

A N E X A 4 . 1Nume Prenume: BÎNZAR TUDORGradul didactic: ConferențiarInstituția unde este titular: UNIVERSITATEA POLITEHNICA

Facultatea: MECANICĂ

Departamentul: MATEMATICĂ**L I S T A****lucrărilor științifice în domeniul disciplinelor din postul didactic****A. Teza de doctorat**

Contribuții la studiul unor familii de operatori liniari și mărginiți pe spații Hilbert

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. T. Bînzar, R. D. Ene, M. Lăpădat, Analiză matematică, Calcul diferențial, Culegere de probleme, Ed. Politehnica, 2022.
2. D. Păunescu, R. Negrea, L. Cădăriu, G. Moza, M. Jivulescu, T. Bînzar, C. Arieșanu, C. Lăzureanu, A. Gîrban, O. Bundău, A. Juratoni, C. Hedrea, C. Petrișor, A. Eckstein, N. Lupa, E. Cismaș, Culegere de probleme de matematică pentru examenul de admitere din anul 2024 la UPT, Ed. Politehnica, 2024.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. T. Binzar, F. Pater, On fuzzy spectral radii for fuzzy bounded operators with application to fuzzy Volterra operator, Journal of Mathematical Inequalities, Vol: 18, Issue: 1, Pages: 193-205, PublishedL 2024, DOI: 10.7153/jmi-2024-18-11;
2. T. Binzar, Almost strongly fuzzy bounded operators with applications to fuzzy spectral theory, Fuzzy Sets and Systems, Vol: 444, Pages: 131-143, Published: 2022, DOI: 10.1016/j.fss.2021.11.011;
3. T. Binzar, F. Pater, S. Nadaban, Fixed-Point Theorems in Fuzzy Normed Linear Spaces for Contractive Mappings with Applications to Dynamic-Programming, Symmetry-Basel, Vol: 14, Issue: 10, Article Number: 1966, Published: 2022, DOI: 10.3390/sym14101966;
4. Binzar, Tudor; Pater, Flavius; Nadaban, Sorin, A Study of Boundedness in Fuzzy Normed Linear Spaces, SYMMETRY-BASEL Volume: 11 Issue: 7 Article Number: 923 Published: JUL 2019;
5. Binzar, Tudor; Burdak, Zbigniew; Lazureanu, Cristian; et al., Wold-Slocinski decompositions for commuting isometric triples, JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS Volume: 472 Issue: 2 Pages: 1660-1677 Published: APR 15 2019
6. Binzar, Tudor; Lazureanu, Cristian, Wold-Type Decompositions for a Commutative Pair of Noncommutative Semigroups of Isometries, BULLETIN OF THE MALAYSIAN MATHEMATICAL SCIENCES SOCIETY Volume: 41 Issue: 2 Pages: 1139-1150 Published: APR 2018
7. Szabo, Alexandru; Binzar, Tudor; Nadaban, Sorin; et al., Some Properties of Fuzzy Bounded Sets in Fuzzy Normed Linear Spaces, Conference: International Conference of Numerical Analysis and Applied Mathematics (ICNAAM) Location: Thessaloniki, GREECE Date: SEP 25-30, 2017, INTERNATIONAL

- CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS (ICNAAM 2017) Book Series: AIP Conference Proceedings Volume: 1978 Article Number: 390009 Published: 2018;
8. Szabo, Alexandru; Binzar, Tudor; Nadaban, Sorin; et al., Strict Inclusions between Some Classes of Fuzzy Relations, Conference: International Conference on Numerical Analysis and Applied Mathematics (ICNAAM) Location: Rhodes, GREECE Date: SEP 19-25, 2016;
PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2016 (ICNAAM-2016) Book Series: AIP Conference Proceedings Volume: 1863 Article Number: 430007 Published: 2017
9. Pater, Flavius; Binzar, Tudor, On some dilation theorems for positive definite operator valued functions (vol 228, pg 109, 2015), STUDIA MATHEMATICA Volume: 237 Issue: 1 Pages: 99-100 Published: 2017;
10. T. Bînzar, C. Lăzureanu, On the Wold – type decompositions for n – tuples of commuting isometric semigroups, Filomat , Vol.31 , 2017 , pp. 1251 – 1264 DOI: 10.2298/FIL1705251B;
11. C. Lăzureanu, T. Bînzar, Symmetries and properties of the Energy – Casimir mapping in the Ball – Plate Problem, Advances in Mathematical Physics , Vol.2017 , Article ID 5164602 , 13 pages , DOI: 10.1155/2017/5164602;
12. T. Bînzar, F. Pate , S. Nădăban, On fuzzy normed spaces , Journal of Nonlinear Science and Applications , Vol.9, Issue : 9 , 2016 , pp. 5488 – 5496 , WOS: 000392092200016;
13. T. Bînzar, C. Lăzureanu, On a new chaotic system , Mathematical Methods in the Applied Sciences, Vol.38, Issue : 8 , 2015 , pp. 1631 – 1641 , DOI: 10.1002/mma.3174;
14. C. Lăzureanu, T. Bînzar, Symmetries of some classes of dynamical systems , Journal of Nonlinear Mathematical Physics, Vol.22 , Issue: 2 , 2015 , pp.265 – 274 , WOS: 000350561600007;
15. C. Lăzureanu, T. Bînzar , On some properties and symmetries of the 5 – Dimensional Lorenz System, Mathematical Problems in Engineering, Vol.2015, Article ID 438694, 7 pages, DOI: 10.1155/2015/438694;
16. F. Pater, T. Bînzar, On some dilation theorems for positive definite operator valued functions, Studia Mathematica, Vol.228 , Issue: 2 , 2015 , pp. 109 – 122 , DOI: 10.4064/sm228-2-2;

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E. Brevete obținute în întreaga activitate

1.

Data: 06.11.2025

Semnătura:

(Pentru următoarele cadre didactice se adaugă Anexele 5.2, 5.3. etc.)

Universitatea Politehnica Timișoara

Departamentul de Matematică

Asist. dr. Cristiana Căplescu

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

B. Titlul tezei de doctorat: “*Metode și algoritmi de prelucrare a semnalelor de vibrații*”.

C. Conducător științific: prof.dr.ing. Cioara Titus

D. Domeniul de doctorat: Inginerie mecanică

E. Cărți și capitole în cărți publicate în ultimii 10 anii

F. Lucrări indexate ISI/BDI publicate în ultimii 10 anii

G. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

- Selecție cu maximum 20 lucrări în volume de conferințe

Nr.	Anul	Luna	Autor(i)	Titlu articol	Revista/conferința
1.	2018	1-3, November	Lăzureanu Cristian, Căplescu Cristiana	On a deformed version of the T system	Proceedings of the XV-th International Conference on Mathematics and its Applications, Politehnica University of Timișoara, ISSN 1224-6069, 7 pag.
2.	2019		Căplescu Cristiana , Lăzureanu Cristian	Stability and bifurcations in a deformed version of the T system	Annals of the Tiberiu Popoviciu Seminar of Functional Equations, Approximation and Convexity Vol. 16, 2018 (2019)
3.	2020		Lăzureanu Cristian, Căplescu Cristiana	Stabilization of the T system by an integrable deformation	ITM Web of Conferences 34, 03009, Third ICAMNM, Craiova, 2020
4.	2025		Căplescu Cristiana , Cho Jinyoung, Lăzureanu Cristian	On a six-dimensional Shimizu-Morioka system	Scientific Bulletin of The Politehnica University of Timisoara, Transactions on Mathematics&Physics, Vol. 70(84), Issue 1, 2025

E. Brevete obținute în întreaga activitate

Data: 24.02.2026

Semnătura: Asist. dr. Cristiana CĂPLESCU

A N E X A 4 . 1

Nume Prenume: Lăpădat Marioara

Gradul didactic: asistent universitar

Instituția unde este titular: UNIVERSITATEA POLITEHNICA TIMISOARA

Departamentul: Matematică

L I S T A**lucrărilor științifice în domeniul disciplinelor din postul didactic****A. Teza de doctorat**

M. Lapadat, “*Trichotomie pentru sisteme liniare discrete in spatii Banach*”, Profesor coordonator – Prof.univ.dr. emerit Mihail Megan, 2015, Universitatea de Vest Timisoara, Facultatea de Matematica si Informatica

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. **Remus-Daniel Ene, Nicolina Pop, Marioara Lapadat, Luisa Dungan** Approximate Closed-Form Solutions for the Maxwell-Bloch Equations via the Optimal Homotopy Asymptotic Method, *Mathematics* **2022**, 10(21), 118.

2. Remus-Daniel Ene, Nicolina Pop, Marioara Lapadat, Approximate Closed-Form Solutions for the Rabinovich System via the Optimal Auxiliary Functions Method, *Symmetry*, Volume 14, Issue 10, id.2185, (2022).

3. CĂRUNTU B, BOTA C, ȚUCU D, **LĂPĂDAT M.**, PASCA M. S., A Least Squares Differential Quadrature Method for a Class of Nonlinear Partial Differential Equations of Fractional Order, *MATHEMATICS* , Volume 8, Issue 8, pages1336-1348, DOI:10.3390/math8081336, Published 2020

4. BOTA C, CĂRUNTU B, PASCA M. S., ȚUCU D., **LĂPĂDAT M.**, Least Squares Differential Quadrature Method for the generalized Bagley-Torvik fractional differential equation, *Mathematical Problems in Engineering*, Vol 2020, 7 pages, DOI: 10.1155/2020/4806387, Published (2020)

5. CĂRUNTU B., BOTA C., **LĂPĂDAT M**, PASCA M. S., Polynomial Least Squares Method for Fractional Lane - Emden Equations, *Symmetry*, 11(4), 479; DOI: 10.3390/sym11040479, pp 479-485, Published 2019
6. Bota, B. Căruntu, M.S. Pașca, **M. Lăpădat**, Optimal Control Based on the Polynomial Least Squares Method, *Mathematical Problems in Engineering*, Volume 2018, Article ID 9454160, 8 pages, <https://doi.org/10.1155/2018/9454160>
7. **M. Lăpădat**, T. Ceașu, M. Megan, Lyapunov functions for h-dichotomy of linear discrete-time systems, *Bulletin of Mathematical Analysis and Applications*, Volume 8, Issue 4(2016), Pages 1-11, ISSN: 1821-1291.
8. **M. Lăpădat**, M. Pașca, Approximate solutions of the nonlinear standard Lane-Emden equation using the LSDQ method, *International Conference of Numerical Analysis and Applied Mathematics 2018 (ICNAAM 2018)*, Grecia.
9. C. L. Mihiț, **M. Lăpădat**, Discrete criteria for the uniform (h; k)-splitting of skew-evolution semiflows, *International Conference of Numerical Analysis and Applied Mathematics 2017 (ICNAAM 2017)*, AIP Conference Proceedings **1978**, 390011 (2018); <https://doi.org/10.1063/1.5043995>
10. **M.S.Pasca, M.Lăpădat**, Approximate solutions by the least squares differential quadrature method for nonlinear heat transfer problems, *Bull. Științific Univ. Politeh. Timișoara*, Volume 64(78), Issue 1(2019), Pages 4-13.
11. **M.S.Pasca, M.Lăpădat**, Solving fractional ordinary differential equation using PLSM, *Bull. Științific Univ. Politeh. Timișoara*, Volume 63(77), Issue 1(2018), Pages 41-48.
12. **M.S.Pasca, M.Lăpădat**, Optimal control problems based on least squares differential quadrature method, *Proceedings of the XVth International Conference on Mathematics and its Applications*, Univ. Politeh. Timișoara, November, 1-3, 2018, Pages 137-144.
13. **M. Lăpădat**, C. L. Mihiț, On uniform polynomial dichotomy of skew-evolution semiflows on the half-line, *Bull. Științific Univ. Politeh. Timișoara*, Volume 62(76), Issue 1(2017), Pages 54-61.
14. **M. Lăpădat**, On (a,b,c)-trichotomy and (d,b)-dichotomy of linear discrete-time systems in Banach spaces, *International Journal of Applied Mathematics*, Vol. 104 (2015), 324-339.

15. **M. Lăpădat**, R. L. Lolea, T. Ceașu, On (a,b,c)-trichotomy for noninvertible linear discrete-time systems, *Analele Universității de Vest din Timișoara, Seria Matematică – Informatică*, fasc. 2 (2015), 145-155.
16. M. G. Babuția, M. I. Kovacs, **M. Lăpădat**, M. Megan, Discrete (h,k) - dichotomy and remarks on the Boundedness of the projections, *Journal of Operators*, Vol. 2014, Article ID 196345.
17. **M. Lăpădat**, Trichotomy for abstract evolution operators, *Bull. Științific Univ. Politeh. Timișoara, Seria Matematică-Fizică*, fasc. 1 (2014), 19-27.

18. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)
- Reviste

1. **M.S.Pasca, M.Lăpădat**, Approximate solutions by the least squares differential quadrature method for nonlinear heat transfer problems, *Bull. Științific Univ. Politeh. Timișoara*, Volume 64(78), Issue 1(2019), Pages 4-13.
2. **M.S.Pasca, M.Lăpădat**, Solving fractional ordinary differential equation using PLSM, *Bull. Științific Univ. Politeh. Timișoara*, Volume 63(77), Issue 1(2018), Pages 41-48.
3. **M.S.Pasca, M.Lăpădat**, Optimal control problems based on least squares differential quadrature method, *Proceedings of the XVth International Conference on Mathematics and its Applications*, Univ. Politeh. Timișoara, November, 1-3, 2018, Pages 137-144.
4. **M. Lăpădat**, C. L. Mihiț, On uniform polynomial dichotomy of skew-evolution semiflows on the half-line, *Bull. Științific Univ. Politeh. Timișoara*, Volume 62(76), Issue 1(2017), Pages 54-61.
5. **M. Lăpădat**, On (a,b,c)-trichotomy and (d,b)-dichotomy of linear discrete- time systems in Banach spaces, *International Journal of Applied Mathematics*, Vol. 104 (2015), 324-339.
6. **M. Lăpădat**, R. L. Lolea, T. Ceașu, On (a,b,c)-trichotomy for noninvertible linear discrete-time systems, *Analele Universității de Vest din Timișoara, Seria Matematică – Informatică*, fasc. 2 (2015), 145-155.
7. M. G. Babuția, M. I. Kovacs, **M. Lăpădat**, M. Megan, Discrete (h,k) - dichotomy and remarks on the Boundedness of the projections, *Journal of Operators*, Vol. 2014, Article ID 196345.
8. **M. Lăpădat**, Trichotomy for abstract evolution operators, *Bull. Științific Univ. Politeh. Timișoara, Seria Matematică-Fizică*, fasc. 1 (2014), 19-27.

- Selecție cu maximum 20 lucrări în volume de conferințe

9. **M. Lăpădat**, M. Pașca, Approximate solutions of the nonlinear standard Lane-Emden equation using the LSDQ method, International Conference of Numerical Analysis and Applied Mathematics 2018 (ICNAAM 2018).
10. **M. Lăpădat**, M. Razzaghi, M. Pașca, Numerical solution of the first order nonlinear differential equations with the mixed nonlinear conditions by using PLSM (comparison with Bernstein polynomials method), 1 st International Conference on Computational Methods and Applications in Engineering, 2018, Timisoara.
11. M. Pașca, **M. Lăpădat**, M. Razzaghi, **M. Lăpădat**, Approximate solutions for the Bagley-Torvik fractional equation with boundary conditions using the Polynomial Least Squares Method, 1 st International Conference on Computational Methods and Applications in Engineering, 2018, Timisoara.
12. M. Pașca, **M. Lăpădat**, Least Squares Differential Quadrature Method for Optimal control problems, The 15th International Conference on Mathematics and it's Applications – 1-3 November 2018, Timisoara.
13. **M. Lăpădat**, C. L. Mihiț, Discrete criteria for the uniform (h; k)-splitting of skew-evolution semiflows, International Conference of Numerical Analysis and Applied Mathematics 2017 (ICNAAM 2017).
14. L. Mihiț, **M. Lăpădat**, On some asymptotical behaviors of linear time systems in infinite-dimensional spaces, IEEE 10th International Symposium on Applied Computational Intelligence and Informatics (SACI) 2015, Timișoara.
15. R. L. Lolea, **M. Lăpădat**, On (a,b,c)-trichotomy of linear discrete-time systems in Banach spaces, 3rd Int. Conference on Business, Administration and Economics, (ICBAER 2014), Universitatea "Eftimie Murgu" Reșița, 23-25 oct. 2014.
16. **M. Lăpădat**, Comportări asimptotice pentru sisteme liniare discrete în spații Banach, A treia sesiune națională de comunicări științifice a doctoranzilor din Universitatea de Vest din Timișoara, 11 iunie 2013, Timișoara.



Data:
15.06.2026

Semnătura:

A N E X A 4 . 1

Nume Prenume: IRIZOIU OANA-ELENA

Gradul didactic: Sef Lucrari universitar

Instituția unde este titular: Universitatea Politehnica Timisoara

Facultatea: Inginerie Electrica si Energetica

Departamentul: Bazele Fizice ale Ingineriei

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Modelare si prognoza in conversia fotovoltaica

B. Cărți si capitole în cărți publicate în ultimii 10 ani

1. **Oana Irizoiu**, Floricica Barvinschi – Fizica. Aplicatii, ISBN 978-973-638-625-1, Editura Orizonturi Universitare, 2023.
2. Andreea Sabadus, **Oana Irizoiu**, Dragos Tatomirescu, Fizica. Aplicatii pentru ingineri, Editura Politehnica, 2024;
3. Dragos Tatomirescu, **Oana Irizoiu**, Sisteme de operare, Editura Politehnica 2024

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Blaga R, Mares O, Paulescu E, Boata R, Sabadus A, Hategan SM, Calinoiu D, Stefu N, Paulescu M, Diffuse fraction as a tool for exploring the sensitivity of parametric clear-sky models to changing aerosol conditions, SOLAR ENERGY, 277, 2024;
2. Sabadus A, Blaga R, Hategan SM, Calinoiu D, Paulescu E, Mares O, Boata R, Stefu N, Paulescu M, Badescu V, A cross-sectional survey of deterministic PV power forecasting: Progress and limitations in current approaches, RENEWABLE ENERGY, 226, 2024;
3. Robert Blaga, Delia Calinoiu, Nicoleta Stefu, Remus Boata, Andreea Sabadus, Eugenia Paulescu, Nicolina Pop, **Oana Mares**, Sorin Bojin, Marius Paulescu - *Quantification of the aerosol-induced errors in solar irradiance modeling*, Meteorology and Atmospheric Physics 133:1395–1407 (2021)
4. Andreea Cojocar, **Oana Mares**, Dragos Tatomirescu, Alexandra Popescu - *The influence of Marangoni convection and of the external temperature gradient on the temperature fluctuations in a Czochralski solar silicon process*, AIP Conference Proceedings 2218, 040006 (2020)
5. Marius Paulescu, **Oana Mares**, Ciprian Dughir, Eugenia Paulescu – *Nowcasting the Output Power of a PV System*, E3S Web Conferences 61, 00010 (2018)
6. Marius Paulescu, Nicoleta Stefu, Delia Calinoiu, Eugenia Paulescu, Nicolina Pop, Remus Boata, **Oana Mares** - *Ångström–Prescott equation: Physical basis, empirical models and sensitivity analysis*, Renewable and Sustainable Energy Reviews 62, 495-506 (2016).

7. **Oana Mares**, Marius Paulescu, Viorel Badescu - A simple but accurate procedure for solving the five parameter model, Energy Conversion And Management 105, 139-148 (2015);
 8. Delia-Gabriela Calinoiu, Nicoleta Stefu, Marius Paulescu, Gavrilă Trif-Tordai, **Oana Mares**, Eugenia Paulescu, Remus Boata, Nicolina Pop, Angel Pacurar - Evaluation of errors made in solar irradiance estimation due to averaging the Angstrom turbidity coefficient, Atmospheric Research 150, 69-78 (2014);
 9. Marius Paulescu, **Oana Mares**, Eugenia Paulescu, Nicoleta Stefu, Angel Pacurar, Delia Calinoiu, Paul Gravila, Nicolina Pop, Remus Boata - Nowcasting solar irradiance using the sunshine number, Energy Conversion And Management 79, 690-697 (2014);
 10. Dario Costa, **Oana Mares** - Estimation of the Cloud Transmittance from Radiometric Measurements at the Ground Level, AIP Conference Proceedings 1634, 151-155 (2014);
 11. **Oana Mares**, Marius Paulescu, Nicolina Pop - Assessment the accuracy of nowcasting sunshine number, SCIENTIFIC BULLETIN of the POLITEHNICA University of Timisoara, Romania Transactions on MATHEMATICS & PHYSICS, 59, 56-63 (2014);
 12. Angel Pacurar, Nicoleta Stefu, **Oana Mares**, Eugenia Paulescu, Delia Calinoiu, Nicolina Pop, Remus Boata, Paul Gravila, Marius Paulescu - Forecasting hourly global solar irradiation using simple non-seasonal models, Journal of Renewable and Sustainable Energy 5 (6), 063140 (2013);
 13. Marius Paulescu, Nicoleta Stefu, Paul Gravila, Eugenia Paulescu, Nicolina Pop, Delia Calinoiu, Remus Boata, Angel Pacurar, **Oana Mares** - Atmospheric Transmittance Model for Photosynthetically Active Radiation, AIP Conference Proceedings 1564, 188-193 (2013).
- D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)**
- Reviste
 - 1.
 - Selecție cu maximum 20 lucrări în volume de conferințe
 - 1.
- E. Brevete obținute în întreaga activitate**
- 1.

Data: 27.04.2026

Semnătura:

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume: UȚU Ion-Dragoș

Gradul didactic: Profesor

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: Mecanică

Departamentul: Ingineria Materialelor și Fabricației (IMF)

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Contribuții la îmbunătățirea la oxidare a straturilor MCrAlY prin retopire superficială cu fascicul de electroni, Știința și Ingineria Materialelor, Universitatea “Politehnica” din Timișoara, 2005, nr. 1223/03.06.2006

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Cosmin Codrean, Ion-Dragoș Uțu, Dragoș Buzdugan, Viorel-Aurel Șerban, Materiale metalice avansate-aplicații practice, Editura Politehnica Timisoara, 2016, 978-606-554-843-5, 141p.
2. Ion-Dragoș Uțu, Ion Mitelea, Introducere în Ingineria Suprafețelor, Editura Politehnica Timisoara, 2018, 978-606-35-0228-6, 220p
3. C. Codrean, Ion Dragoș Utu, C. Opris, D. Buzdugan, R. Muntean, Elemente de Stiinta Materialelor – Aplicatii, Editura Politehnica Timisoara, 2022, 978-606-35-0440-2, 131p

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. I. Hulka, V.A. Serban, **I.D Utu**, N. Duteanu, A Pascu, I. Roata, I. Maior, WEAR RESISTANCE OF LASER CLADDING NiCrBSi COMPOSITE COATINGS, REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS, Volume: 46 Issue: 1 Pages: 49-54, 2016
2. I. Mitelea, I. Bordeasu, **I.D Utu**, O. Karancsi, Improvement of the Cavitation Erosion Resistance of Titanium Alloys Deposited by Plasma Spraying and Remelted by Laser, MATERIALE PLASTICE, Volume: 53 Issue: 1 Pages: 29-33, 2016
3. **D. Utu**, I. Mitelea, S.D. Urlan, C.M. Craciunescu, Transformation and Precipitation Reactions by Metal Active Gas Pulsed Welded Joints from X2CrNiMoN22-5-3 Duplex Stainless Steels, Materials, Vol. 9, Issue 7, pp. 1-15, DOI: 10.3390/ma9070606, iulie 2016
4. I. Mitelea, **I.D. Uțu**, S. Cutean, C.M. Crăciunescu, TIG deposition of Ti on steel substrates using Cu as interlayer, Materials Testing, September, Vol. 58, No. 9 : Pages 725-730, 2016

5. I. Bordeasu, L.M. Micu, I. Mitelea, **I.D. Utu**, L.D. Pirvulescu, N.A. Sirbu, Cavitation Erosion of HVOF Metal-ceramic Composite Coatings Deposited onto Duplex Stainless Steel Substrate, *MATERIALE PLASTICE* Vol. 53, No.4, p. 781-786, 2016
6. I. Mitelea, **I.D. Utu**, S. D. Urlan, C. M. Cra ciunescu, The effect of the solution treatment onto the microstructure and mechanical properties of MAG pulsed welded joints from X2CrNiMoN22-5-3 Duplex stainless steels, *Mat.-wiss. u. Werkstofftech.* 2017, 48, 1040–1048
7. I. Mitelea, I.D Uțu, S.D. Urlan, O. Karancsi, Microstructure characterization and corrosion testing of MAG pulsed duplex stainless steel welds, *Materials Testing* 59 (2017) 7-8
8. I.D Utu, G. Marginean, Effect of electron beam remelting on the characteristics of HVOFsprayed Al₂O₃-TiO₂coatings deposited on titanium substrate, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 526 (2017) 70–75
9. I. Mitelea, I. Bordeasu, N. Varzaru, **I.D. Utu**, Research of the Thermal Gradient and Quality of Welded Joints from PVC Thermoplastics Foils at High Frequency Symmetric Welding, *MATERIALE PLASTICE*,54, No. 3, 2017
10. A. Szabo, I. Bordeasu, **I.D. Utu**, I. Mitelea, In vitro Behaviour of Alumina-Hydroxiapatite Composites Coatings, *REV.CHIM.(Bucharest)*, 69, No. 6, 2018
11. :I. Mitelea, I.D. Utu, O. Karancsi, S.D. Urlan, C.M.Craciunescu, Investigation of the microstructure of dissimilar welds in duplex stainless steel and low alloyed steel, *MATERIALS TESTING*,volume: 61 Issue: 2 Pages: 120-124, 2019
12. M. Vodă, C. Codrean, D.Chicot,V.A. Șerban, D. Uțu, E. Linul, D. Buzdugan, Characterization of brazed joints by electrical resistance spot brazing with Ni-based amorphous self-flux alloys, *Journal of Manufacturing Processes*,Volume 37, Pages 617-627, 2019.
13. A. Szabo, **I.D.Utu**, I Hulka, I. Bordeasu, I. Mitelea, Microstructure and Wear Behaviour of Ti Reinforced HVOF Coating, *IOP Conf. Series: Materials Science and Engineering* 416 (2018) 012007 doi:10.1088/1757-899X/416/1/012007
14. **I.D. Utu**,I. Mitelea, I. Bordeasu, T. Bena, Investigations Concerning the Corrosion and Ultrasonic Cavitation Erosion of 316L Coatings Deposited HVOF on Nodular Cast Iron, *Revista de Chimie*, Vol. 70(5), 2019, pp. 1625-1631;
15. I. Mitelea, T. Bena ,I. Bordeasu, **I.D. Utu**, C.M. Craciunescu, Enhancement of Cavitation Erosion Resistance of Cast Iron with TIG Remelted Surface, *Metallurgical and Materials Transactions A*, Vol.50A (8), 2019, pp. 3767-377;
16. I. Mitelea, **I.D. Utu**, O. Karancsi, S.D. Urlan, C.M. Craciunescu, Investigation of the microstructure of dissimilar welds in duplex stainless steel and low alloyed steel, *Materials Testing*, Volume: 61 Issue: 2, 2019, pp. 120-124;
17. M. Voda,C. Codrean, D. Chicot,V.A. Serban, **D. Utu**, E. Linul,D. Buzdugan, Characterization of brazed joints by electrical resistance spot brazing with Ni-based amorphous self-flux alloys, *Journal of Manufacturing Processes*, Vol. 37, 2019, pp. 617-627;
18. D. Simionescu, I. Mitelea, M. Burcă, **D. Utu**, Cold bending characteristics of MAG pulse welding of API 5LX65 thermo mechanical treated steel, 28th International Conference on Metallurgy and Materials, 2019, pp. 532-537;
19. C.P. Lucian, I. Mitelea, **I.D. Utu**, C.M Craciunescu, Effects of post weld heat treatment (PWHT) on mechanical properties and microstructure of EN AW-6082 T6 aluminium alloy, 28th International Conference on Metallurgy and Materials, 2019, pp. 1247-1252;

20. I. Mitelea, I. Bordeasu, F. Frant, **I.D. Utu**, Effect of heat treatment on corrosion and ultrasonic cavitation erosion resistance of AlSi10MnMg alloy, *Materials Testing*, Vol. 62, Iss. 9, 2020, pp. 921-926;
21. **I.D. Utu**, R. Muntean, I. Mitelea, Corrosion and Wear Properties of Zn-Based Composite Coatings, *Journal of Materials Engineering and Performance*, Vol. 29, Iss. 8, 2020, pp. 5360-5365
22. R.D. Vasiliu, S.D. Porojan, M.I. Birdeanu, **I.D. Utu**, The Effect of Thermocycling and Surface Treatments on the Surface Roughness and Microhardness of Three Heat-Pressed Ceramics Systems, *Crystals*, Vol. 10, Iss. 3, Article Number: 160;
23. I. Mitelea, D. Simionescu, C.M. Craciunescu, **I.D. Utu**, Fracture toughness of MAG welds in pulsed current of API 5L AX65M thermomechanical treated steel, *Materials Testing*, Vol. 62, Iss. 3, 2020, pp. 304-310;
24. I. Hulka, **I.D. Utu**, V.A. Serban, P. Negrea, F. Lukac, T. Chraska, Effect of Ti addition on microstructure and corrosion properties of laser cladded WC-Co/NiCrBSi(Ti) coatings, *Applied Surface Science*, Vol. 504, Article Number: 144349, 2020;
25. Iosif Hulka, **Ion D. Utu**, Diana Avram, Mircea L. Dan, Alexandru Pascu, Elena M. Stanciu, Ionut C. Roata, Influence of the Laser Cladding Parameters on the Morphology, Wear and Corrosion Resistance of WC-Co/NiCrBSi Composite Coatings, *Materials* 2021, 14, 5583.
26. Ion Mitelea, Corneliu Marius Crăciunescu, Ciprian Pavel Lucian, **Ion Dragoș Uțu**, Microstructure and mechanical properties of 6082-T6 aluminum alloy–zinc coated steel brazewelded joints, *Materials Testing* 63 (2021) 8;
27. **Ion-Dragoș Utu**, Iosif Hulka, Norbert Kazamer, Albert Titus Constantin, Gabriela Marginean, Hot-Corrosion and Particle Erosion Resistance of Co-Based Brazed Alloy Coatings, *Crystals* 2022, 12, 762.
28. Ion Mitelea, Ilare Bordeasu, Cosmin Belin, **Ion-Dragoș Utu**, Corneliu Marius Craciunescu, Cavitation Resistance, Microstructure, and Surface Topography of Plasma Nitrided Nimonic 80 A Alloy, *Materials* 2022, 15, 6654.
29. Norbert Kazamer , Roxana Muntean, **Ion-Dragoș Utu**, Gabriela Marginean, Considerations on the Wear Behavior of Vacuum-Remelted ZrO₂-Reinforced Self-Fluxing Ni-Based Thermally Sprayed Alloys, *Materials* 2023, 16, 5183.
30. Daniel Mutascu, Olimpiu Karancsi, Ion Mitelea, Corneliu Marius Craciunescu, Dragoș Buzdugan, Ion-Dragoș Utu, Pulsed TIG Cladding of a Highly Carbon-, Chromium-, Molybdenum-, Niobium-, Tungsten- and Vanadium-Alloyed Flux-Cored Wire Electrode on Duplex Stainless Steel X2CrNiMoN 22-5-3, *Materials* 2023, 16, 4557.
31. Iasmina-Mădălina Anghel, **Ion-Dragoș Uțu**, Alexandru Pascu, Iosif Hulka, Dino Horst Woelk, Gabriela Mărginean, Microstructure and properties of Co based laser cladded composite coatings, *Materials Testing* 2024; <https://doi.org/10.1515/mt-2023-0362>
32. Ion Mitelea, Daniel Mutascu, Olimpiu Karancsi, Corneliu Marius Crăciunescu, Dragoș Buzdugan **Ion-Dragoș Utu**, Microstructural Investigations of Weld Deposits from Manganese Austenitic Alloy on X2CrNiMoN22-5-3 Duplex Stainless Steel, *Appl. Sci.* 2024, 14, 3751.

33. Dino Woelk, Julian Esler, **Ion-Dragos Utu**, Gabriela Marginean, Comparative Corrosion and Wear Behaviors of Cermet Coatings Obtained from Conventional and Recycled Powders, , Appl. Sci. 2025, 15, 7654.
34. Ion Mitelea, Ilare Bordeas, Eduard Riemschneider, Corneliu Marius Crăciunescu, **Ion-Dragoș Uțu**, Effect of annealing for stress relief on the surface integrity of gray cast iron with lamellar graphite after cavitation erosion, Materials Testing 2025; <https://doi.org/10.1515/mt-2025-0044>
35. Iasmina-Mădălina Anghel, Alexandru Pascu, Iosif Hulka, Dino Horst Woelk, **Ion-Dragos Utu**, Gabriela Mărginean, Characterization of Cobalt-Based Composite Multilayer Laser-Cladded Coatings, Crystals 2025, 15, 970, <https://doi.org/10.3390/cryst15110970>
36. Roxana Muntean, **Ion-Dragos Utu**, Surface Modification by Plasma Electrolytic Oxidation of Friction Surfacing 4043 Aluminum-Based Alloys Deposited onto Structural S235 Steel Substrate, Materials 2025, 18, 3302, <https://doi.org/10.3390/ma18143302>.
37. Daniel Foltut, **Ion-Dragos Utu**, Viorel-Aurel Serban, Tribological Performance of EPDM and TPV Elastomers Against Glass Fiber-Reinforced Polyamide 66 Composites, Materials 2025, 18, 2515, <https://doi.org/10.3390/ma18112515>

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

- Selecție cu maximum 20 lucrări în volume de conferințe

E. Brevete obținute în întreaga activitate

1. 1. Șerban V.A, Codrean C., D. Buzdugan, **I.D. Uțu**, Produs de ecranare magnetică din aliaj amorf și procedeu de obținere a acestuia, UPT, Nr. 126021/ 30.08.2012

Data: 15.06.2026

Semnătura:

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume: Petculescu Iasmina-Mădălina

Gradul didactic: Asistent Universitar

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: de Mecanică

Departamentul: Ingineria Materialelor și Fabricației

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Cosmina Florica, Ion Vetreș, Carmen Opreș, Gavrilă Trif-Tordai, Iasmina-Mădălina Petculescu, Mădălina-Ileana Zoț, Timitei-Bogdan Bacoș, Luisa-Izabel Dungan, Nicolae Loniș, Adrian Cioablă - Încercări experimentale. Aplicații practice, Editura Politehnica, 2025, ISBN 978-606-35-0667-3

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. **I.M. Anghel**, A. Pascu, I. Hulka, D.H. Woelk, I.D. Utu, G. Marginean, *Characterization of Cobalt-Based Composite Multilayer Laser-Cladded Coatings*, Crystals, Volume 15, Issue 11, DOI10.3390/cryst15110970, 2025, WOS:001623613200001;
2. D. Utu, R. Muntean, **I.M. Anghel (Petculescu)**, I. Hulka, I.D. Utu, *Preparation and Characterization of Co-Diamond Composite Coatings Obtained in a Single-Step Hybrid Electrophoretic Deposition Process*, MATERIALS, Volume 18, Issue 6, DOI10.3390/ma18061294, 2025, WOS:001452488800001;
3. B.D. Cioroaga, A.V. Socalici, V.G. Cioata, E. Linul, I. Hulka, **I.M. Anghel**, *Influence of Submerged Arc Welding Current Intensity on the Mechanical Properties and Microstructure of Pressure Vessel P355N Steel*, MATERIALS, Volume 17 Issue 14, DOI10.3390/ma17143520, 2024, WOS:001281622800001;
4. I.D. Utu, **I.M. Anghel (Petculescu)**, I. Hulka, G. Marginean, *Design, Manufacturing, Microstructure, and Surface Properties of Brazed Co-Based Composite Coatings Reinforced with Tungsten Carbide Particles*, CRYSTALS, Volume 14, Issue 6, DOI10.3390/cryst14060576, 2024, WOS:001254415300001;
5. **I.M. Anghel (Petculescu)**, I.D. Utu, A. Pascu, I. Hulka, D.H. Woelk, G. Marginean, *Microstructure and properties of Co based laser cladded composite coatings*, MATERIALS TESTING, Volume 66, Issue 5, Page 665-674, DOI10.1515/mt-2023-0362, 2024, WOS:001184489000001;

6. **I.M. Anghel (Petculescu)**, D. Utu, I. Mitelea, A.T. Constantin, Utu, I.D. Utu, *Surface Characteristics of Vacuum-Plasma-Sprayed Reinforced Stainless Steel Coatings with TiC Particles*, COATINGS, Volume 14 Issue 3, DOI10.3390/coatings14030289, 2024, WOS:001191429700001;
7. B.D. Cioroaga, V.G. Cioata, A.V. Socalici, E. Linul, I. Hulka, **I.M. Anghel**, *Optimization of Submerged Arc Welding through Voltage Variation to Achieve Superior Mechanical Properties Using P355N Base Material*, JOURNAL OF ENGINEERING SCIENCES-UKRAINE, Volume 11 Issue 2 Page C42-C56, DOI10.21272/jes.2024.11(2).c4, 2024, WOS:001388468800006.
8. Rada Maria, **Anghel Iasmina – Madalina**, Riviș Adrian, Cozma Antoanela, Muselin Florin, Oprinescu Claudia Izabela, Popescu Georgeta – Sofia, Velciov Ariana – Bianca. Dried figs as sources of essential microelements. PROCEEDINGS OF THE 27st International Symposium on Analytical and Environmental Problems, Szeged, Hungary, Publisher University of Szeged, 2021, pg.359-361. ISBN 978-963-306-835-9.
9. Ariana – Bianca Velciov, Adrian Riviș, Dacian Lalescu, Georgeta Sofia Popescu, Antoanela Cozma, Andreea Annemarie Kiss, Andrei Marius Gherman, **Iasmina Madalina Anghel**, Roxana Elena Simescu, Maria Rada. Determination of some nutritional parameters of dark chocolate. Journal of Agroalimentary Processes and Technologies 2021, 27(3), 271-276. ISSN: 2069-0053 (print) (former ISSN: 1453-1399), Agroprint; ISSN (online):2068-9551. <http://www.japt.tpa.usab-tm.ro/>. Index IFIS. CAS ref; 163659; Food Science Central - from the publishers of FSTA; CABI; EVISA; Index Copernicus.
10. Ariana – Bianca Velciov, Adrian Riviș, Dacian Lalescu, **Iasmina Madalina Anghel**, Milan Velimirovici, Georgeta Sofia Popescu, Daniela Stoin, Dana Velimirovici, Andrei Marius Gherman, Mihaela Eugenia Simescu, Maria Rada. Evaluation of some nutritional parameters of dried figs. Journal of Agroalimentary Processes and Technologies 2021, 27(2), 195-202. ISSN: 2069-0053 (print) (former ISSN: 1453-1399), Agroprint; ISSN (online):2068-9551. <http://www.japt.tpa.usab-tm.ro/>. Index IFIS. CAS ref; 163659; Food Science Central - from the publishers of FSTA; CABI; EVISA; Index Copernicus

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E. Brevete obținute în întreaga activitate

1.

Data:

Semnătura:

A N E X A 4 . 1

Nume Prenume: **Sălcianu Cornelia Laura**

Gradul didactic: Șef lucrări

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: Mecanică

Departamentul: Mecatronică

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat Curgerea în vanele fluturi și eroziunea prin cavitație a componentelor din oțeluri inoxidabile austenitice, Universitatea Politehnica Timișoara, 2017

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. I. Bodeașu, C. Ghera, **C. L. Sălcianu**, C.D. Stroiță, "Elemente de proiectare și tehnologie de fabricație a reperelor mașinilor și sistemelor hidro-pneumatice", Editura Politehnica Timișoara, ISBN 978-606-35-0354-2, 2020
2. E.S. Zăbavă, **C.L. Sălcianu**, M.A. Pașca "Pași de modelare în CAD. Aplicații în Catia V5" Editura Politehnica Timișoara, ISBN 978-606-35-0534-8, 2023
3. C. Ghera, I. Bodeașu, A.N. Luca, **C.L. Sălcianu**, "Acționări pneumatice", Editura Politehnica Timișoara, ISBN 978-606-35-0605-5, 2024

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. I. Bordeasu, M.O. Popoviciu, I. Mitelea, L.M. Micu, O.V. Oanca, C. Bordeasu, **L.C. Sălcianu**, C. Ghera, „Cavitation erosion resistance of AMPCO 45 bronze with heat treatments”, Hidraulica Magazine of Hydraulics Pneumatics Tribology Ecology Sensorics Mechatronics, nr.2/2014, pp.53-61, 2014
2. I. Bordeasu, M.O. Popoviciu, L.M. Micu, **L. Sălcianu**, C. Bordeasu: „Cavitation erosion researches upon two AMPCO bronzes”, Machine Design, vol. 6, No.3, pp.97-102, 2014
3. C. Ghera, I. Bordeasu, **L. Sălcianu**, S.T. Duma, S.E. Katona, A. Punga, L.M. Micu, L.F. Pascu, „Considerations regarding the behavior to cavitation erosion of two carbon alloy stainless steels used in manufacturing of hydraulic equipment drawers of command, adjustment and distribution”, HIDRAULICA—Magazine of Hydraulics Pneumatics Tribology Ecology Sensorics Mechatronics, București, România, vol. 1, pp. 25-31, 2015
4. L.M. Micu, I. Bordeasu, M.O. Popoviciu, O.V. Oancă, **L.C. Sălcianu**, C. Ghera, I. Anton, „Researches upon Cavitation Erosion Behavior of some Stainless Steels with Different Structures”, HIDRAULICA Magazine of Hydraulics Pneumatics Tribology Ecology Sensorics Mechatronics, vol. 4, pp. 46-54, 2015

5. **C.L. Sălcianu**, I. Bordeasu, I. Mitelea, C.M. Crăciunescu, „Effect solution treatment temperature upon the cavitation erosion resistance of X5CrNi18-10 stainless steel”, *Advanced Materials Research*, vol. 1111, pp. 116-120, 2015
6. **C.L. Sălcianu**, I. Bordeasu, I. Mitelea, C.M. Crăciunescu, “Mechanical hardening and resistance to cavitation erosion of the austenitic stainless steels with varying proportions of delta ferrite”, *Advanced Materials Research*, vol. 1111, pp. 127-132, 2015
7. L.M. Micu, I. Bordeasu, M.O. Popoviciu, M. Popescu, D. Bordeasu, **L.C. Sălcianu**: „Influence of volumic heat treatments upon cavitation erosion resistance of duplex X2CrNiMoN 22-5-3 stainless steels” *International Conference on Applied Science IOP Conference Series-Materials Science and Engineering*, Volume: 85, DOI: 10.1088/1757-899X/85/1/012019, OCT 02-04, 2014, Hunedoara, ROMANIA, 2015
8. **C.L. Sălcianu**, I. Bordeasu, I. Mitelea, C.M. Crăciunescu, „Duration of the austenitization and the cavitation erosion resistance to stainless steel X5CrNi18-10 ”*METAL 2015 - 24th International Conference on Metallurgy and Materials*, Brno, Czech Republic, May 23-25, pp. 839-844, 2015
9. I. Bordeasu, I. Mitelea, **L. Sălcianu**, C.M. Crăciunescu, “Cavitation erosion mechanisms of solution treated X5CrNi18-10 stainless steels”, *ASME Journal of tribology*, vol.138, issue 3, pp. 031102, July, 2016
10. **C.L. Sălcianu**, I. Bordeasu, I. Mitelea, C.M. Crăciunescu, „Gas nitriding and cavitation erosion resistance of X5CrNi18-10 stainless steel”, *METAL 2016 - 25th International Conference on Metallurgy and Materials*, Czech Republic, May 25-27, pp. 843-848, 2016
11. I. Bordeasu, M.O. Popoviciu, I. Mitelea, **L.C. Sălcianu**, D. Bordeasu, S.T. Duma, A. Iosif, „Researches upon the cavitation erosion behaviour of austenite steels”, *International Conference on Applied Science IOP Conference Series-Materials Science and Engineering*, JUN 03-05, 2015, Wuhan, PEOPLES R CHINA, Volume: 106, DOI: 10.1088/1757-899X/106/1/012001, 2016
12. I. Bordeasu, M.O. Popoviciu, C. Ghera, **L.C. Sălcianu**, L.M. Micu, C.E. Podoleanu, „Cavitation erosion behavior of the steel 17CrNiMo6”, *Machine design*, vol. 8, nr. 4, Novi Sad, pp. 149-154, 2016
13. Bordeasu, M.O. Popoviciu, **L.C. Sălcianu**, C. Ghera, L.M. Micu, R. Bădăraș, A. Iosif, L.D. Pirvulescu, C.E. Podoleanu: „A new concept for stainless steels ranking upon the resistance to cavitation erosion”, *International Conference on Applied Science IOP Conference Series-Materials Science and Engineering*, vol. 163, 2017
14. I. Bordeasu, **C.L. Sălcianu**, M.O. Popoviciu, I. Mitelea, “Cavitation Erosion Resistance of Laser Beam Nitride Layers of X5CrNi18-10 Stainless Steel”, *Revista de Chimie*, nr 2, pp.708-713, 2019
15. I. Lazar, **C.L. Sălcianu**, I. Bordeasu, M.O. Popoviciu, M. Hlusu, L.D. Pirvulescu, G. Malaimare, R. Badarau, “Contributions for increasing the CuZnPb brass durability to cavitation erosion”, *International Conference on Applied Science IOP Conference Series-Materials Science and Engineering*, vol. 1426, 2020
16. **C.L. Sălcianu**, I. Bordeasu, N.A. Sîrbu, R. Bădăraș, G. Mălaimare, M. Hlusu, „Evaluation of the cavitation resistance of ICONEL 718, in delivered and respectively heat treated condition”, *Advanced Materials Research*, ISSN: 1662-8985, Vol. 1157, pp 47-51, 2020

17. **C.L. Salcianu**, I. Bordeasu, , M. Hluscu, L.D. Pirvulescu, D. Ostoia, O.V. Oanca, „Assessment of the cavitation resistance of stainless steel GX5CrNi18-10, subjected to thermal sensitization based on average durability”, *Advanced Materials Research*, ISSN: 1662-8985, Vol. 1157, pp 52-57, 2020
18. Lazar I, **Salcianu C.L.**, Bordeasu I., Popoviciu M, Hluscu M, Pirvulescu LD, Malaimare G, Badarau R., „Contributions for increasing the CuZnPb brass durability to cavitation erosion”, *International Conference on Applied Sciences Journal of Physics: Conference Series* 1426 012015I OP Publishingdoi:10.1088/1742-6596/1426/1/012015, 2020
19. Lazar I., Bordeasu I., Mitelea I., Pirvulescu L.D, **Salcianu C.L.**, Popoviciu M.O. „The behavior to cavitation erosion of CuSn12-C bronze structures, as obtained by in-depth heat treatments”, *Journal of Physics*, ISSN:1742-6588, vol 1781(1), pp. 012005, 2021
20. I. Bordeasu ,C. Ghera, D. Istrate, **L.C. Salcianu**, B. Ghiban, D. V. Bazavan, L. M. Micu, D. C. Stroita, A. Suta, I. Tomoiaga, A.N. Luca ,, Resistance and behavior to cavitation erosion of semi-finished aluminum alloy 5083,, *HIDRAULICA Magazine of Hydraulics Pneumatics Tribology Ecology Sensorics Mechatronics*, vol.4, pp 17-24, 2021
21. D. Istrate, C. Ghera, **L. Salcianu**, I. Bordeasu , B. Ghiban, D. V. Bazavan, L. M. Micu, D. C. Stroita, D. Ostoia, ,, Heat Treatment Influence of Alloy 5083 on Cavitation Erosion Resistance,, *HIDRAULICA Magazine of Hydraulics Pneumatics Tribology Ecology Sensorics Mechatronics*, ISSN 1453 – 7303, vol. 3, pp 15-25, 2021
22. **L.C. Sălcianu**, I.Bordeașu, L.M.Micu, C.Ghera, ,, New results regarding the cavitation destruction behavior of heat-treated CuSn12-C bronze with different parameters,, *Innovative Technologies for Joining Advanced Materials TIMA21*, <http://www.isim.ro/tima/>, 2021
23. C.Ghera, **L.C. Sălcianu**, I.Bordeașu, L.M.Micu, ,, New results regarding the cavitation destruction behavior of heat-treated CuZn39Pb3 brass with different parameters,, *Innovative Technologies for Joining Advanced Materials TIMA21*, <http://www.isim.ro/tima/>, 2021
24. D. Istrate, B.G. Sbârcea, A.M. Demian, A.D. Buzatu, **L. Salcianu**, I. Bordeasu, L.M. Micu, C. Ghera, B. Florea, B. Ghiban, „Correlation between Mechanical Properties-Structural Characteristics and Cavitation Resistance of Cast Aluminum Alloy Type 5083”, *CRYSTALS*, vol. 12, (1538), 2022
25. **C. L. Salcianu**, C. Ghera, S.T. Duma, D. Alexa, I. Bordeasu, N.A. Sîrbu, C. E. Podoleanu, L. D. Pîrvulescu, D. V. Bazavan, A. Hadar, G. Mălaimare, L. M. Micu, ,, New Results Regarding the Cavitation Destruction Behavior of Heat-Treated CuSn12-C Bronze with Different Parameters,, *Advanced Materials Research*, vol. 1172, pp 9-14, 2022
26. C. Ghera, I. Lazăr, D. Alexa, I. Bordeasu, N.A. Sîrbu, D. Ostoia, M. Hluscu, **C.L. Salcianu**, D.C. Stroita, D.V. Bazavan, M. Sava, L.M. Micu, ,, New Results Regarding the Cavitation Destruction Behavior of Heat-Treated CuZn39Pb3 Brass with Different Parameters,, *Advanced Materials Research*, ISSN 1662 – 8985, Vol. 1172, pp 1-8, 2022
27. . P.O. Odagiu, **C.L. Salcianu**, C. Ghera, A.D. Buzatu, L.M. Micu, A.N. Luca, I. Bordeasu, B. Ghiban „Heat treatment parameters influence on the cavitation resistance of an aluminum alloy”, *University Politehnica OF Bucharest Scientific Bulletin Series B-Chemistry*, vol. 85, pp. 239-252, 2023

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)**- Reviste**

1. L.M. Micu, I. Bordeasu, I. Mitelea, C. Ghera, **L.C. Sălcianu**, "Cercetarea eroziunii cavitaționale asupra oțelului inoxidabil X2CrNiMn22-5-3 tratat termic", A XIV-a Conferință internațională multidisciplinară, "Profesorul Dorin Pavel - fondatorul hidroenergeticii românești", vol. 26, pp. 425-430, 2014, Sebeș.
2. **L.C. Sălcianu**, I.Bordeasu, L.M.Micu, C.Ghera: „The resistance to erosion by cavitation two the different structural steel stainless exposed same heat treatment by volume”, Conferința națională multidisciplinară Profesorul Ion. D Lăzărescu, fondatorul școlii românești de teoria așchierii, Ediția I, Cugir, pp. 675-682, 2014.

- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E. Brevete obținute în întreaga activitate

1.

Data:

16.06.2026

Semnătura:

A N E X A 4 . 1

Nume Prenume: DUTEANU Narcis

Gradul didactic: Conferentiar

Instituția unde este titular: Universitatea Politehnica Timisoara

Facultatea: Facultatea de Chimie Industrială și Ingineria Mediului

Departamentul: CAICAM

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

1. **Duțeanu Narcis**, Studii asupra performanțelor pilelor de combustie metanol/aer (oxigen) și borohidruură/aer (oxigen) echipate cu electrolit polimer solid, 2007

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Makarand M. Ghangrekar, Rao Y. Surampalli, Tian C. Zhang, Narcis M. Duteanu, Microbial Electrochemical Technologies: Fundamentals and Applications, Wiley-VCH GmbH, 2024, Print ISBN: 9783527350735
2. Jadhav Dipak, Ghangrekar Makarand, Duțeanu Narcis, Chapter 23: Recent progress towards scaling up of MFCs Microbial fuel cell a bioelectrochemical system that converts waste to watts, Springer, 2017, ISBN 978-3-319-66793-5
3. Duțeanu Narcis, Adriana Balasoiu, Prita Chatterjee, Makarand Ghangrekar, Chapter 1: A basic overview of fuel cells, in book Organic - Inorganic Composite Polymer Electrolyte Membranes: Preparation, Properties and Fuel Cells Applications, Springer, 2017, ISBN 978-3-319-52739-0
3. K. Scott, E.H. Yu, M.M. Ghangrekar, B. Erable, Duțeanu Narcis, Comprehensive Renewable Energy – Chapter: Biological and Microbial Fuel Cells, Editura Elsevier, 2012, ISBN 9780080878720.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Nicolaescu, M., M.-I. Popescu, C. Codrean, I. Hulka, C. Orha, C. Lazau, C. Bandas, and N. Duteanu, *Fabrication and performance evaluation of the NPC/amorphous-Sn₂P₂O₇ by dealloying of CuNiSnP alloy for supercapacitor application*. Sustainable Energy Technologies and Assessments, 2025. **80**.

2. Morariu , M.-I., M. Nicolaescu, C. Orha, C. Lazau, N. Duteanu, and C. Bandas, *Heterostructure Based of Ti-TiO₂(NW)/rGO Hybrid Materials for Electrochemical Applications*. Inorganics, 2025. **13**(2).
3. Albulescu, D., D. Ursu, A. Dabici, M. Birdeanu, N. Duteanu, S. Popa, M. Miclau, and S. Nitu, *Impact of the selectivity of titanium dioxide on photovoltaic performance of anthocyanin-sensitized solar cells*. Energy Sources Part a-Recovery Utilization and Environmental Effects, 2025. **47**(1): p. 7303–7316.
4. Vancea, C., L. Ciocarlie, A. Negrea, G. Mosoarca, M. Ciopec, N. Duteanu, P. Negrea, B. Pascu, and N.-S. Nemes, *Evaluation of Functionalized Amberlite Type XAD7 Polymeric Resin with L-Valine Amino Acid Performance for Gallium Recovery*. Polymers, 2024. **16**(6).
5. Morariu , M.-I., M. Nicolaescu, I. Hulka, N. Duteanu, C. Orha, C. Lazau, and C. Bandas, *Fabrication of Cu₂O/CuO Nanowires by One-Step Thermal Oxidation of Flexible Copper Mesh for Supercapacitor Applications*. Batteries-Basel, 2024. **10**(7).
6. Güzel, E., U. Çoruh, N. Duteanu, C. Cicek, E. Agar, E.M. Vazquez-Lopez, and M. Yavuz, *Журнал структурной химии*, 2024. **65**(11): p. 135169–135169.
7. Guezal, E., U. Coruh, N. Duteanu, C. Cicek, E. Agar, E.M. Vazquez Lopez, and M. Yavuz, *Experimental Studies of Schiff Base (<i>E</i>)-4-Methoxy-2-(((2-Phenoxyphenyl)Imino)-Methyl) Phenol Compound with Various Spectroscopic Methods*. Journal of Structural Chemistry, 2024. **65**(11): p. 2187–2197.
8. Frent, O.-D., L. Stefan, C.M. Morgovan, N. Duteanu, I.L. Dejeu, E. Marian, L. Vicas, and F. Manole, *A Systematic Review: Quercetin-Secondary Metabolite of the Flavonol Class, with Multiple Health Benefits and Low Bioavailability*. International Journal of Molecular Sciences, 2024. **25**(22).
9. Daminescu, D., N. Duteanu, M. Ciopec, A. Negrea, P. Negrea, N.S. Nemes, B. Pascu, C. Ianasi, and L. Cotet, *Adsorption of Scandium Ions by Amberlite XAD7HP Polymeric Adsorbent Loaded with Tri-*n*-Octylphosphine Oxide*. Molecules, 2024. **29**(7).
10. Ciocarlie, L., A. Negrea, M. Ciopec, N. Duteanu, P. Negrea, P. Svera , and C. Ianasi, *Adsorption Performances and Mechanisms of MgFe₂O₄ Spinel Toward Gallium (III) from Aqueous Solution*. Materials, 2024. **17**(23).
11. Berbentea, A., M. Ciopec, N. Duteanu, A. Negrea, P. Negrea, N.S. Nemes, B. Pascu, P. Svera , C. Ianasi, D.M. Duda Seiman, D. Muntean, and E. Boeriu, *Advanced Photocatalytic Degradation of Cytarabine from Pharmaceutical Wastewaters*. Toxics, 2024. **12**(6).
12. Babau, T., M. Ciopec, N. Duteanu, A. Negrea, P. Negrea, N.S. Nemes, B. Pascu, M. Mihailescu, and C. Ianasi, *Synthesis of Some Eco-Friendly Materials for Gold Recovery*. Polymers, 2024. **16**(17).
13. Vancea, C., G. Mladin, M. Ciopec, A. Negrea, N. Duteanu, P. Negrea, G. Mosoarca, and C. Ianasi, *Arsenic Removal Using Unconventional Material with Iron Content: Batch Adsorption and Column Study*. Toxics, 2023. **11**(10).
14. ul Haque, S., A. Nasar, N. Duteanu, and Inamuddin, *Carbon based-nanomaterials used in biofuel cells-A review*. Fuel, 2023. **331**.
15. Petrehele, A.I.G., N. Duteanu, M.C. Morgovan, S.M. Filip, S. Ciocan, and E. Marian, *Synthesis and Characterisation of Monolacunary Keggin Monovanado-deca-tungstophosphate and Its Complexes with Transition Metal Cations*. Materials, 2023. **16**(2).
16. Pascu, B., A. Negrea, M. Ciopec, N. Duteanu, P. Negrea, L.A. Bumm, O. Grad , N.S. Nemes, C. Mihalcea, and D.M. Duda-Seiman, *Silver Nanoparticle Synthesis via Photochemical Reduction with Sodium Citrate*. International Journal of Molecular Sciences, 2023. **24**(1).
17. Mladin, G., M. Ciopec, A. Negrea, N. Duteanu, P. Negrea, P. Svera , and C. Ianasi, *Selenite Removal from Aqueous Solution Using Silica-Iron Oxide Nanocomposite Adsorbents*. Gels, 2023. **9**(6).
18. Ianasi, C., P. Svera , A. Popa, R. Lazau, A. Negrea, P. Negrea, N. Duteanu, M. Ciopec, and N.-S. Nemes, *Adsorbent Material Based on Carbon Black and Bismuth with Tunable Properties for Gold Recovery*. Materials, 2023. **16**(7).
19. Ianasi, C., N.S. Nemes, B. Pascu, R. Lazau, A. Negrea, P. Negrea, N. Duteanu, M. Ciopec, J. Plocek, P. Alexandru, B. Badescu, D.M. Duda-Seiman, and D. Muntean, *Synthesis, Characterization and*

- Antimicrobial Activity of Multiple Morphologies of Gold/Platinum Doped Bismuth Oxide Nanostructures.* International Journal of Molecular Sciences, 2023. **24**(17).
20. Frent, O.D., L.G. Vicas, N. Duteanu, N.S. Nemes, B. Pascu, A. Teusdea, C.M. Morgovan, M.E. Muresan, T. Jurca, A. Pallag, A.M. Vlase, L. Vlase, I. Dejeu, G.E. Dejeu, and E. Marian, *Formulation, Physico-Chemical Characterization, and Evaluation of the In Vitro Release Capacity of the <i>Ruta graveolens</i> L. Phytocomplex from Biodegradable Chitosan and Alginate Microspheres.* Applied Sciences-Basel, 2023. **13**(17).
21. Frent, O.-D., D.M. Duda-Seiman, L.G. Vicas, N. Duteanu, N.S. Nemes, B. Pascu, A. Teusdea, C.M. Morgovan, M.E. Muresan, T. Jurca, A. Pallag, O. Micle, and E. Marian, *Study of the Influence of the Excipients Used for the Synthesis of Microspheres Loaded with Quercetin: Their Characterization and Antimicrobial Activity.* Coatings, 2023. **13**(8).
22. Daminescu, D., N. Duteanu, M. Ciopec, A. Negrea, P. Negrea, N.S. Nemes, B. Pascu, R. Lazau, and A. Berbecea, *Kinetic Modelling the Solid-Liquid Extraction Process of Scandium from Red Mud: Influence of Acid Composition, Contact Time and Temperature.* Materials, 2023. **16**(21).
23. Vajda, M., D. Ursu, N. Miclau, N. Duteanu, and M. Miclau, *Fabrication of copper oxide-based dye-sensitized solar cell with high short-circuit current density (<i>J</i>_{SC}) using flexible and binder-free porous photoelectrode.* Journal of Materials Science-Materials in Electronics, 2022. **33**(26): p. 20790–20801.
24. ul Haque, S., N. Duteanu, A. Nasar, and Inamuddin, *Polythiophene-titanium oxide (PTH-TiO₂) nanocomposite: As an electron transfer enhancer for biofuel cell anode construction.* Journal of Power Sources, 2022. **520**.
25. Nemes, N.S., C. Ardean, C.M. Davidescu, A. Negrea, M. Ciopec, V.F. Musta, N. Duteanu, P. Negrea, and D. Muntean, *Symmetry between Structure-Antibacterial Effect of Polymers Functionalized with Phosphonium Salts.* Symmetry-Basel, 2022. **14**(3).
26. Nemes, N.S., C. Ardean, C.M. Davidescu, A. Negrea, M. Ciopec, N. Duteanu, P. Negrea, C. Paul, D. Duda-Seiman, and D. Muntean, *Antimicrobial Activity of Cellulose Based Materials.* Polymers, 2022. **14**(4).
27. Mladin, G., M. Ciopec, A. Negrea, N. Duteanu, P. Negrea, P. Ianasi, and C. Ianasi, *Silica- Iron Oxide Nanocomposite Enhanced with Porogen Agent Used for Arsenic Removal.* Materials, 2022. **15**(15).
28. Matusoiu, F., A. Negrea, N.S. Nemes, C. Ianasi, M. Ciopec, P. Negrea, N. Duteanu, P. Ianasi, D. Duda-Seiman, and D. Muntean, *Antimicrobial Perspectives of Active SiO₂Fe_xO_y/ZnO Composites.* Pharmaceutics, 2022. **14**(10).
29. Matusoiu, F., A. Negrea, M. Ciopec, N. Duteanu, P. Negrea, P. Svera, and C. Ianasi, *Molybdate Recovery by Adsorption onto Silica Matrix and Iron Oxide Based Composites.* Gels, 2022. **8**(2).
30. Matusoiu, F., A. Negrea, M. Ciopec, N. Duteanu, P. Negrea, P. Ianasi, and C. Ianasi, *Vanadium (V) Adsorption from Aqueous Solutions Using Xerogel on the Basis of Silica and Iron Oxide Matrix.* Materials, 2022. **15**(24).
31. Kellenberger, A., N. Vaszilcsin, D. Duca, M.L. Dan, N. Duteanu, S. Stiber, T. Morawietz, I. Biswas, S.A. Ansar, P. Gazdzicki, F.J. Wirkert, J. Roth, U. Rost, M. Brodmann, A.S. Gago, and K.A. Friedrich, *Towards Replacing Titanium with Copper in the Bipolar Plates for Proton Exchange Membrane Water Electrolysis.* Materials, 2022. **15**(5).
32. Frent, O.D., N. Duteanu, A.C. Teusdea, S. Ciocan, L. Vicas, T. Jurca, M. Muresan, A. Pallag, P. Ianasi, and E. Marian, *Preparation and Characterization of Chitosan-Alginate Microspheres Loaded with Quercetin.* Polymers, 2022. **14**(3).
33. Frent, O., L. Vicas, N. Duteanu, C. Morgovan, T. Jurca, A. Pallag, M. Muresan, S. Filip, R.-L. Lucaciu, and E. Marian, *Sodium Alginate-Natural Microencapsulation Material of Polymeric Microparticles.* International Journal of Molecular Sciences, 2022. **23**(20).
34. Dobra, G., S. Garcia-Granda, A. Negrea, M. Ciopec, N.S. Nemes, P. Negrea, N. Duteanu, S. Iliev, L. Cotet, A. Boiangiu, and L. Filipescu, *Silver Adsorption on the Low Temperature Activated Alumina Grades. II.*

- Antimicrobial Activity of the Silver Adsorbed on the Alumina Surface*. Revista de Chimie, 2022. **73**(3): p. 14–27.
35. Daminescu, D., N. Duteanu, M. Ciopec, A. Negrea, P. Negrea, N.S. Nemes, A. Berbecea, G. Dobra, S. Iliev, L. Cotet, A. Boiangiu, and L. Filipescu, *Scandium Recovery from Aqueous Solution by Adsorption Processes in Low-Temperature-Activated Alumina Products*. International Journal of Molecular Sciences, 2022. **23**(17).
 36. Ciopec, M., O. Grad, A. Negrea, N. Duteanu, P. Negrea, R. Voda, and C. Ianasi, *Highly Efficient Recovery of Ruthenium from Aqueous Solutions by Adsorption Using Dibenzo-30-Crown-10 Doped Chitosan*. Polymers, 2022. **14**(8).
 37. Ciocarlie, L., A. Negrea, M. Ciopec, N. Duteanu, P. Negrea, P. Ianasi, C. Ianasi, and N.S. Nemes, *Indium Recovery by Adsorption on $MgFe_2O_4$ Adsorbents*. Materials, 2022. **15**(20).
 38. Vajda, M., D. Ursu, C. Mosoarca, N. Duteanu, and M. Miclau, *Experimental investigation of hydrogen insertion in copper oxide on photovoltaic performance of p -type dye-sensitized solar cell*. International Journal of Energy Research, 2021. **45**(4): p. 5309–5317.
 39. ul Haque, S., N. Duteanu, S. Ciocan, A. Nasar, and Inamuddin, *A review: Evolution of enzymatic biofuel cells*. Journal of Environmental Management, 2021. **298**.
 40. Pascu, B., A. Negrea, M. Ciopec, N. Duteanu, P. Negrea, N.S. Nemes, C. Seiman, E. Marian, and O. Micle, *A Green, Simple and Facile Way to Synthesize Silver Nanoparticles Using Soluble Starch. pH Studies and Antimicrobial Applications*. Materials, 2021. **14**(16).
 41. Negrea, A., S. Ronka, M. Ciopec, N. Duteanu, P. Negrea, and M. Mihailescu, *Kinetics, Thermodynamics and Equilibrium Studies for Gold Recovery from Diluted Waste Solution*. Materials, 2021. **14**(18).
 42. Mihailescu, M., A. Negrea, M. Ciopec, P. Negrea, N. Duteanu, I. Grozav, P. Svera, C. Vancea, A. Barbulescu, and C.S. Dumitriu, *Full Factorial Design for Gold Recovery from Industrial Solutions*. Toxics, 2021. **9**(5).
 43. Grad, O.A., M. Ciopec, A. Negrea, N. Duteanu, P. Negrea, and R. Voda, *Evaluation of Performance of Functionalized Amberlite XAD7 with Dibenzo-18-Crown Ether-6 for Palladium Recovery*. Materials, 2021. **14**(4).
 44. Grad, O., M. Ciopec, A. Negrea, N. Duteanu, G. Vlase, P. Negrea, C. Dumitrescu, T. Vlase, and R. Voda, *Precious metals recovery from aqueous solutions using a new adsorbent material*. Scientific Reports, 2021. **11**(1).
 45. Ciopec, M., O. Grad, A. Negrea, N. Duteanu, P. Negrea, C. Paul, C. Ianasi, G. Mosoarca, and C. Vancea, *A New Perspective on Adsorbent Materials Based Impregnated $MgSiO_3$ with Crown Ethers for Palladium Recovery*. International Journal of Molecular Sciences, 2021. **22**(19).
 46. Ciopec, M., G. Biliuta, A. Negrea, N. Duteanu, S. Coseri, P. Negrea, and M. Ghangrekar, *Testing of Chemically Activated Cellulose Fibers as Adsorbents for Treatment of Arsenic Contaminated Water*. Materials, 2021. **14**(13).
 47. Ardean, C., C.M. Davidescu, N.S. Nemes, A. Negrea, M. Ciopec, N. Duteanu, P. Negrea, D. Duda-Seiman, and V. Musta, *Factors Influencing the Antibacterial Activity of Chitosan and Chitosan Modified by Functionalization*. International Journal of Molecular Sciences, 2021. **22**(14).
 48. Ardean, C., C.M. Davidescu, N.S. Nemes, A. Negrea, M. Ciopec, N. Duteanu, P. Negrea, D. Duda-Seiman, and D. Muntean, *Antimicrobial Activities of Chitosan Derivatives*. Pharmaceutics, 2021. **13**(10).
 49. Voicu, A., N. Duteanu, M. Voicu, D. Vlad, and V. Dumitrascu, *The rcdk and cluster R packages applied to drug candidate selection*. Journal of Cheminformatics, 2020. **12**(1).
 50. Vancea, C., M. Mihailescu, A. Negrea, G. Mosoarca, M. Ciopec, N. Duteanu, P. Negrea, and V. Minzatu, *Batch and Fixed-Bed Column Studies on Palladium Recovery from Acidic Solution by Modified $MgSiO_3$* . International Journal of Environmental Research and Public Health, 2020. **17**(24).
 51. Vajda, M., D. Ursu, N. Duteanu, and M. Miclau, *Low lying valence band edge materials based on copper oxide for tandem dye -sensitized solar cells*. Materials Letters, 2020. **275**.

52. Pascu, B., A. Negrea, M. Ciopec, C.M. Davidescu, P. Negrea, V. Gherman, and N. Duteanu, *New Generation of Antibacterial Products Based on Colloidal Silver*. Materials, 2020. **13**(7).
53. Pascu, B., C. Ardean, C.M. Davidescu, A. Negrea, M. Ciopec, N. Duteanu, P. Negrea, and G. Rusu, *Modified Chitosan for Silver Recovery-Kinetics, Thermodynamic, and Equilibrium Studies*. Materials, 2020. **13**(3).
54. Negrea, P., A. Gabor, C.M. Davidescu, M. Ciopec, A. Negrea, and N. Duteanu, *Kinetics and thermodynamics modeling of Nd(III) removal from aqueous solution using modified Amberlite XAD7*. Journal of Rare Earths, 2020. **38**(3): p. 306–314.
55. Negrea, A., M. Mihailescu, G. Mosoarca, M. Ciopec, N. Duteanu, P. Negrea, and V. Minzatu, *Estimation on Fixed-Bed Column Parameters of Breakthrough Behaviors for Gold Recovery by Adsorption onto Modified/Functionalized Amberlite XAD7*. International Journal of Environmental Research and Public Health, 2020. **17**(18).
56. Marian, E., B. Tita, N. Duteanu, L. Vicas, S. Ciocan, T. Jurca, L. Antal, O. Tica, M. Muresan, A. Pallag, and O. Micle, *Antimicrobial activity of fusidic acid inclusion complexes*. International Journal of Infectious Diseases, 2020. **101**: p. 65–73.
57. Marian, E., N. Duteanu, L. Vicas, G. Rusu, T. Jurca, M. Muresan, O. Micle, A.C. Hangan, R.L. Stan, C. Ionescu, B. Sevastre, and E. Pall, *Synthesis, characterization of inclusion compounds of amygdalin with β -cyclodextrin and sod-like activity and cytotoxicity on hela tumor cells*. Arabian Journal of Chemistry, 2020. **13**(8): p. 6828–6837.
58. Dobra, G., S. Garcia-Granda, S. Iliev, L. Cotet, H. Iosif, P. Negrea, N. Duteanu, A. Boiangiu, and L. Filipescu, *Aluminum Hydroxide Impurities Occlusions and Contamination Sources*. Revista de Chimie, 2020. **71**(9): p. 65–76.
59. Ciopec, M., I. Hulka, N. Duteanu, A. Negrea, O. Grad, P. Negrea, V. Minzatu, and C. Ardean, *Arsenic removal from water using a new class of materials with adsorbent properties*. International Journal of Environmental Impacts, 2020. **3**(1): p. 56–68.
60. Ciopec, M., A. Gabor, C.M. Davidescu, A. Negrea, P. Negrea, and N. Duteanu, *Eu(III) removal by tetrabutylammonium di-hydrogen phosphate (TBAH2P) functionalized polymers*. Arabian Journal of Chemistry, 2020. **13**(1): p. 3534–3545.
61. Buriac, O., M. Ciopec, N. Duteanu, A. Negrea, P. Negrea, and I. Grozav, *Platinum (IV) Recovery from Waste Solutions by Adsorption onto Dibenzo-30-crown-10 Ether Immobilized on Amberlite XAD7 Resin-Factorial Design Analysis*. Molecules, 2020. **25**(16).
62. Muntean, C., A. Negrea, N. Duteanu, M. Ciopec, P. Negrea, and O. Grad, *Mining activity: Environmental impact in the West area of Romania*. Mining and Metallurgy Engineering Bor, 2019(3-4): p. 39–42.
63. Minzatu, V., C.M. Davidescu, A. Negrea, M. Ciopec, P. Negrea, N. Duteanu, M. Motoc, and D. Velimirovici, *Biopolymers - Carbon Sources for Composite Materials Used as Adsorbents for As (V)*. Materiale Plastice, 2019. **56**(1): p. 210–215.
64. Minzatu, V., C.M. Davidescu, M. Ciopec, P. Negrea, N. Duteanu, A. Negrea, M. Motoc, and A. Manea, *Eco-materials for Arsenium and Selenium Removal from Aqueous Solutions*. Revista De Chimie, 2019. **70**(5): p. 1586–1591.
65. Minzatu, V., C.-M. Davidescu, P. Negrea, M. Ciopec, C. Muntean, I. Hulka, C. Paul, A. Negrea, and N. Duteanu, *Synthesis, Characterization and Adsorptive Performances of a Composite Material Based on Carbon and Iron Oxide Particles*. International Journal of Molecular Sciences, 2019. **20**(7).
66. Mihailescu, M., P. Negrea, N. Duteanu, A. Negrea, M. Ciopec, V. Gherman, R. Buzatu, and M. Motoc, *From the Complex Process of Gold Ions Recovery in New Antimicrobial Product*. Revista De Chimie, 2019. **70**(3): p. 1080–1084.
67. Mihailescu, M., A. Negrea, M. Ciopec, C.M. Davidescu, P. Negrea, N. Duteanu, and G. Rusu, *Gold (III) adsorption from dilute waste solutions onto Amberlite XAD7 resin modified with L-glutamic acid*. Scientific Reports, 2019. **9**.

68. Ciopec, M., A. Negrea, N. Duteanu, C.M. Davidescu, I. Hulka, M. Motoc, P. Negrea, O. Grad, and D.B. Vaduva, *As(III) Removal by Dynamic Adsorption onto Amberlite XAD7 Functionalized with Crown Ether and Doped with Fe(III) Ions*. *Revista De Chimie*, 2019. **70**(7): p. 2330–2334.
69. Ciopec, M., I. Hulka, N. Duteanu, A. Negrea, O. Grad, P. Negrea, V. Minzatu, and C. Ardean, *Arsenic removal from water using a new class of materials with adsorbent properties*. *International Journal of Environmental Impacts*, 2019. **3**(1): p. 53–65.
70. Ciopec, M., C.M. Davidescu, A. Negrea, N. Duteanu, G. Rusu, O. Grad, and P. Negrea, *Amberlite XAD7 resin functionalized with crown ether and Fe(III) used for arsenic removal from water*. *Pure and Applied Chemistry*, 2019. **91**(3): p. 375–388.
71. Avram, S., A.M. Udrea, A. Negrea, M. Ciopec, N. Duteanu, C. Postolache, C. Duda-Seiman, D. Duda-Seiman, and S. Shaposhnikov, *Prevention of Deficit in Neuropsychiatric Disorders through Monitoring of Arsenic and Its Derivatives as Well as Through Bioinformatics and Cheminformatics*. *International Journal of Molecular Sciences*, 2019. **20**(8).
72. Ursu, D., A. Dabici, M. Vajda, N.C. Bublea, N. Duteanu, and M. Miclau, *Effect of Cu₂O Morphology on Photovoltaic Performance of P-Type Dye-Sensitized Solar Cells*. *Annals of West University of Timisoara - Physics*, 2018. **60**(1): p. 67–74.
73. Negrea, A., A. Gabor, C.M. Davidescu, M. Ciopec, P. Negrea, N. Duteanu, and A. Barbulescu, *Rare Earth Elements Removal from Water Using Natural Polymers*. *Scientific Reports*, 2018. **8**.
74. Jadhav, D.A., M.M. Ghangrekar, and N. Duteanu, *Recent Progress Towards Scaling Up of MFCs, in Microbial Fuel Cell: A Bioelectrochemical System That Converts Waste to Watts*. 2018. p. 443–457.
75. Dan, M., A. Kellenberger, N. Vasilcsin, and N. Duteanu, *VOLTAMMETRIC STUDIES OF YBaCo₂O₅ IN ALKALINE AQUEOUS SOLUTION*. *Environmental Engineering and Management Journal*, 2018. **17**(12): p. 2807–2814.
76. Cioroiu, D.R., O.C. Parvulescu, T. Dobre, C. Raducanu, C.I. Koncsag, A. Mocanu, and N. Duteanu, *Slow Pyrolysis of *Cystoseira Barbata* Brown Macroalgae*. *Revista De Chimie*, 2018. **69**(3): p. 553–556.
77. Barbulescu, A., N. Duteanu, A. Negrea, and M.M. Ghangrekar, *New Trends in Monitoring and Removing the Pollutants from Water*. *Journal of Chemistry*, 2018. **2018**.
78. Marian, E., N. Duteanu, L. Vicas, B. Tita, P. Sfirloaga, and T. Jurca, *Purity Determination of Fusidic Acid Using Physico-chemical Methods*. *Revista De Chimie*, 2017. **68**(7): p. 1435–1437.
79. Gabor, A., C.M. Davidescu, A. Negrea, M. Ciopec, I. Grozav, P. Negrea, and N. Duteanu, *Optimizing the lanthanum adsorption process onto chemically modified biomaterials using factorial and response surface design*. *Journal of Environmental Management*, 2017. **204**: p. 839–844.
80. Barbulescu, A., *Modeling the impact of the human activity, behavior and decisions on the environment. Marketing and green consumer (Special Issue)*. *Journal of Environmental Management*, 2017. **204**: p. 813–813.
81. Vaida, M., N. Duteanu, and I. Grozescu, *The effects of doping on the structural, optical and electric properties of Zn₄Sb₃ material*. *Journal of the Serbian Chemical Society*, 2016. **81**(3): p. 323–332.
82. Hulka, I., V.A. Serban, D. Utu, N.M. Duteanu, A. Pascu, I. Roata, and I. Maior, *WEAR RESISTANCE OF LASER CLADDING NiCrBSi COMPOSITE COATINGS*. *Revista Romana De Materiale-Romanian Journal of Materials*, 2016. **46**(1): p. 49–54.
83. Hulka, I., V.A. Serban, D. Utu, N. Duteanu, A. Pascu, and I.C. Roata, *CORROSION RESISTANCE OF LASER CLADDED NiCrBSi COMPOSITE COATINGS (vol 60, pg 179, 2015)*. *Studia Universitatis Babes-Bolyai Chemia*, 2016. **61**(1): p. 317–317.
84. Gabor, A., C.M. Davidescu, A. Negrea, M. Ciopec, C. Muntean, N. Duteanu, and P. Negrea, *Sorption properties of Amberlite XAD 7 functionalized with sodium β-glycerophosphate*. *Pure and Applied Chemistry*, 2016. **88**(12): p. 1143–1154.



D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1. -

- Selecție cu maximum 20 lucrări în volume de conferințe

1. -

E. Brevete obținute în întreaga activitate

1. -

Data: 02.11.2025

Semnătura:

A N E X A 4 . 1

Nume Prenume: Costea Liviu-Virgil.

Gradul didactic: Șef Lucrări.

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: Facultatea de Inginerie Chimica, Biotehnologii si Protecția Mediului

Departamentul: CAICAM.

L I S T A
lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Contribuții la electrochimia unor compuși heterociclici <31.05.2007>

B. Cărți si capitole în cărți publicate în ultimii 10 ani

1. Noțiuni teoretice de chimie generală, Angela Magda, Liviu-Virgil Costea, Ed. Politehnica Timișoara, 2014, ISBN: 978-606-554-854-1

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

Nr.	Anul	Autor(i)	TITLU ARTICOL	Revista/conferința	ISSN/ISBN
1.	2014	Liviu-Virgil Costea, Günter Fafilek, Hermann Kronberger	Electrochemical properties of fluorinated 3ydrazine-pyrazoles in [BMIM+][BF4-] ionic liquid	Environmental Engineering and Management Journal, Vol.13(8), 2014	1582-9596
2.	2015	Mircea Niculescu Angela Magda Marius Jurca Liviu Costea Vasile Pode	Thermal and Kinetic Studies of the Polynuclear Coordination Compound Obtained Through the Reaction of 1,3-propanediol with Ni(NO ₃) ₂ · 6 H ₂ O	Revista de Chimie, 2015, 66 (8)	0034-7752
3.	2018	Costea, L.V., Bica, K., Fafilek, G., Mihovilovic, M.D.	Electrochemical properties of halogenated benzylidenehydrazino-pyrazoles in various imidazolium-based ionic liquids	Monatshefte für Chemie (Chemical Monthly), Nr. 149 (4) pp. 823-831	0026-9247 (Print) 1434-4475 (Online)

4.	2018	Savencu, C.E., Costea, L.V., Dan, M.L., Porojan, L.	Corrosion behaviour of Co-Cr dental alloys processed by alternative CAD/CAM technologies in artificial saliva solutions	International Journal of Electrochemical Science,13(4), pp. 3588-3600	ISSN 1452-3981
5.	2018	Porojan, L., Savencu, C.E., Costea, L.V., Dan, M.L., Porojan, S.	Corrosion Behavior of Ni-Cr Dental Casting Alloys	International Journal of Electrochemical Science,13(1), pp. 410-423	ISSN 1452-3981
6.	2018	Dan, M.L., Costea, L.-V., Savencu, C.E., Porojan, L.	Influence of pH on the Corrosion Behaviour of Laser-Processed Co-Cr Dental Alloys in Artificial Saliva	IOP Conference Series: Materials Science and Engineering 416(1),012036	Online ISSN: 1757-899X
7.	2018	Costea, L.-V., Dan, M.L., Savencu, C.E., Porojan, L.	Comparative Study on the Corrosion Resistance of CAD/CAM and Conventional Processed Co-Cr Dental Alloys in NaCl Solutions	IOP Conference Series: Materials Science and Engineering 416(1),012047	Online ISSN: 1757-899X
8	2020	Reisz E., Davidescu C-M., Ardelean R., Costea L.	Activation of Mirsid Volcanic Tuff with NaOH Solutions	Rev. Chim., 71, (2), 2020, p196	0034-7752
9	2023	Dima G.D., Șerboiu O.T., Dan M.L., Costea L.V.	Valerian Extract Used as Potential Corrosion Inhibitor for Carbon Steel in Different Media	Stud. UBB Chem., 67, (3), 2023, pp 99-114	Online ISSN 2065-9520
10	2024	Costea L.V. M.E. Rădulescu-Grad G. Fafilek	Electrochemical and density functional theory studies of some newly synthesized azo-stilbene	Monatshefte für Chemie - Chemical Monthly https://doi.org/10.1007/s00706-024-03189-1	0026-9247 (Print) 1434-4475 (Online)



			chromogenic structures.		
--	--	--	----------------------------	--	--

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste
- Selecție cu maximum 20 lucrări în volume de conferințe

E. Brevete obținute în întreaga activitate

Data: 05.06.2026

Semnătura:

LISTA COMPLETĂ DE LUCRĂRI

Lect. univ. dr. Ana-Maria Dascălu-Romițan

A. LISTA CELOR MAI RELEVANTE 10 LUCRĂRI PUBLICATE

1. **Dascălu, Ana-Maria** / Dascălu, Bogdan Mihai, *Titu Maiorescu, Opere. I. Jurnal, vol. I. 1855-1882*. Text stabilit, traducere, nota asupra ediției, note, glosar și indici de Ana-Maria Dascălu și Bogdan Mihai Dascălu, Academia Română, Fundația Națională pentru Știință și Artă, București, 2013, ISBN 978-606-555-101-5 (ediție critică filologică)
2. **Dascălu-Romițan, Ana-Maria**, *Übersetzung, Transkription und interkulturelles Verständnis*, în „Temeswarer Beiträge zur Germanistik“, vol. 16, Editura Mirton, Timișoara, 2019, p. 235-252, ISSN 1453-7621
<https://litere.uvt.ro/publicatii/TBG/pdf/TBG/TBG16.pdf>
3. **Dascălu-Romițan, Ana-Maria**, *Die Rolle der visuellen Medien im DaF-Unterricht*, în „Scientific Bulletin of The Politehnica University of Timișoara“, *Transactions on Modern Languages*, volume 14, Issue 1, Timișoara, Editura Politehnica, 2015, p. 91-103, ISSN 1583-7467
https://sc.upt.ro/images/cwattachments/106_025064a66a553a6670196ed00c84f4fd.pdf
<https://www.ceeol.com/search/article-detail?id=330030>
4. **Dascălu-Romițan, Ana-Maria**, *Mehrsprachigkeit und interkultureller Dialog in Temeswar*, în „Germanistische Beiträge“, Universitatea „Lucian Blaga“, Sibiu, vol. 45, 2019, p. 78-93, ISSN 1454-5144
DOI: <https://doi.org/10.2478/gb-2019-0021>
<http://web.a.ebscohost.com/abstract?site=ehost&scope=site&jml=14545144&AN=141621789&h=s4IMZIUwpSTWa3c34hR1OhtoRXkzi1IGAkWbzB0Fm2jzY9MiLMeX1d0LLq5XIVWLC9Ylr3SpNWZgqe418LdOUw%3d%3d&crl=f&resultLocal=ErrCrlNoResults&resultNs=Ehost&crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jml%3d14545144%26AN%3d141621789>
<https://content.sciendo.com/view/journals/gb/45/1/article-p78.xml>
5. **Dascălu-Romițan, Ana-Maria**, *Communication and Translation Studies at the Politehnica University of Timișoara – in the Light of Multilingualism and Communication*, în Boldea, Iulian / Sigmirean, Cornel / Buda, Dumitru-Mircea (ed.): *Path of Communication in Postmodernity. Language and Discourse*, vol. 6, Arhipelag XXI Press, Tîrgu Mureș, 2020, p. 138-146, ISBN 978-606-8624-00-6 (în

curs de indexare ISI)

<http://asociatia-alpha.ro/cci/06-2020/CCI-06-Lang-a.pdf>

6. **Dascălu-Romițan, Ana-Maria**, *Traum und Doppelgänger in Giuseppe Molineris unheimlicher Erzählung „Storiella bizzarra“*, în Maurer Queipo, Isabel / Schwan, Tanja (Ed.), *Pathos – zwischen Passion und Phobie / Pathos – entre pasión y fobia. Schmerz und Schrecken in den romanischen Literaturen seit dem 19. Jahrhundert. Dolor y espanto en las literaturas románicas a partir del siglo XIX*, Editura Peter Lang, Frankfurt am Main, Berlin, Bern, New York, Oxford, Viena, 2018, p. 197-210, ISBN: 978-3-653-96240-6; E-Book (EPUB): ISBN: 978-3-653-96450-9
DOI: <https://doi.org/10.3726/978-3-653-05679-2>
7. **Dascălu-Romițan, Ana-Maria**, *The role of higher education and cultural organisations in promoting intercultural dialogue*, în: Valeri, Marco, Palea, Adina, Laszlo Imre Komlosi (eds.): *Impact & Legacy of the European Capitals (ECoc) of Culture Program*, Springer International Publishing / Springer, 2025, ISBN 978-3-032-12204-9, eBook ISBN 978-3-032-12205-6 (capitol de carte)
<https://link.springer.com/book/9783032122049?srsId=AfmBOopjYZCLIZbKEajZ5kjaQLIOixpuFp1Bd6NKGZO75V5Z1E34d7uU>

B. TEZA DE DOCTORAT

Mișcarea literară scapigliatura în context european (Die literarische Bewegung Scapigliatura im europäischen Kontext), domeniul: filologie; coordonator științific: Prof. univ. dr. Adriana Babeți; teză susținută public în 6.10.2014, Universitatea de Vest din Timișoara; Ordinul Ministrului Educației Naționale Nr. 3181 / 06.02.2015

C. BREVETE: -

D. CĂRȚI ȘI CAPITOLE ÎN CĂRȚI

1. **Dascălu-Romițan, Ana-Maria**, *Mișcarea literară scapigliatura în context european*, Editura Mirton, Timișoara, 2016, ISBN 978-973-52-1591-0
2. Nubert, Roxana / **Dascălu-Romițan, Ana-Maria** / Predoiu, Graziella, *Deutschsprachige Literatur im rumänischen Kulturraum (19.-21. Jahrhundert) / Interkulturelle Begegnungen*, Editura Mirton, Timișoara, 2017, ISBN 978-973-52-1731-0

3. **Dascălu-Romițan, Ana-Maria**, *The role of higher education and cultural organisations in promoting intercultural dialogue*, în Valeri Marco, Palea Adina, László Imre Komlósi (ed.), *Impact and Legacy of the European Capitals of Culture (ECoC) Program. Proceedings from the 2024 (UNeECC) International Annual Conference*, Timisoara, Romania, October 9-11, Springer Proceedings in Business and Economics, 2026, ISBN 978-3-032-12204-9
<https://link.springer.com/book/9783032122049#about-this-book>

4. **Dascălu-Romițan, Ana-Maria**, *Traum und Doppelgänger in Giuseppe Molineris unheimlicher Erzählung „Storiella bizzarra“*, în Maurer Queipo, Isabel / Schwan, Tanja (Ed.), *Pathos – zwischen Passion und Phobie / Pathos – entre pasión y fobia. Schmerz und Schrecken in den romanischen Literaturen seit dem 19. Jahrhundert. Dolor y espanto en las literaturas románicas a partir del siglo XIX*, Editura Peter Lang Frankfurt am Main, Berlin, Berna, Bruxelles, New York, Oxford, Viena, 2015, p. 197-210, ISBN 978-3-631-66464-3
 DOI: <https://doi.org/10.3726/978-3-653-05679-2>

5. **Dascălu-Romițan, Ana-Maria**, Nubert, Roxana, *Herta Müllers Roman Atemschaukel im Kontext einer literarischen Tradition*, în Galter, Sunhild / Sass, Maira / Tichy, Ellen (Ed.), *Wechselwirkungen im deutsch-rumänischen Kulturfeld. Beiträge zu Sprach- und Literaturkontakten aus interkultureller Perspektive*, Editura Peter Lang, Frankfurt pe Main, Berlin, Bruxelles, New York, Oxford, Varșovia, Viena, 2015, p. 231-259, ISBN 978-3-66345-5 / E-ISBN 078-3-653-05671
 DOI: <https://doi.org/10.3726/978-3-653-05671-6>

6. **Dascălu-Romițan, Ana-Maria**, Nubert, Roxana, *Das Banat als Erinnerungsraum bei Johann Lippert*, în Enikő Dácz (ed.), *Räumliche Semantisierungen. Raumkonstruktionen in den deutschsprachigen Literaturen aus Zentral- und Südosteuropa im 20.-21. Jahrhundert*, Editura Friedrich Pustet, Regensburg, 2018, p. 83-96, ISBN 978-3-7917-2899-5

7. **Dascălu-Romițan, Ana-Maria**, *Traum und Doppelgänger in Giuseppe Molineris unheimlicher Erzählung „Storiella bizzarra“*, în Maurer Queipo, Isabel / Schwan, Tanja (Ed.), *Pathos – zwischen Passion und Phobie / Pathos – entre pasión y fobia. Schmerz und Schrecken in den romanischen Literaturen seit dem 19. Jahrhundert. Dolor y espanto en las literaturas románicas a partir del siglo XIX*, Editura Peter Lang, Frankfurt am Main, Berlin, Bern, New York, Oxford, Viena, 2018, p. 197-210, ISBN: 978-3-653-96240-6; E-Book (EPUB): ISBN: 978-3-653-96450-9
 DOI: <https://doi.org/10.3726/978-3-653-05679-2>

8. **Dascălu-Romițan, Ana-Maria**, Nubert, Roxana, *Identity and Migration with the German-Speaking Writer Richard Wagner from Romania*, în Guri E. Barstad / Karen S. P. Knutsen / Elin-Sofie Nesje Vestli (ed.): *Exploring Identity in Literature and Life*

Stories – The Elusive Self, Cambridge Scholars Publishing, 2019, p. 137-152, ISBN 10: 1-5275-3571-1, ISBN (13): 978-1-5275-3571-8
<https://www.cambridgescholars.com/resources/pdfs/978-1-5275-3571-8-sample.pdf>

9. **Dascălu, Ana-Maria**, Dascălu, Bogdan Mihai, *Titu Maiorescu, Opere. I. Jurnal*, vol. I. 1855-1882. Text stabilit, traducere, nota asupra ediției, note, glosar și indici de Ana-Maria Dascălu și Bogdan Mihai Dascălu, Academia Română, Fundația Națională pentru Știință și Artă, București, 2013, ISBN 978-606-555-101-5 (ediție critică filologică)
10. **Dascălu, Ana-Maria**, Dascălu, Bogdan Mihai, *Titu Maiorescu, Opere. II. Jurnal*, vol. II. 1883-1889. Text stabilit, traducere, note și comentarii de Ana-Maria Dascălu și Bogdan Mihai Dascălu, Academia Română, Fundația Națională pentru Știință și Artă, București, 2017, ISBN 978-606-555-188-6 (ediție critică filologică)
11. **Dascălu, Ana-Maria**, Dascălu, Bogdan Mihai, *Titu Maiorescu, Opere. III. Jurnal*, vol. III 1890-1897. Text stabilit, traducere, note și comentarii de Ana-Maria Dascălu și Bogdan Mihai Dascălu, Academia Română, Fundația Națională pentru Știință și Artă, București, 2017, ISBN 978-606-555-189-3 (ediție critică filologică)
12. **Dascălu, Ana-Maria**, Dascălu, Bogdan Mihai, *Titu Maiorescu, Scrieri. I. Memorialistică*, David Press Print, Timișoara, 2017, ISBN: 978-606-8643-90-8 (ediție critică filologică)
13. **Dascălu, Ana-Maria** / Dascălu, Bogdan Mihai, *Titu Maiorescu, Scrieri. II. Memorialistică*, vol. 1 & vol. 2, David Press Print, Timișoara, 2017, ISBN: 978-606-8643-91-5 (ediție critică filologică)
14. **Dascălu, Ana-Maria** / Dascălu, Bogdan Mihai, *Titu Maiorescu. Scrieri. III. Memorialistică*, David Press Print, Timișoara, 2018 (ISBN: 978-606-8643-92-2; ISBN: 978-606-999-056-8; (ediție critică filologică)
15. **Dascălu-Romițan, Ana-Maria**, *Interkulturelle Aspekte und Mehrsprachigkeit in Titu Maiorescus Tagebuch*, în: Nubert, Roxana / Dascălu-Romițan, Ana-Maria / Predoiu, Graziella (ed.), *Deutschsprachige Literatur im Rumänischen Kulturraum (19. – 21. Jahrhundert) / Interkulturelle Begegnungen*, Editura Mirton, Timișoara, 2017, p. 196-214, ISBN 978-973-52-1731-0
16. **Dascălu-Romițan, Ana-Maria**, Roxana Nubert. 2021. *Oskar Walter Ciseks Beitrag zur rumäniendeutschen Literatur nach 1945. În Jenseits des Eisernen Vorhangs. Literaturvermittlung und -produktion in Rumänien (1945-1989)*, editat de Maria Sass și Doris Sava, 79-94. Berlin/ New York: Editura Peter Lang, Internationaler Verlag der Wissenschaften, ISBN: 978-3-631-85945-2

DOI: <https://doi.org/10.3726/b18951>
<https://www.peterlang.com/document/1150652>

17. Dascălu-Romițan, Ana-Maria, Roxana Nubert. 2022. „Oscar Walter Ciseks Bezüge zum Donau- und Schwarzeerraum – Eine interdisziplinäre Untersuchung (Mit besonderer Berücksichtigung von Baltschik/Balcic).” În *Donauperlen. Beiträge zur deutschen Sprache und Kultur in Bessarabien, Dobrudscha und Schwarzeerraum*, editat de Theresa Stangl și Johann Wellner, Forschungen zur deutschen Sprache in Mittel-, Ost- und Südosteuropa FzDiMOS Universitätsbibliothek Regensburg, Regensburg, 2022, p. 104-115, ISBN 978-3-88246-465-8
<http://doi.org/10.5283/epub.51250>
18. **Dascălu-Romițan, Ana-Maria**, Nubert Roxana, 2022. *Deutsch-rumänische Kulturvermittlung in Südosteuropa – der rumäniendeutsche Autor Oscar Walter Cisek*. În Auteri, Laura, Barrale, Natascia, Di Bella, Arianna, Hoffmann, Sabine (eds.): *Wege der Germanistik in transkultureller Perspektive. Akten des XIV. Kongresses der Internationalen Vereinigung für Germanistik*, Peter Lang, Berlin, p. 343-362, ISBN - 978-3-0343-3661-1 (Print) ISBN - 978-3-0343-4579-8 (eBook) ISBN - 978-3-0343-4580-4 (ePub) (capitol de carte publicat în străinătate)
DOI: 10.3726/b19960
<https://doi.org/10.3726/b19960>
<https://www.peterlang.com/document/1246814>
<https://library.oapen.org/bitstream/handle/20.500.12657/61452/9783034345798.pdf;jsessionid=66984C6C4F138781D621FF48890BEC47?sequence=1>

E. ARTICOLE / STUDII ÎN EXTENSO, PUBLICATE ÎN REVISTE

1. **Dascălu-Romițan, Ana-Maria**, „Translating means interpreting the text as if reading it aloud – only in another language” – Translating, interpreting, mediating: interpretative techniques using the example of Kobo Abe, *Studii de știință și cultură*, vol. XXI, Nr. 3, 2025, p. 136-146, ISSN print 1841-1401 / ISSN online 2067-5135, lucrare indexată BDI (EBSCO, CEEOL, ERIHPLUS, Index Copernicus, DOAJ, Scipio, Worldcat)
https://openurl.ebsco.com/c/t4a2lo/EPDB%3Agcd%3A16%3A12369696/detailv2?sid=ebsco%3Aplink%3Aresult-item&id=ebsco%3Agcd%3A187934222&bquery=Dascalu-Romitan%2C%20Ana%20Maria&page=1&link_origin=www.google.com&crl=f&x-cgp-token=t4a2lo

2. Dascălu-Romițan, Ana-Maria, „Übersetzen heißt, den Text zu interpretieren, als würde man ihn laut vorlesen – nur in einer anderen Sprache“ - Übersetzen, Deuten, Vermitteln: Interpretative Techniken am Beispiel Kobo Abes, *Studii de Știință și Cultură*, vol. 21, Issue 3, 2025. p. 136-146, ISSN print 1841-1401 / ISSN online 2067-5135, lucrare indexată BDI (EBSCO, CEEOL, ERIHPLUS, Index Copernicus, DOAJ, Scipio, Worldcat)
3. **Dascălu-Romițan, Ana-Maria**, Languages connect – Multilingualism, Intercomprehension and Translation (Sprachen verbinden – Mehrsprachigkeit, Interkomprehension und Übersetzung), *Studii de știință și cultură*, Volumul XX, Nr. 1, 2024, p. 73-83, ISSN print 1841-1401 / ISSN online 2067-5135, lucrare indexată BDI (EBSCO, CEEOL, ERIHPLUS, Index Copernicus, DOAJ, Scipio, Worldcat)
https://openurl.ebsco.com/EPDB%3Agcd%3A1%3A19194673/detailv2?sid=ebsco%3Aebsco.com%3Asearch&id=ebsco%3Agcd%3A176173830&bquery=Dascalu-Romitan%20Ana-Maria&page=1&link_origin=www.ebsco.com
4. **Dascălu-Romițan, Ana-Maria**, German Studies in Romania – The Journal „Temeswarer Beiträge zur Germanistik“ / Germanistik in Rumänien – Die Zeitschrift „Temeswarer Beiträge zur Germanistik“, *Studii de Știință și Cultură*, Volumul XX, Nr. 2, 2024, p. 100-106, ISSN print 1841-1401 / ISSN online 2067-5135, lucrare indexată BDI (EBSCO, CEEOL, ERIHPLUS, Index Copernicus, DOAJ, Scipio, Worldcat)
https://openurl.ebsco.com/EPDB%3Agcd%3A2%3A12600530/detailv2?sid=ebsco%3Aocu_results%3Acache&id=ebsco%3Agcd%3A177914340&bquery=Dasc%C4%83lu-Romi%C8%9Ban%2C%20Ana-Maria&page=1&link_origin=none&crl=f
5. Dascălu-Romițan, Ana-Maria, *Linguistic and Cultural Mediation in Teaching Foreign Languages / Sprach- und Kulturvermittlung im Fremdsprachenunterricht*, *Studii de Știință și Cultură*, Volumul XX, Nr. 3, 2024, p. 151-160, ISSN print 1841-1401 / ISSN online 2067-5135, lucrare indexată BDI (EBSCO, CEEOL, ERIHPLUS, Index Copernicus, DOAJ, Scipio, Worldcat)
https://openurl.ebsco.com/EPDB%3Agcd%3A15%3A12600559/detailv2?sid=ebsco%3Aocu_results%3Acache&id=ebsco%3Agcd%3A179541211&bquery=Dasc%C4%83lu-Romi%C8%9Ban%2C%20Ana-Maria&page=1&link_origin=none&crl=f
6. Dascălu-Romițan, Ana-Maria și Roxana Nubert, *Im Umbruch der Zeit: Richard Wagners Romane und rumäniendeutsche Bezüge*, *Germanistische Beiträge*, vol. 50, 2024, p. 98-119. ISSN 1454-5144, lucrare indexată BDI (Erih Plus, Ebsco, Index Copernicus, Sciendo)
7. Dascălu-Romițan, Ana-Maria, *Maschinelle Übersetzung im Spannungsfeld der Digitalisierung: Eine vergleichende Analyse von DeepL, Google Translate und ChatGPT*, *Professional Communication and Translation Studies*, vol. 18/2025,

Editura Politehnica Timișoara, 2025, ISSN 2065-099X. p. 188-204, lucrare indexată BDI (EBSCO, CEEOL, Index Copernicus, MLA, Worldcat)
DOI:10.59168/AIEL7659
<https://dspace.upt.ro/jspui/handle/123456789/7858> s

8. Dascălu-Romițan, Ana-Maria, *LANGUE, CULTURE ET MÉDIAS DANS L'ENSEIGNEMENT DE L'ALLEMAND COMME LANGUE ÉTRANGÈRE: NOUVELLES PERSPECTIVES POUR LES ÉTUDES RÉGIONALES À L'ÈRE NUMÉRIQUE* / *Sprache, Kultur und Medien im DaF-Unterricht: Neue Perspektiven für die Landeskunde im digitalen Zeitalter*, Studii de Știință și Cultură, Volumul XX, Nr. 4, 2024, p. 222-232, ISSN print 1841-1401 / ISSN online 2067-5135, lucrare indexată BDI (EBSCO, CEEOL, ERIHPLUS, Index Copernicus, DOAJ, Scipio, Worldcat)
https://openurl.ebsco.com/EPDB%3Agcd%3A13%3A12600589/detailv2?sid=ebsco%3Aocu_results%3Acache&id=ebsco%3Agcd%3A181745560&bquery=Dasc%C4%83lu-Romi%C8%9Ban%2C%20Ana-Maria&page=1&link_origin=none&cr=f
9. **Dascălu-Romițan, Ana-Maria** / Roxana Nubert, *Zu den Anfängen der deutschsprachigen Literatur im Banat – Kulturvergleichende Überlegungen*, Germanistische Beiträge, vol. 49, 2023, p. 30-49
<https://doi.org/10.2478/gb-2023-0002>
<https://reference-global.com/article/10.2478/gb-2023-0002>
http://uniblagu.eu/wp-content/uploads/2023/GB49_NubertDascalu_30.pdf
10. Dascălu-Romițan, Ana-Maria, *Auf den Spuren rumäniendeutscher Landeskunde im Europäischen Kulturhauptstadtjahr dank digitaler Technologien*, „Temeswarer Beiträge zur Germanistik“, Band 20, 2023, p. 198-208, ISSN 1453-7621, lucrare indexată BDI (CEEOL, MLA, BASE, KVK, EZB, ZDB, WorldCat)
<https://litere.uvt.ro/publicatii/TBG/pdf/TBG/TBG20.pdf>
11. **Dascălu-Romițan, Ana-Maria** / Roxana Nubert, *Nahe am Wahnsinn – Eine Auseinandersetzung mit Texten Herta Müllers*, Kronstädter Beiträge zur germanistischen Forschung / Brașov Yearbook of German Studies, Band 23, Aldus, Brașov, 2023, p. 146-157, ISSN 1842-9564 (DOAJ, CEEOL, Index Copernicus, EZB Regensburg, CrossRef)
DOI: 10.31926/KBzgF.2023.23.08
<https://doi.org/10.31926/KBzgF.2023.23.08>
https://germanistik.unitbv.ro/wp-content/uploads/2023/05/8.Nubert.Dascalu_2023.pdf
12. **Dascălu-Romițan, Ana-Maria** și Roxana Nubert. 2022. „Der Schriftsteller Franz Xaver Kappus als Vertreter der literarischen Moderne im Banat“. Germanistische Beiträge, vol. 48: 84-113.

13. **Dascălu-Romițan, Ana-Maria**, *Translation Studies Today – Teaching during the Coronavirus Pandemic – Übersetzungswissenschaft heute – Unterrichten in Zeiten der Corona-Pandemie*, „Studii de știință și cultură“, vol. XXVIII (2), Arad, 2022, p. 157-170, lucrare indexată BDI (EBSCO, CEEOL, ERIHPLUS, Index Copernicus, DOAJ, Scipio, Worldcat)

14. **Dascălu Ana-Maria** și Bogdan Mihai Dascălu, *Maiorescu integral în premieră*. Titu Maiorescu, Jurnal (XLVI). 1901, Convorbiri literare CLIV (1), 2022, p. 57-59, ISSN 1841-7647 / ISSN 1841-7634 / ISSN 0010-8243, lucrare indexată BDI (EBSCO, MLA, Worldcat, KVK)

15. **Dascălu Ana-Maria** și Bogdan Mihai Dascălu, *Maiorescu integral în premieră*. Titu Maiorescu, Jurnal (XL). 1901, Convorbiri literare CLIV (2), 2022, p. 60-63, ISSN 1841-7647 / ISSN 1841-7634 / ISSN 0010-8243, lucrare indexată BDI (EBSCO, MLA, Worldcat, KVK)

16. **Dascălu Ana-Maria** și Bogdan Mihai Dascălu, *Maiorescu integral în premieră*. Titu Maiorescu, Jurnal (XLI). 1901, Convorbiri literare CLIV (3), 2022, p. 48-50, ISSN 1841-7647 / ISSN 1841-7634 / ISSN 0010-8243, lucrare indexată BDI (EBSCO, MLA, Worldcat, KVK)

17. **Dascălu Ana-Maria** și Bogdan Mihai Dascălu, *Maiorescu integral în premieră*. Titu Maiorescu, Jurnal (XLII). 1901, Convorbiri literare CLIV (4), 2022, p. 51-53, ISSN 1841-7647 / ISSN 1841-7634 / ISSN 0010-8243, lucrare indexată BDI (EBSCO, MLA, Worldcat, KVK)

18. **Dascălu Ana-Maria** și Bogdan Mihai Dascălu, *Maiorescu integral în premieră*. Titu Maiorescu, Jurnal (XLIII). 1901, Convorbiri literare CLIV (5), 2022, p. 50-52, ISSN 1841-7647 / ISSN 1841-7634 / ISSN 0010-8243, lucrare indexată BDI (EBSCO, MLA, Worldcat, KVK)

19. **Dascălu Ana-Maria** și Bogdan Mihai Dascălu, *Maiorescu integral în premieră*. Titu Maiorescu, Jurnal (XLIV). 1901, Convorbiri literare CLIV (6), 2022, p. 45-47, ISSN 1841-7647 / ISSN 1841-7634 / ISSN 0010-8243, lucrare indexată BDI (EBSCO, MLA, Worldcat, KVK)

20. **Dascălu Ana-Maria** și Bogdan Mihai Dascălu, *Maiorescu integral în premieră*. Titu Maiorescu, Jurnal (XLVI). 1901, Convorbiri literare CLIV (8), 2022, p. 34-36, ISSN 1841-7647 / ISSN 1841-7634 / ISSN 0010-8243, lucrare indexată BDI (EBSCO, MLA, Worldcat, KVK)

21. **Dascălu Ana-Maria** și Bogdan Mihai Dascălu, *Maiorescu integral în premieră*. Titu Maiorescu, Jurnal (XLVI) 1901, Convorbiri literare CLIV (9), 2022, p. 54-56, ISSN 1841-7647 / ISSN 1841-7634 / ISSN 0010-8243, lucrare indexată BDI (EBSCO,

MLA, Worldcat, KVK)

22. **Dascălu Ana-Maria** și Bogdan Mihai Dascălu, Maiorescu integral în premieră. Titu Maiorescu, Jurnal (XLVI). 1901, Convorbiri literare CLIV (10), 2022, p. 48-50, ISSN 1841-7647 / ISSN 1841-7634 / ISSN 0010-8243, lucrare indexată BDI (EBSCO, MLA, Worldcat, KVK)
23. **Dascălu-Romițan, Ana-Maria**, Nubert, Roxana, *Postmoderne Übersetzung: Zur Funktion des antiken Mythos im 20. Jahrhundert am Beispiel von Christoph Ransmayrs Roman Die letzte Welt*, „Kronstädter Beiträge zur germanistischen Forschung“, Editura Aldus, Brașov, 2021, p. 63-78, ISSN 1842-9564 (DOAJ, CEEOL, Index Copernicus, EZB Regensburg, CrossRef)
24. **Dascălu-Romițan, Ana-Maria**. 2021. „Interkulturelle Begegnungen und Fremddarstellung im Reisebericht“. Temeswarer Beiträge zur Germanistik, vol 18: 97-116, ISSN 1453-7621, lucrare indexată BDI (CEEOL, MLA, BASE, KVK, EZB, ZDB, WorldCat)
<https://www.cceol.com/search/article-detail?id=1004042>
25. **Dascălu-Romițan, Ana-Maria**, *Communication and Translation Studies at the Politehnica University of Timișoara – in the Light of Multilingualism and Communication*, în Boldea, Iulian / Sigmirean, Cornel / Buda, Dumitru-Mircea (ed.): *Path of Communication in Postmodernity. Language and Discourse*, vol. 6, Arhipelag XXI Press, Tîrgu Mureș, 2020, p. 138-146, ISBN 978-606-8624-00-6 (in curs de indexare ISI)
<http://asociatia-alpha.ro/cci/06-2020/CCI-06-Lang-a.pdf>
26. **Dascălu-Romițan, Ana-Maria / Nubert, Roxana**, *Ein Vorbild - Bertold Brecht und die Aktionsgruppe Banat*, în „Kronstädter Beiträge zur germanistischen Forschung“, vol. 20, 2020, p.79-93, ISSN 1842-9564 (DOAJ, CEEOL, Index Copernicus, EZB Regensburg, CrossRef)
<https://www.cceol.com/search/article-detail?id=886146>
27. **Dascălu-Romițan, Ana-Maria / Nubert, Roxana**, *Aspekte sprachlicher Identität beim rumäniendeutschen Autor Richard Wagner*, în „Kronstädter Beiträge zur germanistischen Forschung“, vol. XIX, Editura Aldus, Brașov, Colecția Academica, 2020, p. 63-78, ISSN 1842-9564 (DOAJ, CEEOL, Index Copernicus, EZB Regensburg, CrossRef)
<https://www.cceol.com/search/journal-detail?id=2470>
28. **Dascălu-Romițan, Ana-Maria**, *Perspectives on Cultural Studies in Teaching German as a Foreign Language*, Boldea, Iulian / Sigmirean, Cornel (ed.), *The Proceedings of the International Conference Globalization, Intercultural Dialogue*

and National Identity. Section: Language and Discourse, 6 (Identity and Dialogue in the Era of Globalization. Language and Discourse), vol. 6 / 2019, Arhipelag XXI Press, Târgu-Mureș, 2019, p. 558-567, ISBN: 978-606-8624-19-8
<https://old.upm.ro/gidni/GIDNI-06/GIDNI-06%20Language.pdf>

29. **Dascălu-Romițan, Ana-Maria**, *Mehrsprachigkeit und interkultureller Dialog in Temeswar*, în „Germanistische Beiträge”, Universitatea „Lucian Blaga”, Sibiu, vol. 45, 2019, p. 78-93, ISSN 1454-5144
 DOI: <https://doi.org/10.2478/gb-2019-0021>
<http://web.a.ebscohost.com/abstract?site=ehost&scope=site&jrnl=14545144&AN=141621789&h=s4IMZIUwpSTWa3c34hR1OhtoRXkzi1IGAkWbZB0Fm2jzY9MiLMeX1d0LLq5XIVWLC9Ylr3SpNWZgge418LdOUw%3d%3d&crl=f&resultLocal=ErrCrlNoResults&resultNs=Ehost&crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d14545144%26AN%3d141621789>
<https://content.sciendo.com/view/journals/gb/45/1/article-p78.xml>

30. **Dascălu-Romițan, Ana-Maria**, Nubert, Roxana, *Deutsch-rumänische Sprachinterferenzen bei Herta Müller und Balhasar Waitz*, în „Germanistische Beiträge”, vol. 44, Universitatea „Lucian Blaga”, Sibiu, 2019, p. 87–102, ISSN 1454-5144
 DOI: <https://doi.org/10.2478/gb-2019-0005>
<http://web.a.ebscohost.com/abstract?site=ehost&scope=site&jrnl=14545144&AN=137371307&h=IXoO5Lk6sKK3W%2ftnpT8hmm%2bLJ%2bYoZCRzZHSI6ySHuHo1OoTL5Aj%2bG70Ay%2b7bLOJeFxXfBjLm2XZ4OX4iQmN%2fQ%3d%3d&crl=f&resultLocal=ErrCrlNoResults&resultNs=Ehost&crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d14545144%26AN%3d137371307>

31. Dascălu-Romițan, Ana-Maria, „Medien und Mediengesellschaft. Facetten des Medienbegriffs nach Ulrich Saxer”. „Temeswarer Beiträge zur Germanistik”, vol 17, Editura Mirton, Timișoara, 2021, p. 73-86, ISSN 1453-7621
<https://www.ceeol.com/search/article-detail?id=1015580>

32. **Dascălu-Romițan, Ana-Maria**, Nubert, Roxana, *Raumerfahrungen bei Oskar Walter Cisek*, „Germanistische Beiträge”, vol. 39, Universitatea „Lucian Blaga” din Sibiu, 2016, p. 29-46, ISSN 1454-5144

33. **Dascălu-Romițan, Ana-Maria**, Nubert, Roxana, *Das Bild der Diktatur in Herta Müllers Roman Herztier – Mit besonderer Berücksichtigung der sprachlichen Mittel*, „Germanistische Beiträge”, vol. 36, Universitatea „Lucian Blaga” din Sibiu, 2015, p. 13-32, ISSN 1454-5144

34. **Dascălu-Romițan, Ana-Maria**, *Die Rolle der visuellen Medien im DaF-Unterricht*, în „Scientific Bulletin of The Politehnica University of Timișoara”, Transactions on Modern Languages, volume 14, Issue 1, Timișoara, Editura Politehnica, 2015, p. 91-103, ISSN 1583-7467
35. **Dascălu-Romițan, Ana-Maria**, *Methoden und Verfahren der Fremddarstellung im Reisebericht*, „Temeswarer Beiträge zur Germanistik”, vol. 12, Editura Mirton, Timișoara, 2015, p. 333-348, ISSN 1453-7621
https://www.worldcat.org/title/temeswarer-beitrage-zur-germanistik/oclc/935329047&referer=brief_results
36. **Dascălu-Romițan, Ana-Maria** / Nubert, Roxana, *Der Nobelpreis für Literatur: Atemschaukel*, în „Temeswarer Beiträge zur Germanistik”, vol. 10, Editura Mirton, Timișoara, 2013, p. 33-58, ISSN 1453-7621
https://www.worldcat.org/title/temeswarer-beitrage-zur-germanistik/oclc/935329047&referer=brief_results

F. PUBLICAȚII ÎN EXTENSO, APĂRUTE ÎN VOLUME ALE CONFERINȚELOR INTERNAȚIONALE

1. **Dascălu-Romițan, Ana-Maria**, *The Journal Temeswarer Beiträge zur Germanistik – A Quarter of a Century in the Service of German Studies in Timișoara*, David Ioan (ed.), *Catedra și publicațiile sale. Presa instituțiilor educației, instrucției și formării profesionale. Lucrările Congresului Internațional de Istorie a Presei*, Academia Română, David Press Print, Timișoara, 2023, ISBN 978-606-999-202-9
2. **Dascălu-Romițan, Ana-Maria**, *Le Banat – Espace interculturel*, în volumul: *Centenarul Banatului: 1919-2019. Lucrări prezentate la Simpozionul științific internațional din 28-29 iunie 2019*, Academia Română, Editura Academiei Române / Editura David Press Print, Timișoara, 2019, p. 477-486, ISBN 978-973-27-3095 ; ISBN 978-606-999-071-1
3. **Dascălu-Romițan, Ana-Maria**, *Übersetzung, Transkription und interkulturelles Verständnis*, în „Temeswarer Beiträge zur Germanistik”, vol. 16, Editura Mirton, Timișoara, 2019, p. 235-252, lucrare indexată BDI (CEEOL, MLA, BASE, KVK, EZB, ZDB, WorldCat)
4. **Dascălu-Romițan, Ana-Maria**, Nubert, Roxana, *Pendler zwischen Literatur und Politik: Richard Wagner - Mit besonderer Berücksichtigung seiner Romane*, în „Analele Universității de Vest din Timișoara. Seria Științe Filologice”, LI-LII / 2013-2014, Editura Universității de Vest, Timișoara, 2013, p. 161-170, ISSN

5. **Dascălu-Romițan, Ana-Maria**, Dascălu, Bogdan, *Titu Maiorescus Tagebuch – multikulturelle Aspekte*, „Temeswarer Beiträge zur Germanistik”, vol. 7, Editura Mirton, Timișoara, 2010, p. 347-354

https://www.worldcat.org/title/temeswarer-beitrage-zur-germanistik/oclc/935329047&referer=brief_results

G. ALTE LUCRĂRI ȘI CONTRIBUȚII ȘTIINȚIFICE

Colaborări / coautor la lucrări fundamentale sau de referință (dicționare, enciclopedii, atlase, tratate)

Colaborare / Coautoare la ***Enciclopedia Banatului. Vol. Literatură***, Crișu Dascălu (coord. general) / Doina Bogdan-Dascălu (coord. principal), Academia Română, Institutul de Studii Banatice „Titu Maiorescu”, Societatea Enciclopedică a Banatului, Editura David Press Print, Timișoara, 2016, ISBN: 978-606-8643-78-6 / ISBN: 978-606-8643-72-4

Traduceri / Dotarea unei traduceri cu aparat critic (note bio-bibliografice, note și comentarii)

1. Dascălu, Bogdan / Dascălu, Crișu / **Romițan, Ana-Maria**, *Rainer Maria Rilke, Jurnal de tinerețe. Traducere din limba germană de Bogdan Mihai Dascălu ; Note de Ana-Maria Romițan ; Traducerea versurilor de Crișu Dascălu ; Postfață de Aura Christi*, Editura Ideea Europeană, București, 2007, ISBN 978-606-594-010-9
2. Dascălu, Bogdan / Dascălu, Crișu / **Romițan, Ana-Maria**, *Rainer Maria Rilke / Jurnal. Traducere din limba germană de Bogdan Mihai Dascălu ; Note de Ana-Maria Romițan ; Traducerea versurilor de Crișu Dascălu, Prefață de Aura Christi*, Editura Ideea Europeană, București, 2010, ISBN 978-606-594-048-2
3. Dascălu, Bogdan / Dascălu, Crișu / **Romițan, Ana-Maria**, *Rainer Maria Rilke / Jurnal*, Traducere din limba germană de Bogdan Mihai Dascălu. Traducerea versurilor Crișu Dascălu. Note de Ana-Maria Romițan. Prefață de Aura Christi, Colectia 100 Capodopere, Editura Ideea Europeană, București, 2018, ISBN 978-606-594-619-4
4. **Dascălu, Ana-Maria** / Dascălu, Bogdan, *Titu Maiorescu. Opere. Jurnal. Vol. I (1855 - 1882)*, Academia Română, Fundația Națională pentru Știință și Artă, București,

2013, ISBN 978-606-555-101-5

5. **Dascălu, Ana-Maria** / Dascălu, Bogdan, *Titu Maiorescu. Opere. Jurnal, vol. II. 1883-1889*, Academia Română, Fundația Națională pentru Știință și Artă, București, 2017, ISBN 978-606-555-188-6
6. **Dascălu, Ana-Maria** / Dascălu, Bogdan, *Titu Maiorescu. Opere. III. Jurnal, vol. III. 1890-1897*, Academia Română, Fundația Națională pentru Știință și Artă, București, 2017, ISBN 978-606-555-189-3
7. **Dascălu, Ana-Maria** / Dascălu, Bogdan, *Titu Maiorescu, Scrieri. I. Memorialistică*, Text stabilit, traducere, note și glosar de Ana-Maria Dascălu și Bogdan Dascălu. Notă asupra ediției de Bogdan Dascălu, Editura David Press Print, Timișoara, 2017, ISBN 978-606-8643-75-5
8. **Dascălu, Ana-Maria** / Dascălu, Bogdan, *Titu Maiorescu, Scrieri. II. Memorialistică*, Text stabilit, traducere, note și glosar de Ana-Maria Dascălu și Bogdan Dascălu. Notă asupra ediției de Bogdan Dascălu, Editura David Press Print, Timișoara, 2017, ISBN 978-606-8643-91-5
9. **Dascălu, Ana-Maria** / Dascălu, Bogdan, *Titu Maiorescu, Scrieri. III. Memorialistică*, Text stabilit, traducere, note și glosar de Ana-Maria Dascălu și Bogdan Dascălu. Notă asupra ediției de Bogdan Dascălu, Editura David Press Print, Timișoara, 2018, ISBN 978-606-999-056-8
10. **Dascălu, Ana-Maria** (trad.), Thiel, Siegfried, Ciortea-Neamțiu, Ștefana, Ardelean, Adrian, *Medienwirksam vor Diktiergerät und Kamera. Ein Leitfadens für alle, die mit Medien und PR zu tun haben – Fără trac în fața reportofonului și a camerei de filmat. Un ghid pentru toți cei interesați de educația media și de relații publice*. Traducere în limba română de **Ana-Maria Dascălu-Romițan**, Banater Zeitung Temeswar, Demokratisches Forum der Deutschen im Banat, 2024.
11. **Dascălu, Ana-Maria** (trad.), Thiel, Siegfried, Ciortea-Neamțiu, Ștefana, Ardelean, Adrian, *Medienwirksam vor Diktiergerät und Kamera. Ein Leitfadens für alle, die mit Medien und PR zu tun haben – Fără trac în fața reportofonului și a camerei de filmat. Un ghid pentru toți cei interesați de educația media și de relații publice*. Ediție adăugită. Traducere în limba română de **Ana-Maria Dascălu-Romițan**, Banater Zeitung Temeswar, Demokratisches Forum der Deutschen im Banat, 2025.

Alte lucrări publicate în reviste sau volume de specialitate, volume omagiale / colective

1. **Dascălu-Romițan, Ana-Maria**, *Educația competențelor verzi prin inteligența*

artificială și traducerea resurselor pentru proiecte de viitor, în Daniela Șilindean (coord.), Iulia Cristina Frînculescu, Florentin Crăineanu (editori): *Limba și cultură – Între tradiție și A. I. / Language and Culture – Between Tradition and A. I.*, Editura Victor Babeș, Timișoara, 2025, p. 25-27, ISBN 978-606-786-509-7

https://www.umft.ro/wp-content/uploads/2025/12/Limba-si-cultura-Language-and-Culture_editura-ebook_M_2025-1.pdf

2. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal (XVIII)*. 1899, în „Convorbiri literare”, CLII, nr. 1, 2020, p. 40-41, ISSN 0010-8243 (revistă indexată Ebsco)
3. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal (XIX)*. 1899, în „Convorbiri literare”, CLII, nr. 2, 2020, p. 37-39, ISSN 0010-8243 (revistă indexată Ebsco)
4. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal (XIX)*. 1899, în „Convorbiri literare”, CLIII, nr. 3, 2020, p. 42-44, ISSN 0010-8243 (revistă indexată Ebsco)
5. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal (XX)*. 1899, în „Convorbiri literare”, CLIII, nr. 4, 2020, p. 41-44, ISSN 0010-8243 (revistă indexată Ebsco)
6. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal (XXI)*. 1899, în „Convorbiri literare”, CLIII, nr. 5, 2020, p. 35-37, ISSN 0010-8243 (revistă indexată Ebsco)
7. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal (XXII)*. 1899, în „Convorbiri literare”, CLIII, nr. 6, 2020, p. 25-27, ISSN 0010-8243 (revistă indexată Ebsco)
8. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal (XXII)*. 1899, în „Convorbiri literare”, CLIII, nr. 7, 2020, p. 40-42, ISSN 0010-8243 (revistă indexată Ebsco)
9. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal (XXIII)*. 1899, în „Convorbiri literare”, CLIII, nr. 8, 2020, p. 56-58, ISSN 0010-8243 (revistă indexată Ebsco)
10. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal (XXIV)*. 1899, în „Convorbiri literare”, CLIII, nr. 9, 2020, p. 47-49, ISSN 0010-8243 (revistă indexată Ebsco)
11. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal (XXV)*. 1899, în „Convorbiri literare”, CLIII, nr. 10, 2020, p. 52-54, ISSN 0010-8243 (revistă indexată Ebsco)

indexată Ebsco)

12. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal (XXV)*. 1899, în „Convorbiri literare”, CLIII, nr. 11, 2020, p. 52-54, ISSN 0010-8243 (revistă indexată Ebsco)
13. **Dascălu-Romițan, Ana-Maria**, *Bildung in Zeiten von Corona – Änderungen, Herausforderungen und Chancen*, Allgemeine Deutsche Zeitung für Rumänien, BZ, 30 (7329), Demokratisches Forum der Deutschen im Banat, Timișoara, 2022, p. III, ISSN 1221-7956, ISSN 1841-4346
14. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal nr. 18 (IX)*. 1898, în „Convorbiri literare”, CLI, nr. 1, 2019, p. 37-41, ISSN 0010-8243 (revistă indexată Ebsco)
15. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal nr. 18 (X)*. 1898, în „Convorbiri literare”, CLI, 2019, nr. 2, 2019, p. 49-53, ISSN 0010-8243 (revistă indexată Ebsco)
16. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal nr. 18 (XI)*. 1898, în „Convorbiri literare”, CLII, nr. 3, 2019, p. 43-46, ISSN 0010-8243 (revistă indexată Ebsco)
17. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal nr. 18 (XII)*. 1898, în „Convorbiri literare”, CLII, nr. 4, 2019, p. 42-45, ISSN 0010-8243 (revistă indexată Ebsco)
18. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal (XIII)*. 1899, în „Convorbiri literare”, CLII, nr. 5, 2019, p. 53-56, ISSN 0010-8243 (revistă indexată Ebsco)
19. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal (XIV)*. 1899, în „Convorbiri literare”, CLII, nr. 6, 2019, p. 34-37, ISSN 0010-8243 (revistă indexată Ebsco)
20. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal (XV)*. 1899, în „Convorbiri literare”, CLII, nr. 7, iulie 2019, p. 47-49, ISSN 0010-8243 (revistă indexată Ebsco)
21. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal 20 (XV)*. 1899, în „Convorbiri literare”, CLII, nr. 8, 2019, p. 43-46, ISSN 0010-8243 (revistă indexată Ebsco)
22. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal nr. 20 (XV)*. 1899, în „Convorbiri literare”, CLII, nr. 9, 2019, p. 39-41, ISSN 0010-8243 (revistă indexată Ebsco)

indexată Ebsco)

23. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal nr. 20 (XV). 1899*, în „Convorbiri literare”, CLII, nr. 10, 2019, p. 34-36, ISSN 0010-8243 (revistă indexată Ebsco)
24. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal (XXVI). 1899*, în „Convorbiri literare”, CLII, nr. 11, 2019, p. 41-42, ISSN 0010-8243 (revistă indexată Ebsco)
25. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal (XVII). 1899*, în „Convorbiri literare”, CLII, nr. 12, 2019, p. 40-42, ISSN 0010-8243 (revistă indexată Ebsco)
26. **Dascălu-Romițan, Ana-Maria**, *Limbă și cultură germană în Banat, între tradiție și viitor*, în: *25 de ani de comunicare și traductologie în Universitatea Politehnica Timișoara, 1993-2018*, editori: Daniel Dejica-Carțiș, Gabriel Mugurel Dragomir, Vasile Gherheș, Simona Șimon, Editura Politehnica, Timișoara, Editura Pro Universitaria, București, 2018, p. 150-153, ISBN 978-606-35-0236-1, ISBN 978-606-26-0983-2
https://www.sc.upt.ro/attachments/article/312/25_comunicare_trad_full.pdf
27. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal nr. 18. 1898*, în „Convorbiri literare”, CLI, nr. 2, 2018, p. 45-48, ISSN 0010-8243 (revistă indexată Ebsco)
28. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal nr. 18. 1898*, în „Convorbiri literare”, CLI, nr. 3, 2018, p.37-41, ISSN 0010-8243 (revistă indexată Ebsco)
29. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal nr. 18. 1898*, „Convorbiri literare”, CLI, nr. 4, 2018, p.55-63, ISSN 0010-8243 (revistă indexată Ebsco)
30. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal nr. 18. 1898*, în „Convorbiri literare”, CLI, nr. 5, 2018, p.50-54, ISSN 0010-8243 (revistă indexată Ebsco)
31. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal nr. 18. 1898*, în „Convorbiri literare”, CLI, nr. 10, 2018, p. 43-47, ISSN 0010-8243 (revistă indexată Ebsco)
32. **Dascălu Ana-Maria** / Bogdan Mihai Dascălu, *Titu Maiorescu, Jurnal nr. 18. 1898*, în „Convorbiri literare”, CLI, nr. 11, 2018, p. 44-48, ISSN 0010-8243 (revistă indexată Ebsco)

33. **Dascălu-Romițan, Ana-Maria**, *Doina*, în *In honorem magistrae. Doina Bogdan Dascălu 75*, vol. îngrijit de acad. Păun Ion Otiman, acad. Costa Roșu, prof. univ. dr. Vasile Goșa și conf. univ. dr. Ioan David, Academia Română, Editura David Press Print, Timișoara, 2017, p.62-64, ISBN 978-606-999-011-7
34. **Dascălu-Romițan, Ana-Maria**, *Aniversară*, în *In honorem magistri. Crișu Dascălu 75*, vol. îngrijit de acad. Păun Ion Otiman, și conf. univ. dr. Ioan David, Academia Română, Editura David Press Print, Timișoara, 2017, p. 35, ISBN 978-606-8643-45-8
35. **Dascălu-Romițan, Ana-Maria**, *Die ewige Sehnsucht nach Liebe – Amori, passioni, dolori in Ugo Foscolos Sonetti*, în „Synthesis“, XLI (2014), Editura Academiei Române, București, 2015, p. 35-45, ISSN 0256-7245
36. **Dascălu-Romițan, Ana-Maria**, *Ugo Foscolos Sonetti*, „Synthesis“, XL / 2013, Editura Academiei Române, București, 2014, p. 57-76, ISSN 0256-7245
37. **Dascălu-Romițan, Ana-Maria**, *Das schwäbische Banat in Herta Müllers und Johann Lippets Kurzprosa*, în „Revista de studii banatice“, Academia Română, Filiala Timișoara, Institutul de Studii Banatice „Titu Maiorescu“, Editura Academiei Române, 2013, p. 91-107, ISSN 2069-3338
38. **Romițan, Ana-Maria**, *Zum Doppelgänger motiv bei E. T. A. Hoffmann*, în „Synthesis“, XXXVII / 2010, Institutul de Istorie și Teorie Literară „G. Călinescu“, Academia Română, Editura Academiei Române, București, 2011, p. 51-58, ISSN 0256-7245
39. **Dascălu-Romițan, Ana-Maria**, *Pe urmele lui George Simenon*, în „Contemporanul-Ideea Europeană“, XXI, nr. 2 (695), 2010, p. 25, ISSN 1220-9864
40. **Dascălu, Ana-Maria, Dascălu, Bogdan, Titu Maiorescu**. *Auf den Spuren eines Europäers*, „Synthesis“, XXXVI/2009, Institutul de Istorie și Teorie Literară „G. Călinescu“, Academia Română, Editura Academiei Române, București, 2010, p. 45-54, ISSN 0256-7245
41. **Romițan, Ana-Maria**, *Acvaticul în publicitate*, în *Analele Universității „Tibiscus“*, Seria Jurnalistică, XII, 2007, p. 92-104, ISSN 145-6188
42. **Dascălu-Romițan, Ana-Maria**, *Penser l'Europe, gândind Europa împreună*, în „Caiete critice“, 2008, nr. 8-9, Fundația Națională pentru Știință și Artă, Academia Română, București, p. 92-96, ISSN 1220-6350
43. **Dascălu, Ana-Maria, Dascălu, Bogdan, Titu Maiorescu** – *O călătorie de Crăciun*,

în Lucian Chișu (ed.), *Eugen Simion – 75. Ediție omagială*, Editura Semne, București, 2008, p.175-182, ISBN 973-624-690-6

44. **Dascălu-Romițan, Ana-Maria**, *Viena – capitala multiculturală a unui european multicultural*, în „Revista de istorie și teorie literară”, II, 2008, nr. 3-4, Institutul de Istorie și Teorie Literară „G. Călinescu”, Academia Română, Editura Academiei Române, București, p. 261-264, ISSN 0034-8392
45. **Dascălu-Romițan, Ana-Maria**, *Cuvântul anului în Germania. Top 10*, în „Cultura”, IV, 2009, nr. 1, Fundația Culturală Română, București, p. 32, ISSN 2285-5629
46. **Dascălu-Romițan, Ana-Maria**, *Berlinala – o fereastră spre lume*, în „Cultura”, IV, 2009, nr. 8, Fundația Culturală Română, București, p. 26, ISSN 2285-5629
47. **Dascălu-Romițan, Ana-Maria**, *Wann? – Wenn nicht jetzt! Wer? – Wenn nicht wir!*, în *Stafette*, Editura Cosmopolitan Art, Timișoara, 2004, p. 72-76
48. **Dascălu-Romițan, Ana-Maria**, *Der Abendstern*, în *Stafette*, Editura Mirton, Timișoara, 1995, p. 103-111, ISBN 973-587-006-2

Alte lucrări apărute în publicații neindexate

1. Dascălu-Romițan, Ana-Maria, *Kulturerlebnis Temeswar – Kultur in Temeswar anders erleben*, Allgemeine Deutsche Zeitung für Rumänien, 31. Jahrgang Nr. 7700, BZ, Nr. 1545, 2023, p. IV, ISSN 1221-7956, ISSN 1841-4346

A N E X A 4 . 1

Nume Prenume: IONESCU DAN ZENOBIU

Gradul didactic: Conferențiar

Instituția unde este titular: Universitatea Politehnica Timișoara

Departamentul: Educație Fizică și Sport

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

”Direcții de perfecționare a managementului activităților sportive de performanță”, Universitatea de Vest din Timișoara, 13.11.2009

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Varga Mihaela, Ionescu Dan, <i>Ghid sportiv – Baschet</i> , Editura Eurostampa, 2015, 978-606-32-0099-1, 4 pagini
2. Mihai Alexandru, Dan Ionescu, <i>Bazele pregătirii fizice a micilor tenismeni</i> Editura Universității Transilvania, Brașov 2018, ISBN 978-606-19-1002-1, 106 pagini
3. Mihai Alexandru, Dan Ionescu, <i>Optimizarea puterii reactive în execuția procedeelor tehnice în jocul de tenis</i> Editura Universității Transilvania, Brașov 2018, ISBN 978-606-19-1019-9, 132 pagini

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

Nr.	Anul	Autor(i)	Titlu articol	Revista/conferința	ISSN/ISBN	Cotație
1.	2015	Ion Mirel, Doina Penția, Constantin Florescu, Dan Ionescu	<i>Water treatment from swimming pool, piscine and swimming basins</i>	Scientific Bulletin of Politehnica University of Timișoara - Transactions on HYDROTECHNICS, Volume 60(74), Issue 2	ISSN 1224- 6042 ISSN-L 1224- 6042	BDI
2.	2015	Dan Ionescu	<i>Research concerning the ball screen in basketball</i>	Timisoara Physical Education and Rehabilitation Journal volume 7, Issue 14/2015		BDI
3.	2016	Dan Ionescu	<i>Study regarding the efficiency of the female players from the BCM Danzio Timisoara basketball team</i>	Timisoara Physical Education and Rehabilitation Journal, volume 9, Issue 16/2016		BDI
4.	2017	Dan Ionescu	<i>Study on free throws in the romanian men's national league of basketball</i>	Timisoara Physical Education and Rehabilitation Journal, volume 10, Issue 18/2017		BDI

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1.	2015	9	Editor: Marius Vasiliuță Ștefănescu Ionescu Dan Mihaela Varga	<i>Emotional intelligence (E.Q.) in sports</i>	Social research: Practice and Theory, Editura Pro Universitaria, ISBN 978-606-26-0319-9
2.	2015	9	Editor: Marius Vasiliuță Ștefănescu Ionescu Dan Andreea Vlase	<i>Mass media influence on homosexuality in sport</i>	Social research: Practice and Theory, Editura Pro Universitaria, ISBN 978-606-26-0319-9
3.	2015	9	Editor: Marius Vasiliuță Ionescu Dan, Alina Rusu	<i>The importance of intelligence in sports activities</i>	Social research: Practice and Theory, Editura Pro Universitaria, ISBN 978-606-26-0319-9

- Selecție cu maximum 20 lucrări în volume de conferințe

1. Dan Ionescu, Mihai Alexandru, Gabriela Gui-Bachner, Alin Molcuț, *Study regarding the main ways of getting in the ball possession in Romanian basketball*, Timisoara Physical Education and Rehabilitation Journal, volume 13, issue 24/2020
2. Dan Ionescu, Rareș Cosmin Prișcă, *Study regarding the game parameters of the national men's basketball league and of the national team at Eurobasket 2017*, Timisoara Physical Education and Rehabilitation Journal, volume 10, issue 19/2017
3. Dan Ionescu *Study on free throws in the romanian men's national league of basketball*, Timisoara Physical Education and Rehabilitation Journal, volume 10, issue 18/2017
4. Dan Ionescu, *Study regarding the efficiency of the female players from the BCM Danzior Timișoara basketball team*, Timisoara Physical Education and Rehabilitation Journal, volume 7, issue 16/2016
5. Stăniloiu, C., Florescu, C., Ionescu, D., Alexandru, M., *Pools and surface waters for recreation and sport* Scientific Bulletin of Politehnica University of Timișoara - Transactions on HYDROTECHNICS, Volume 61(75), Issue 2, 2016
6. Dan Ionescu, Alina Rusu, *The importance of intelligence in sports activities*, Social research : Practice and Theory / Ed. Marius Vasiliuță Ștefănescu, Editura Pro Universitaria, București 2015, p. 500-506, ISBN 978-606-26-0319-9
7. Dan Ionescu, Mihaela-Giorgiana Varga, *Emotional intelligence (E.Q.) in sports*, Social research: Practice and Theory / Ed. Marius Vasiliuță Ștefănescu, Editura Pro Universitaria, București 2015, p. 467-472, ISBN 978-606-26-0319-9

8. Ion Mirel, Doina Penția, Constantin Florescu, Dan Ionescu, *Water treatment from swimming pool, piscine and swimming basins*, Scientific Bulletin of Politehnica University of Timișoara - Transactions on HYDROTECHNICS, Volume 60(74), Issue 2, 2015
9. Dan Ionescu, Andreea Iulia Vlase, *Mass media influence on homosexuality in sport*, Social research: Practice and Theory / Ed. Marius Vasiliuța Ștefănescu, Editura Pro Universitaria, București 2015, p. 507-519, ISBN 978-606-26-0319-9
10. Dan Ionescu, *Research concerning the ball screen in basketball*, Timisoara Physical Education and Rehabilitation Journal, volume 7, issue 14/2015

E. Brevete obținute în întreaga activitate

1.

Data: 27.05.2026

E – Brevete (pentru întreaga activitate)

Semnătura:

A N E X A 4 . 1

Nume Prenume: ...Tirtirau (Ciurdariu) Loredana.....

Gradul didactic:Lector.....

Instituția unde este titular:POLITEHNICA.....

Facultatea:Departamentul de Matematica.....

Departamentul:MATEMATICA.....

L I S T A**lucrărilor științifice în domeniul disciplinelor din postul didactic****A. Teza de doctorat**

L. Ciurdariu, Clase de operatori liniari pe spații pseudohilbertiene și aplicații, coordonator științific Prof. univ. dr. Dumitru Gaspar, susținută în anul 2005, 160 pag.

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. L. Ciurdariu, Classes of Linear operators on pseudo-Hilbert spaces and applications. Part I. Monografii Matematice, Tipografia Universității de Vest din Timisoara, Nr 79, 2006, ISSN: 145-3-7702, pag. 75.
2. L. Ciurdariu, Classes of Linear operators on pseudo-Hilbert spaces and applications. Part II. Monografii Matematice, Tipografia Universității de Vest din Timisoara, Nr 82, 2008, ISSN: 145-3-7702, pag 244 vol 1 și 2.
3. L. Ciurdariu, Matematici asistate de calculator, Ed. Politehnica, Timisoara, 2017, ISBN 978-606-554-387-4, pag. 423.
4. L. Ciurdariu, Algebra și Geometrie, Ed. Politehnica, Timisoara, 2016, ISBN 978-606-35-0078-7, pp. 262.
5. L. Ciurdariu, Curs de Algebra și Geometrie. Partea I. Algebra liniară, Lecturile I-V, Ed. Politehnica Timisoara, 2018, ISBN 978-606-35-0269-9, pp. 154.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. L. Ciurdariu, Some Hermite-Hadamard type inequalities, Int. J. Math. Analysis, 2017, 11, 11, , 531-541.
2. L. Ciurdariu, A note on invariant norms, Int. Journal of Math. Analysis, 2015, 9(43), pp. 2111-2119.

3. L. Ciurdariu, Inequalities for Selfadjoint Operators on Hilbert Spaces and pseudo-Hilbert Spaces, Applied Mathematical Sciences, 2015, 9(112), pp. 5573-5582.
4. L. Ciurdariu, Several inequalities for positive operators on Hilbert spaces, Applied Mathematical Sciences, 2015, 9(15), pp. 713-720.
5. L. Ciurdariu, About some inequalities for positive operators on Hilbert spaces, Far East Journal of Mathematical Sciences, 2015, 97(3), pp. 267-282.
6. L. Ciurdariu, A refinement of an inequality for positive operators on pseudo-Hilbert spaces, Int. Journal of Math. Analysis, 2015, 9(30), pp. 1453-1461.
7. Moza, G., Grecu, E., Tirtirau(Ciurdariu), L., *Analysis of a nonlinear financial model*, Carpathian Journal of Mathematics, 2022, Vol.38, Issue 2, 477-487.
8. L. Ciurdariu, Z-valued positive definite and negative definite kernels, Proceedings of the Eleventh Symposium of Mathematics and its Applications, Timisoara, 2006, 2-5 November, 1224-6069, pp. 82-88.
9. L. Ciurdariu, Gramian analytic operators and gramian multi-analytic operators, Proceedings of the Twelfth Symposium of Mathematics and its Applications, Timisoara, 2009, 5-7 November, 1224-6069, pp. 6.
10. L. Ciurdariu, Hermite-Hadamard type inequalities for fractional integrals, Int. J. Math. Analysis, 11(13), 625-634, 2017.
11. G. Tigan, J. Llibre, L. Ciurdariu, Degenerate Fold-Hopf Bifurcations in a Rossler-Type System, Int. J. Bifurc. Chaos 27(5), 1-8, 2017.
12. L. Ciurdariu, New Powr Series Inequalities and Applications, Int. J. Math. Analysis, 2017, 11, no. 20, 973-986.
13. L. Ciurdariu, S. Lugojan, Several Applications of a local non-convex Young-type inequality, Aust. J. Math. Anal. Appl., 2020, 17, 1, Art. 10, 8pp.
14. G. Tigan, S. Lugojan, L. Ciurdariu, Analysis of degenerate Chenciner bifurcation, Int. J. Bifurc. Chaos, Vol 30, No. 16, 2020, 2050245, 11 pp.
15. S. Lugojan, L. Ciurdariu, A generalization of Young's inequality and some applications, Sci. Bull. UPT., vol. 63(77), issue 2, p.49-56, 2018.
16. L. Ciurdariu, S. Lugojan, Application of non-convex Young's inequality in Hilbert spaces, Sci. Bull. UPT, vol. 63 (77), issue 2, p57-61, 2018.

17. Lugojan, S., **Ciurdariu, L.**, Grecu, E., *Chenciner Bifurcation Presenting a Further Degree of Degeneration*, Mathematics, 2022, Vol. 10, Issue 9, 1603.
18. Lugojan, S., **Ciurdariu, L.**, Grecu, E., *New Elements of Analysis of a Degenerate Chenciner Bifurcation*, Symmetry-Basel, 2022, Vol.14, Issue 1, 77.
19. Lugojan, S., **Ciurdariu, L.**, Grecu, E., *Another Case of Degenerated Discrete Chenciner Dynamic System and Economics*, Mathematics, 2022, Vol. 10, Issue20, 3782.
20. **Ciurdariu, L.**, Grecu, E., *Post-Quantum Integral Inequalities for Three-Times (p, q) -Differentiable Functions*, Symmetry-Basel, 2023, Vol.15, Issue1, 246
21. **Ciurdariu, L.**, Grecu, E., *Several Quantum Hermite-Hadamard-Type Integral Inequalities for Convex Functions*, Fractal and Fractional, 2023, Vol.7, Issue 6, 463.
22. **Ciurdariu, L.**, Grecu, E., *New Perspectives of Symmetry Conferred by q -Hermite-Hadamard Type Integral Inequalities*, Symmetry-Basel, 2023, Vol.15, Issue 8, 1514.
23. **Ciurdariu, L.**, Grecu, E., *On q -Hermite-Hadamard Type Inequalities via s -Convexity and (α, m) -Convexity*, Fractal and Fractional, 2024, Issue 8, 12, page
24. **Ciurdariu, L.**, Grecu, E., *Hermite-Hadamard-Mercer-Type Inequalities for three-times differentiable functions*, Axioms, 2024, 13, 413.
25. Y. Sayyari, H. Barsam, **Ciurdariu L.**, *A new Refinement of Jensen-Type Inequality with respect to uniformly convex functions with applications in information theory*, Journal of Mathematical Inequalities, 2023, Vol.17, Number 4, 1311-1322.
26. A.S. Alshehry, **Ciurdariu L.**, Y. Saber, A.F. Soliman, *Some New Estimations of Left and Right Interval Fractional Pachpatte's Type Integral Inequalities via Rectangle Plane*, Axioms, 2024, 13, 417.
27. A.S. Alshehry, **Ciurdariu L.**, Y. Saber, A.F. Soliman, *Some New Estimations of Ostrowski-Type Inequalities for Harmonic fuzzy Number Convexity via Gamma, Beta and Hypergeometric Functions*, Axioms, 2024, 13, 455.
28. S. Mirzadeh, H. Barsam, **Ciurdariu L.**, *Characterizations of minimal elements of upper support with applications in minimizing DC functions*, Open Mathematics, 2024, 22:20240030.
29. N. Z. Ali, A.G. Khan, M.U. Awan, **Ciurdariu L.**, K. Brahim, *Design and Applicability of Two-Step Fractional Newton-Raphson Method*, Fractal and Fractional, 2024, 8, 582.
30. M.Z. Javed, M.U. Awan, **Ciurdariu L.**, S.S. Dragomir, Y. Almalki, *On Extended Class of Totally Ordered Interval-Valued Convex Stochastic Processes and Applications*, Fractal and Fractional, 2024, 8, 577.
31. T. Hussain, **Ciurdariu L.**, E. Grecu, *A new Inclusion on Inequalities of the Hermite-Hadamard-Mercer Type for three-times Differentiable Functions*, Mathematics, 2024, 12, 3711.
32. Q. Liu, Rukhsar, M.U. Awan, B. Bin-Mohsin, M. Z. Javed, **Ciurdariu L.**, B. Meftab, *Bridging Pre-Invex Mapping and Fractional Integrals: A Pathway to Iterative Schemes via Error Boundedness of Maclaurin's Rule*, Fractal and Fractional, 2024, 8, 734.

33. H. Barsam, S. Mirzadeh, Y. Sayyari, **Ciurdariu L.**, *On Quantum Hermite-Hadamard-Fejer Type Integral Inequalities via Uniformly Convex Functions*, Fractal and Fractional, 2025, 9, 108.
34. W. Haider, A. Mateen, H. Budak, A. Shehzadi, **Ciurdariu L.**, *Novel Fractional Boole's-Type Integral Inequalities via Caputo Fractional Operator and Their Implications in Numerical Analysis*, Mathematics, 2025, 13, 551.
35. T. Hussain, **Ciurdariu L.**, E. Grecu, *New Perspectives of Hermite-Hadamard-Mercer-Type Inequalities Associated with Ψ_k -Raina's Fractional Integrals for Differentiable Convex Functions*, Fractal and Fractional, 2025, 9, 203.
36. M.Z. Javed, M. U. Awan, **Ciurdariu L.**, O. M. Alsalamy, *Pseudo-ordering and δ^1 -level mappings: A study in fuzzy interval convex analysis*, AIMS Mathematics, 2025, 10(3), 7154-7190.
37. Q. Liu, M. Z. Javed, M.U. Awan, **Ciurdariu L.**, B. S. Alkahtani, *Hermite-Hadamard's like inequalities via symmetric quantum calculus*, Ain Shams Engineering Journal, 2025, 16, 103372.
38. A. Mateen, G. H. Tipu, **Ciurdariu L.**, F. Yao., *Analytical soliton solutions of the Kairat-II equation using the Kumar-Malik and extended hyperbolic functions methods*, AIMS Mathematics, 2025, 10(4): 8721-8752.
39. B. Meftah, W. Saleh, M.U. Awan, **Ciurdariu L.**, A. Lakhdari, *Hybrid Integral Inequalities on Fractal Set*, Axioms, 2025, 12, 358.
40. W. Liu, Y. Wang, I. B. Sial, **Ciurdariu L.**, *Some New and Sharp Inequalities of Composite Simpson's Formula for Differentiable Functions with Applications*, Mathematics, 2025, 13, 1814.
41. M. Toseef, I. Javed, M.A. Ali, **Ciurdariu L.**, *Hermite-Hadamard-Mercer type inequalities for interval-valued coordinated convex functions*, Axioms, 2025, 14, 661.
42. T. Hussain, **Ciurdariu L.**, E. Grecu, *Evolutionary approach to inequalities of Hermite-Hadamard-Mercer type for generalized Wright's functions associated with computational evaluation and their applications*, Fractal and Fractional, 2025, 9, 593.
43. H. Barsam, Y. Sayyari, **Ciurdariu L.**, *New bound of entropy with respect to refinement of the inequality of Jensen and application in graph theory*, Journal of Information & Optimization Sciences, 2025, 46(7), pp. 2129-2138.
44. T. Hussain, **Ciurdariu L.**, M. Sittar, J. E. N. Valdes, *Hermite-Hadamard-Mercer type inequalities for twice differentiable convex involving Riemann-Liouville fractional integrals*, Filomat, 2025, 39:21, 7483-7497.
45. H. Barsam, Y. Sayyari, **Ciurdariu L.**, *Jensen's inequality and p-convex functions with applications in information theory*, Wavelets and Linear Algebra, 2024, 11(2), 76-87.
46. **Ciurdariu L.**, *A variant of Radon's inequality for seminorms*, J. Sci and Arts, 2022, 22(3), pp. 645-654.

47. **Ciurdariu L.**, Some Hermite-Hadamard type inequalities involving fractional integral operators, J. Sci. And Arts, 2022, 4(61), 941.
48. Munir, A., Budak, H., Kashuri, A., **Ciurdariu, L.**, Advanced Hermite-Hadamard-Mercer Type Inequalities with Refined Error Estimates and Applications, Fractal and Fractional, 2026, 10 (1), 71.
49. Toseef, M., Alshammari, F.S., Faridi, W.A., **Ciurdariu, L.**, The oblique soliton waves along the interface between layers of different densities in stratified fluids, Open Physics, 2026,24 (1), 1-22.
50. Shi, X.T., Al Ahmadi, A.A., Khan, M.B., **Ciurdariu, L.**, Hakami, K.H., Novel versions of Holder's-like and related inequalities with newly defined L_p space, and their applications over fuzzy domain, Heliyon, 2024, 19 (23), 1-16,
51. Macias-Diaz, J.E., Saber, Y., Alshuhail, A., **Ciurdariu, L.**, Gallegos, A., The Hadamard and generalized fractional integral fuzzy-number-valued operators for mappings of one and two variables, and their related fuzzy number inequalities, Fractal and Fractional, 2026, 10 (4), 225.
52. Sayyari, Y., Barsam, H., **Ciurdariu, L.**, On uniformly δ -geometric convex functions, Fractal and Fractional, 2026, 10 (5), 289.
53. Javed, M.Z., Awan, M.U., **Ciurdariu, L.**, Grecu, E., Mostafa, H., ANN-Assisted sharp bounds for higher-order Euler-Maclaurin inequalities, Axioms, 2026, 15 (5), 358.

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1.

E. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

- Selecție cu maximum 20 lucrări în volume de conferințe

1. L. Ciurdariu, P.Gaspar, On Commuting Pairs of Gramian Isometries. The Doubly Commuting Case, Proceedings of the International Symposium, Research and Education in Innovation Era, Section Mathematics and Computer Science, 2nd Edition, Universitatea "Aurel Vlaicu" din Arad, 2008, 17, Noiembrie, ISSN 2065-2569, pp. 9.
2. P. Gaspar, L. Ciurdariu, On Commuting Pairs of Gramian Isometries. The Dual Commuting Case, Proceedings of the International Symposium, Research and Education in Innovation Era, Section Mathematics and Computer Science, 2nd Edition, Universitatea "Aurel Vlaicu" din Arad, 2008, 17, Noiembrie, ISSN 2065-2569, pp. 7.



3. L. Ciurdariu, T. Binzar, On some subnormalities for operators on Loynes spaces, Proceedings of the PAMM Conference, BAM-CIX/2006 Nr. 2275 B.Almadi, Bulletins for Applied and Computer Mathematics, 2006, 1-3 June, ISBN 2295-2315, pp. 021-028.

E. Brevete obținute în întreaga activitate

1.

Data: 08.06.2026

Semnătura:

A N E X A 4 . 1

Nume Prenume: **Banciu Felicia Veronica**

Gradul didactic: ... **Șef de lucrări**

Universitatea Politehnica Timișoara

Facultatea Mecanică

Departamentul de Ingineria Materialelor și Fabricației

L I S T A**lucrărilor științifice în domeniul disciplinelor din postul didactic****A. Teza de doctorat**

Titlul tezei: *Dezvoltare unui model de concepție inovantă, colaborativă a produselor*, Inginerie Industrială, 2011, Universitatea Politehnica din Timișoara, Ministerul Educației și Cercetării, în baza OMECT No.6468/07.12.2011.

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. **Banciu Felicia Veronica**, Ghid de lucrări practice și aplicații pentru proiectarea echipamentelor tehnologice - designul dispozitivelor, Editura Politehnica Timisoara, ISBN 978-606-554-849-7, 115 pag, 2014
2. [Dragos Iliescu, Simona Vasilache, Banciu Felicia, Handbook of Research on Student-Centered Strategies in Online Adult Learning Environments, Collaborative scientific writing between writing art and project management](#) (Book Chapter), Publisher: Hershey, PA : Information Science Reference, <https://www.worldcat.org/>, pp. 339-364, 2018
3. Firu, A.C., Feier, A., **Banciu, F.**, Tăpîrdea, A.I., Draghici, G. (2022) New Approaches to Product Development in the Current Industrial and Economic Context. In: Draghici, A., Ivascu, L. (eds) Sustainability and Innovation in Manufacturing Enterprises. Advances in Sustainability Science and Technology, SPRINGER, Singapore, pp 165-184, https://doi.org/10.1007/978-981-16-7365-8_6.
4. **Banciu Felicia** Dispozitive 1- curs in format electronic <https://cv.upt.ro/course/view.php?id=961>- 100 pagini
5. **Banciu Felicia** Curs Management Industrial – în format electronic – 100 pagini
6. **Banciu Felicia** Curs Mentenanță total productivă- în format electronic – 70 pagini
7. **Banciu Felicia** Curs Fiabilitate și mentenanță - în format electronic – 70 pagini
8. **Banciu Felicia** Curs Utilaje de asamblare și ambalare – 80 pagini
9. **Banciu Felicia** Procese tehnologice de asamblare și ambalare- 80 pagini

C1. Lucrări indexate ISI Proceedings

1. **Banciu Felicia**, Pamintas Eugen (2014), Theory-practice, a Nonfunctional Tandem in Romanian Technical Higher Education, in INTER ENG Conference, Târgu Mures, 2014, Journal: Procedia Technology, PROTCY1972, PII: S2212017315001620, DOI:10.1016/j.protcy.2015.02.161
2. Eugen Pamintas, **Veronica Felicia Banciu**, Adrian Diaconu, REAL ECONOMY - UNIVERSITIES INFORMATIONAL ASYMMETRIES in Proceedings of the 11th International Conference, Efficiency and Responsibility in Education 2014, 5th - 6th June 2014, Prague, Czech Republic, EU, Editors: Milan Houška, Igor Krejčí, Martin Flégl, ISBN 978-80-213-2468-8, pp. 534-542, DOI: 10.13140/2.1.3197.3761, gasita dupa autor Banciu, Veronica Felicia
3. Eugen Pămîntaş, Gheorghe Cristian Turc, **Felicia Veronica Banciu**, [Aluminium High Speed Drilling - Some Technological Aspects](#), Advanced Materials and Structures V, Volume 216, ISBN-13:978-3-03835-212-9, pp 294-298, Editors Nicoară Mircea, Opreș Carmen, AMS'13 Advanced Materials and Structures, 24-25 October 2013, Timișoara, Romania, doi: 10.4028/www.scientific.net/SSP.216
4. **V. Banciu**, G. Draghici, E. Pămîntaş, "Using Functional Requirements Formulation in Fault Tree Analysis Construction - A Way to Improve Product's Design", Applied Mechanics and Materials, Vol. 657, pp. 911-915, Oct. 2014; doi 10.4028/www.scientific.net/AMM.657.911, ISI proceedings
5. **Felicia Veronica Banciu**, George Draghici, Eugen Pamintăș, An Axiomatic Design View On Part Orientation Schemes, Advanced Materials and Structures V, Volume 216, pp 310-316, ISBN-13:978-3-03835-212-9, Editors Nicoara Mircea, Opreș Carmen AMS'13 Advanced Materials and Structures, 24-25 October 2013, Timișoara, Romania, doi: 10.4028/www.scientific.net/SSP.216.310;-
6. PAMÎNTAS Eugen, **Banciu Felicia** (2014) Looking for a Mathematical Solution for Self-Centering Device, IManE 2014 International Conference INNOVATIVE MANUFACTURING ENGINEERING INTERNATIONAL CONFERENCE, May 23-24, Chisinau, Republica Moldova, MODTECH / TMCR Renewed Seriesb; 10.4028/www.scientific.net/AMM.657.509;
7. Pamintas, Eugen; **Banciu, Felicia Veronica** The preparation for being a researcher in Romania today, By: , Edited by: Oancea, G; Dragoi, MV, Conference: 4th International Conference on Computing and Solutions in Manufacturing Engineering (CoSME) Location: Brasov, ROMANIA Date: NOV 03-04, 2016 Sponsor(s): Transilvania Univ Brașov, Fac Technol Engn & Ind Management, Dept Mfg Engn, 4TH INTERNATIONAL CONFERENCE ON COMPUTING AND SOLUTIONS IN MANUFACTURING ENGINEERING 2016 - COSME'16 Book Series: MATEC Web of Conferences Volume: 94 10.1051/mateconf/20179407008 Article Number: UNSP 07008 Published: 2017
8. **Banciu Felicia Veronica**, An approach to support entries for a design failure modes and effects analysis MATEC Web Conf, Volume 94, **2017**, 8 pages, The 4th International Conference on Computing and Solutions in Manufacturing Engineering 2016 – CoSME'16, <https://doi.org/10.1051/mateconf/20179405001>, published 2017
9. **Banciu, Felicia Veronica**; Pamintas, Eugen (**2017**). Highlighting product issues during design phase using functional analysis Conference: 8th International Conference on Manufacturing Science and Education (MSE) - Trends in New Industrial Revolution Location: Sibiu, ROMANIA Date: JUN 07-09, 2017 Sponsor(s): Lucian Blaga Univ Sibiu, Fac Engn, Ind Engn & Management Dept; Lucian Blaga Univ Sibiu, Fac Engn, Ind Machines & Equipment Dept 8TH INTERNATIONAL CONFERENCE ON MANUFACTURING SCIENCE AND EDUCATION (MSE 2017) - TRENDS IN NEW INDUSTRIAL REVOLUTION Book Series: MATEC Web of Conferences Volume: 121 Article Number: UNSP 02001 Published: 2017
10. Pamintas, Eugen; **Banciu, Felicia Veronica** (**2017**) About the best value of rake angle for cutting tools Conference: 8th International Conference on Manufacturing Science and Education (MSE) - Trends in New Industrial Revolution Location: Sibiu, ROMANIA Date: JUN 07-09, 2017 Sponsor(s): Lucian Blaga Univ Sibiu, Fac Engn, Ind Engn & Management Dept; Lucian Blaga Univ Sibiu, Fac Engn, Ind Machines & Equipment Dept 8TH INTERNATIONAL CONFERENCE ON MANUFACTURING SCIENCE AND EDUCATION (MSE 2017) - TRENDS IN NEW INDUSTRIAL REVOLUTION Book Series: MATEC Web of Conferences Volume: 121 Article Number: UNSP 01010 Published: 2017
11. A.Tulcan, **F. Banciu** and I. Grozav. (**2016**) Reactions of the Locating Pins Calculation Based on Force and Moment's Separation Method Using a Software Program, in 2016 International Conference on Production Research – Africa, Europe and the Middle East 4th International Conference on Quality and Innovation in Engineering and

- Management, 25-30 iulie Cluj-Napoca, Romania, http://icpr-aem.com/wp-content/uploads/2016/07/ICPR-AEM-QIEM_2016_Conference_Program.pdf
12. Anamaria Feier, **Banciu F.**, ERGONOMIC ASPECTS OF REAL AND VIRTUAL WELDING TOOLS, in Acta Tehnica Napocensis/Series Applied mathematics, mechanics and Engineering, vol.64, No.1-S1 (2021); <https://atna-mam.utcluj.ro/index.php/Acta/article/view/1502>
 13. Anamaria Ioana Feier, **Felicia Veronica Banciu**, Mihai Brîndușoiu, Radu Băncilă "The first welded bridge - prototype development through fused deposition modelling (FDM)", STRUCTURAL INTEGRITY AND LIFE, Vol. 22, No 3 (2022), pp. 267–270, Jurnal ISI , Q3 (Factor de impact 1.4?)
 14. Aurel TULCAN, **Felicia BANCUI**, Liliana TULCAN and Ion GROZAV (2020) THEORETICAL MODEL FOR CALCULATING THE ELASTIC AND CONTACT DEFORMATIONS OF THE POSITIONING ELEMENTS OF A 3-2-1 FIXTURE SYSTEM, QIEM-IcNCT_2021 conference Cluj-Napoca, in Acta Tehnica Napocensis/Series Applied mathematics, mechanics and Engineering, Vol 65, No 1S (2022): ; [Vol 65, No 1S \(2022\) \(utcluj.ro\)](https://atna-mam.utcluj.ro/index.php/Acta/article/view/2022/1602)
 15. **BANCUI, Felicia Veronica**; FEIER, Ioana Anamaria; LEORDEAN, Silviu Cătălin. THE PRACTICAL APPLICATION OF TPM PRINCIPLES IN THE CASE OF AN ELECTROSTATIC PAINTING DEPARTMENT. **ACTA TECHNICA NAPOCENSIS - Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING**, [S.I.], v. 65, n. 4S, mar. 2023. ISSN 2393–2988. Available at: <<https://atna-mam.utcluj.ro/index.php/Acta/article/view/2022/1602>>. Date accessed: 27 Sep. 2023
 16. TULCAN Aurel, **BANCUI Felicia Veronica**, GROZAV Ion (2023) Cost optimization for assigned tolerance to a 2D dimensional chain using GeoGebra software, 27th Edition of INNOVATIVE MANUFACTURING ENGINEERING & ENERGY CONFERENCE October 12-14, 2023, Chisinau, Republic of Moldova
 17. A Tulcan, **Banciu Felicia Veronica**, I Grozav. (2020) Tolerance allocation using Monte Carlo simulation, Sep 2020, IOP Conference Series Materials Science and Engineering 916:012122, [Volume 916, ModTech International Conference - Modern Technologies in Industrial Engineering VIII 24-27 June 2020, Iasi, Romania, Published online: 10 September 2020](https://doi.org/10.1088/1757-899X/916/1/012122) DOI: [10.1088/1757-899X/916/1/012122](https://doi.org/10.1088/1757-899X/916/1/012122)
 18. TULCAN, Aurel; BANCUI, Felicia Veronica; GROZAV, Ion. ANALYSIS AND ALLOCATION OF DIMENSIONAL TOLERANCES USING GeoGebra SOFTWARE. **ACTA TECHNICA NAPOCENSIS - Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING**, [S.I.], v. 65, n. 4S, mar. 2023. ISSN 2393–2988. Available at: <<https://atna-mam.utcluj.ro/index.php/Acta/article/view/2077>>. Date accessed: 11 Nov. 2024. ANALYSIS AND ALLOCATION OF DIMENSIONAL TOLERANCES USING GeoGebra SOFTWARE (2022), Proccedings of IManEE 2022 Conferenece, Iasi, Romania
 19. Richard MOLNAR, Anamaria FEIER, **Felicia BANCUI**, Margareta COTEATĂ. USE OF WELDING SHIELDING GAS MIXTURES IN AUTOMOTIVE WELDING PROCESSES. **ACTA TECHNICA NAPOCENSIS - Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING**, [S.I.], v. 65, n. 4S, mar. 2023. ISSN 2393–2988. Available at: <<https://atna-mam.utcluj.ro/index.php/Acta/article/view/2055>>. Date accessed: 11 Nov. 2024., Proccedings of IManEE 2022 Conferenece, Iasi, Romania
 20. Anamaria Feier, **Banciu F.**, ERGONOMIC ASPECTS OF REAL AND VIRTUAL WELDING TOOLS, in Acta Tehnica Napocensis/Series Applied mathematics, mechanics and Engineering, vol.64, No.1-S1 (2021); <https://atna-mam.utcluj.ro/index.php/Acta/article/view/1502>
 21. R. Molnar, A. Feier, O. Chivu, F. B. Banciu, M. Coteață, *An investigation of the effects of flame straightening heating on the high strength structural steels microstructure*, Metallography, Microstructure, and Analysis, Springer (Q3, Journal Impact Factor = 1,3 în curs de indexare)
 22. Crisanta-Alina MAZILESCU, Claudia STOIAN, Felicia BANCUI, (2025) <https://lumenpublishing.com/journals/>, Designing a University Curriculum Internationalization Course: Methodological Framework and Pedagogical foundation, Revista Romaneasca pentru Educatie Multidimensionala LUMEN Journals, DOI: <https://doi.org/10.18662/rrem/>; [Revista Romaneasca pentru Educatie Multidimensionala](https://doi.org/10.18662/rrem/); p-ISSN: 2066-7329 | e-ISSN: 2067-9270 | DOI: 10.18662

C2. Lucrări indexate BDI

1. TURC Cristian-Gheorghe, **Banciu Felicia** and BELGIU George Fuzzy Logic Applications in Gears Manufacturing, Advanced Materials Research Vol. 1036 (2014) pp 1028-1032, © (2014) Trans Tech Publications, Switzerland, doi: 10.4028/www.scientific.net/AMR.1036.1028, CERUT PE BAZA doi IMPORT IN ISI PROCEEDINGS in COGITO 8 SEPT 2015, SCOPUS
2. PĂMÎNȚAȘ Eugen, TURC Gheorghe Cristian, **Banciu Felicia Veronica**, Three Edged Drill vs. Double - Edged Drill in Aluminium Parts Drilling, Advanced Materials Research Vol. 1036 (2014) pp 382-387, oct (2014) Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMR.1036.382, SCOPUS
3. **Felicia Veronica Banciu**, (2015). Axiomatic Design Functional Independence Concept Applied In Concept Solution Selection in "Academic Journal of Manufacturing Engineering", ISSN 1583-7904 Vol.13, No 2/ 2015 , pp 54-59, 7th INTERNATIONAL CONFERENCE ON MANUFACTURING SCIENCE AND EDUCATION, June 3-6, 2015 Sibiu, Romania SCOPUS, http://www.auif.utcluj.ro/images/AJME_13_2_2015/AJME_vol13_nr2_2015_L9_Page54-59
4. Laurențiu Slătineanu¹, Oana Dodun¹, Margareta Coteață^{1*}, Valeriu Dulgheru², Petru Dușa¹, **Felicia Banciu**³ and Irina Beșliu⁴ Selection of a Solution When Using Axiomatic Design MATEC Web Conf, Volume 127, 2017, 9 pages, The 11th International Conference on Axiomatic Design (ICAD 2017), DOI <https://doi.org/10.1051/mateconf/201712701019>, SCOPUS
5. Iliescu Dragos, **Banciu Felicia Veronica**, *Application of some ideas from the axiomatic design principles for construction of a learning management system in Romanian higher engineering education* MATEC Web of Conferences, Volume 112 (2017), 21st Innovative Manufacturing Engineering & Energy International Conference – IManE&E 2017, Iasi, Romania, May 24-27, 2017, L. Slătineanu, G. Nagit, O. Dodun, V. Merticaru, M. Coteata, M.I. Ripanu, A.M. Mihalache, M. Boca, R. Ibanescu, C.E. Panait, G. Oancea and P. Kyratsis (Eds.), DOI: <https://doi.org/10.1051/mateconf/201711208002>, SCOPUS
6. **Felicia Veronica Banciu**, Eugen Pămîntaș, *Challenges in Romanian Technical Higher Education from the Perspective of the European Requirements for its Modernization*, in MATEC Web of Conferences, Volume 184 (2018), Annual Session of Scientific Papers IMT ORADEA 2018, Felix SPA, Romania, May 31st - June 1st, 2018, G. Grebenișan and A.V. Pele (Eds.), SCOPUS, Published online: 31 July 2018, DOI: <https://doi.org/10.1051/mateconf/201818404013>
7. Eugen Pămîntaș and **Felicia Veronica Banciu**, *A brief overview of the evolution and trends in maintenance*, in MATEC Web of Conferences, Volume 184 (2018), Annual Session of Scientific Papers IMT ORADEA 2018, Felix SPA, Romania, May 31st - June 1st, 2018, G. Grebenișan and A.V. Pele (Eds.), Published online: 31 July 2018, DOI: <https://doi.org/10.1051/mateconf/201818403003>, SCOPUS
8. **Banciu Felicia**, Grozav Ion, Turc Cristian, (2014), F. V. Banciu, I. Grozav, C. G. Turc, "Tolerance Allocation Using Design of Experiments", Applied Mechanics and Materials, Vol. 760, pp. 45-50, May. 2015, DOI:10.4028/www.scientific.net/AMM.760.45, eISSN: 2261-236X SCOPUS
9. **Banciu F., Pămîntaș E.** - Concepts and tools used to manage industrial manufacturing processes optimization, IOP Conference Series: Materials Science and Engineering, Vol. 568, Issue 1 /2019, Annual International Session of Scientific Papers - IMT Oradea 2019; Oradea, Felix SPA; Romania; 30-31 May 2019; ISSN: 17578981, DOI: 10.1088/1757-899X/568/1/012031, SCOPUS
10. **Pămîntaș E., Banciu F.** - A brief overview of the evolution and trends in maintenance, Annual Session of Scientific Papers IMT ORADEA 2018, Felix Spa, 31 July 2018, MATEC Web Conf., Volume 184 /2018, DOI: <https://doi.org/10.1051/mateconf/201818403003>
11. A I Feier and **F V Banciu**, Research on the solid-state joining of AlMg3, IOP Conference Series: Materials Science and Engineering, Volume 1235, The 25th Edition of IManEE 2021 International Conference (IMANEE 2021) 21/10/2021 - 22/10/2021 Online, IOP Conf. Ser.: Mater. Sci. Eng. 1235 012013, DOI 10.1088/1757-899X/1235/1/012013
12. **Banciu F.V.**, Pamintas E., Feier A. I., (2022), The application of new industrial maintenance concepts – An easy way to saving money in Journal of production Engineering, vol 25 no1, ISSN 1821-4932
13. **Felicia Veronica Banciu**; Feier, Anamaria. (2021). Aspects regarding skills and education related to Industry 4.0. MATEC Web of Conferences. 343. 11014. 10.1051/mateconf/202134311014, International conference MSE 2021, Sibiu, Romania .

14. Florin Chepetean, Anamaria Ioana Feier, **Felicia Veronica Banciu**, **2024**, *Investigation of an automotive part obtained by the WIG process* 10th International Conference on Advanced Materials and Structures AMS'24 30 May-01 June 2024 Timișoara, Romania
15. Anamaria Ioana Feier, **Felicia Veronica Banciu**, Inês Pires, Damjan Klobčar and Oana-Roxana Chivu, *Recommendations for Ergonomics in The Automotive Sector* ErgoWork 2024, International Biennial Conference (3rd International Conference of the Romanian Society on Ergonomics and Workplace Management), october 31 – November 1, **2024**, Bucharest, Romania
16. Ioan Buta, Cosmin Paval, Andrei Becheru, Anamaria Feier and Felicia Banciu "Automotive Components Obtained Through Wire Arc Additive Manufacturing" – AMS 2022, 9 th International Conference on Advanced Materials and Structures AMS'22 16-18 June 2022 Timisoara, Romania

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate); maxim 20 articole publicate în volume de conferințe

1. **Banciu Felicia Veronica**, SWOT Analyse of Technological Practice Stages, SCIENTIFIC BULLETIN OF THE POLITEHNICA UNIVERSITY OF TIMISOARA, ROMANIA, TRANSACTIONS ON MECHANICS, Vol. 60 (74), Issue 2, **2016**, Politehnica, Vol. 60 (74), ISSN 1224 - 6077
2. Slătineanu Laurentiu, Margareta Coteață, **F. V. Banciu s.a. (2016)**. Development of Technical Creativity in Higher Education in Proceedings of the MakeLearn and TIIM Joint International Conference MakeLearn 2016: Managing Innovation and Diversity in Knowledge Society Through Turbulent Time, 25-27 may 2016, pp 213-221, ISBN 978-961-6914-16-1, Timișoara, Romania <http://www.toknowpress.net/ISBN/978-961-6914-16-1/MakeLearn2016.pdf>
3. **Banciu Felicia Veronica**, Pămîntaş Eugen (**2016**). Failure Modes and Effects Analysis Results Used In Products Design Process, printed in International Journal for Science, Technics And Innovations for the Industry, Machines Technologies Materials, Ed. Giorgi Popov, Year X, Issue 4, ISSN 1313-0226, pp 55-59, at XIIIth International Congress Machines. Technologies. Materials, 16-19 march 2016, Borovetz, Bulgaria, <http://stumejournals.com/mtm/Archive/2016/4-2016.pdf>
4. Pămîntaş Eugen, **Banciu Felicia Veronica**, (**2016**). Higher Education System Prepares Scientific Researchers? printed in International Scientific Journal Science. Business. Society International Scientific Journal, YEAR 1, ISSUE 1/2016, ISSN 2367-8380, pp. 14-18, ed. Dimitar Yoncev, First International Scientific Conference "HIGH TECHNOLOGIES. BUSINESS. SOCIETY 2016" 15-18 March, 2016, Borovetz, Bulgaria, <http://stumejournals.com/sbs/1-2016.pdf>

E. Brevete, produse și tehnologii obținute în întreaga activitate

Nr. Crt.	Anul	Luna	Tip produs	Titlul produs, tehnologie, studiu, serviciu	Firma utilizatoare	Numar contract	Autorii	Titular /beneficiar
-	-	-	-	-	-	-	-	-

Data:

Semnătura

10.11.2025

A N E X A 4 . 1

Nume Prenume: Țîmpea Ștefan Adrian

Gradul didactic: Drd. Ing

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: Mecanică

Departamentul: Departamentul IMF

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

IN CURS – CERCETĂRI PRIVIND UTILIZAREA ALIAJELOR BIOCOMPATIBILE COBALT-CROM PENTRU REALIZAREA IMPLANTURILOR DE MÂNĂ UTILIZÂND TEHNICI DE FABRICARE ADITIVĂ

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Design of a Bionic Arm Using Rapid Prototyping Technology. Authors: Adrian ȚÎMPEA, Cristian COSMA, Cosmin CODREAN, Aurelian MAGDA. Revista. Hidraulica
2. Touch Screen Tester Device End-Effector. Stefan Adrian Timpea, Cristian Cosma, Danut Sosdean. Materiale Plastice.
3. Compressive behavior of various BCC lattice structure . SA Timpea, C Codrean, NA Sîrbu, AI Dume, C Cosma, VA Serban.. Nano Hybrids and Composites 41, 39-45
4. DESIGN METHODOLOGY FOR A RADIUS IMPLANT USING CATIA V5 R19. ȘA ȚÎMPEA, D Adrian, V DZITAC, C COSMA, VA ȘERBAN. ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING

D. Lucrări publicate în ultimii 10 ani în reviste și volume de conferințe cu referenți (neindexate)**- Reviste**

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

1.



E. Brevete obținute în întreaga activitate

1.

Data:

Semnătura:

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume: **Ambruș Sebastian**

Gradul didactic: **Asistent universitar**

Instituția unde este titular: **Universitatea Politehnica Timișoara**

Facultatea: **Mecanică**

Departamentul: **Ingineria Materialelor și Fabricației**

L I S T A
lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. R. Muntean, S. Ambruș, N. A. Sîrbu and I. D. Uțu, "Tribological Properties of Different 3D Printed PLA Filaments", Nano Hybrids and Composites, vol. 36, pp. 103-111, June 2022
2. S. Ambruș, R. A. Soporan, N. Kazamer, D. T. Pascal, R. Muntean, A. I. Dume, G. M. Mărginean and V. A. Șerban, "Characterization and mechanical properties of fused deposited PLA material", Materials Today-Proceedings, vol. 45, pp. 4356-4363, May 2021
3. S. Ambruș, R. Muntean, N. Kazamer and C. Codrean, "Post-processing technologies of copper-poly-lactic acid composites obtained by 3D printing fused deposition modeling", Material Design and Processing Communications, vol. 3, issue 5, October 2021
4. C. Codrean, D. Buzdugan, C. Oprea, R. Muntean and S. Ambruș, "Corrosion behavior of bulk amorphous steels with low carbon content", Materials Today-Proceedings, vol. 72, pp. 554-559, January 2023
5. S. Ambruș, R. Muntean, C. Codrean and I. D. Uțu, "Influence of printing conditions on the mechanical properties of copper-poly-lactic acid composites obtained by 3D printing fused deposition modelling", Materials Today-Proceedings, vol. 72, pp. 580-585, January 2023

D. Lucrări publicate în ultimii 10 ani în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1. D. Buzdugan, C. Codrean, S. Ambruș and V. A. Șerban, "Self-fluxing amorphous Nickel-based alloys obtained by different techniques. Performance and technological difficulties", Journal of Engineering Sciences and Innovation, vol. 8, pp. 277-286, January 2023



- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E. Brevete obținute în întreaga activitate

1.

Data: 17.10.2024

Semnătura:

Universitatea Politehnica Timișoara
Facultatea de Mecanică
Mecanică și Rezistența Materialelor
Conf.dr.ing. Cosmina VIGARU

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Studii teoretice și experimentale asupra surselor și nivelului de vibrații la unele tipuri de mașini de țesut

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. STOIA Dan Ioan, Vigaru Cosmina, Dobrescu Laura, Mecanica. Cinematica, ed. Politehnica Timisoara, 2015

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. M. Vasilescu, I. Antoniac, D.I. Stoia, D. Laptoiu, A. Stoia, C. Vigaru, S. Gradinaru, "Using Stainless Steel and Titanium Alloy in Charcot Foot Reconstruction. FEA Simulation and Clinical Case". Revista de Chimie, vol. 71, no. 4, pp. 235-247, 2020.
2. Stoia D.I., Vigaru C., Nicoara A., Herisanu N. (2021) Angular Momentum About the Total Body Center of Mass Computed at Different Speeds. Acoustics and Vibration of Mechanical Structures—AVMS 2019. Springer Proceedings in Physics, vol 251.
3. Antoniac I.V., Stoia D.I., Ghiban B., Tecu C., Miculescu F., Vigaru C., Sacelean V., Failure analysis of a Humeral Shaft Locking Compression Plate (LCP) – Surface Investigations and FEM Simulations, Materials, 12(7), 1128, 2019
4. Stoia, Dan Ioan; Vigaru, Cosmina; Rusu, Lucian, Relative and Absolute Angles Computed from Pathologic Gait Data, ACOUSTICS AND VIBRATION OF MECHANICAL STRUCTURES (AVMS-2017), 2018
5. Rusu, L., Stoia, D.I., Vigaru, C., Simulation of the upper limb recovery exercises during physical therapy rehabilitation, Key Engineering Materials KEM 752, 2017
6. Stoia, D.I., Vigaru, C., Rusu, L., Haragus, H., Damian, S., Mechanical aspects of self-Alignment mechanism in hip bipolar hemiarthroplasty, Key Engineering Materials KEM 752, 2017
7. Stoia Dan Ioan, Toth-Tascau M, Vigaru C, Pasca O, Evaluation of Rearfoot Deformity based on Instrumented Motion Analysis. Talus Valgus Case Study, 14th Symposium on Experimental Stress Analysis and Materials Testing, Key Engineering Materials, Vol. 601, TTP LTD, pag. 155-158, 2014.

8. L. Jurca, C. Vigar, N. Herisanu, "Experimental investigation on acoustic parameters in speech analysis for patients with laryngeal disorders", Romanian Journal of Acoustics and Vibration, Vol.21, No.2 (Dec. 2024), p.182–189.
9. L. Jurca, C. Vigar, C. Chilibaru-Opritescu, N. Herisanu "An analytical approach to a simple nonlinear model of vocal fold", in American Institute of Physics Conference Series, 2023, vol. 2849, nr. 1., AIP Publishing.
10. L. Jurca, C. Vigar, "Jitter and Shimmer Parameters in the Identification of Vocal Tract Pathologies. Current State of Research", in Herisanu, N., Marinca, V. (eds) Acoustics and Vibration of Mechanical Structures, AVMS - 2023. Springer Proceedings in Physics, vol 302, Springer Link.
11. L. Jurca, C. Vigar, C. Chilibaru-Opritescu, "Analytical investigation to biomechanical properties of a vocal fold model", in American Institute of Physics Conference Series, 2022, vol. 2425, nr. 1., AIP Publishing.
12. 1. L. Jurca, C. Vigar, N. Herisanu, "An Analytical Investigation of the Human Vocal Fold Oscillation Using a Mucosal Wave Model", INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2022, ICNAAM-2022, Volume 3094, WOS:001244923000138.

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

1. Stoia, D.I., L.Marsavina, C. Vigar, Influence of the Process Parameters on the Shape and Dimensions of the Parts Obtained by Selective Laser Sintering (SLS), IOP Conference Series: Materials Science and Engineering Volume 416, Issue 1, 26 October 2018.

E. Brevete obținute în întreaga activitate

Data:

Semnătura: 

A N E X A 4 . 1

Nume Prenume: TULCAN Liliana Georgeta

Gradul didactic: Conferențiar

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: Mecanică

Departamentul: Ingineria Materialelor și Fabricației

L I S T A lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

”Activarea ultrasonică a proceselor de netezire fină abrazivă”, Universitatea “Politehnica” din Timișoara, 25.05.2000

B. Cărți și capitole în cărți publicate în ultimii 10 ani

Nr. crt.	Nume, prenume autor(i)	Titlul cărții/monografiei	Editura	Anul	Număr de pagini
1.	Mircea Dorin Vasilescu, Liliana Tulcan	<i>Instalații și Echipamente Electromecanice. Aplicații practice</i>	Editura Eurostampa	2020	224
2.	Herman, R., Olariu, M., Crainic, N., Reviczky, A., Vasilescu, M., Tulcan Liliana, Malaimare, G., Safta, V., Han Adelina	<i>Aplicatii specifice in tehnologia materialelor</i>	Editura Politehnica	2014, reeditare 2025	159
3.	Vasilescu, M., Tulcan Liliana, Gubencu, D.	<i>Utilaje, Instalatii, Echipamente - Aplicatii practice si probleme</i>	Editura Politehnica	2009	161
4.	Fleşer, T., Tulcan Liliana	<i>Tehnologii de fabricatie, mentenanta si recuperare - aplicatii practice de laborator</i>	Editura Mirton	2008	137
5.	Herman, Richard Olariu, Mircea Crainic, Nicolae, Reviczky-Levay, Antoniu Mircea Vasilescu, Liliana Tulcan, Gabriel Malaimare, Voicu Safta, Adelina Han	<i>Investigații experimentale în tehnologia materialelor</i>	Editura Politehnica	2006	225
6.	Tulcan, A., Tulcan, L., Iclănzan, T.	<i>Sisteme de control</i>	Editura Politehnica	2006	522
7.	Nanu, A., Marinescu, N. I., coordonatori volum, ș.a., ... Tulcan Liliana	<i>Tratat de tehnologii neconventionale, vol. VIII, Prelucrarea prin eroziune cu unde ultrasonice</i>	Editura BREN	2004	161

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Lucrări științifice publicate în reviste indexate ISI

Nr. crt.	Titlul articolului	Nume, prenume autor(i) articol	Revista (ISSN, nr. volum)	Anul publicării	Factor de impact
1	Comparative Study of the Influence of Bio-Resin Color on the Dimension, Flatness and Straightness of the Part in the 3D Printing Process.	Tulcan, A., Vasilescu M.D., Tulcan Liliana	Polymers 2021, ISSN 2073-4360, 13, 1412. doi.org/10.3390/polym13091412, WOS: 000650706300001, Q1	2021	4,329
2	Study of the influence of technological parameters on generating flat part with cylindrical features in 3D printing with resin cured by optical processing	Tulcan, A., Vasilescu M.D., Tulcan Liliana	Polymers, Volume: 12, Issue: 9, Pages: 1941, ISSN 2073-4360 doi:10.3390/polym12091941, WOS: 000444147100025 Q1	2020	4,329
3	Influence factors on the dimensional accuracy of the plastic parts	Stan D., Tulcan A., Tulcan Liliana, Iclănzan T.	Revista de Materiale Plastice, Vol. 45 (1) ISSN 0025-5289	2008	0,873
4	3-Dimensional inspection of injected plastic parts	Tulcan, A., Tulcan Liliana, Stan, D., Iclănzan, T.	Revista de Materiale Plastice, vol.44 (4) ISSN 0025-5289	2007	0,319

Lucrări indexate ISI Proceeding

Nr. crt.	Titlul articolului	Nume, prenume autor(i) articol	Revista (ISSN, nr. volum)	Anul publicării
5	Theoretical model for calculate the elastic and contact deformations of the positioning elements of a 3-2-1 fixture system	Tulcan, A., Banciu, F.V., Tulcan, Liliana, Grozav, I.	QIEM & ICNcT 2021 Conference, Cluj-Napoca, 2021, Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, vol 65 n. 1S din 2022 pp. 253-260, ISSN: 1221-5872	2022
6	Design of experiments in CMM probe configuration study	Tulcan, A., Tulcan Liliana	2016 ICPR-AEM&QIEM Conference Proceedings	2016
7	Qualitative analysis of abrasive grain wear by ultrasonic aided plane lapping	Tulcan Liliana	The 16th International Conference Modern Technologies, Quality and Innovation - ModTech 2012 - New face of T.M.C.R., 24-26 Mai, Sinaia, România, ISSN 2069-6736, pp. 993-996	2012

2. Lucrări științifice publicate în reviste indexate BDI

Nr. crt.	Titlul articolului	Nume, prenume autor(i) articol	Revista (ISSN, nr. volum)	Anul publicării	Baza de date
8	Work security at industrial ultrasonics applications	Tulcan, Liliana, Tulcan, A;	Nonconventional Technologies Review, nr.1/2016, pp.15-21, Editura Politehnica,	2016	B+, BDI: indexare Copernicus și Proquest, EBSCO host, Google Scholar

			Timisoara, ISSN 2359-8646; ISSN-L 2359- 8646		
9	Particular phenomen into the work space of the ultrasonic aided abrasive lapping	Tulcan Liliana, Tulcan Aurel	Nonconventional Technologies Review, nr.4/2011, pp.59-62, Editura Politehnica, Timisoara, ISSN 1454-3087	2011	B+, BDI: indexare Copernicus și Proquest, Google Scholar
10	Ultrasonic emulsification in the food industry	Tulcan Liliana, Tulcan Aurel	Buletinul AGIR supliment /2011 Sisteme integrate pentru productia agroalimentara, 2011, 247/4, 4 pag., L 1224-7928; Online: ISSN 2247-3	2011	B+, BDI: Index Copernicus, Academic Keys, Getcited, Google Scholar
11	Aspects of surface microgeometry machining by ultrasonic aided plane lapping	Tulcan Liliana, Nistoran Botiș Mihaela, Tulcan Aurel	Nonconventional Technologies Review, nr.1/2010, pp.55-59, Editura Politehnica, Timisoara, ISSN 1454-3087	2010	B+, BDI: indexare Copernicus și Proquest, Google Scholar
12	Micromachining of silicon by chemical etching	Nistoran Botiș Mihaela, Tulcan Liliana	Nonconventional Technologies Review, nr.2/2010, pp.34-37, Editura Politehnica, Timisoara, ISSN 1454-3087	2010	B+, BDI: indexare Copernicus și Proquest, Google Scholar
13	Chemical etching of titanium	Nistoran - Botiș Mihaela, Tulcan Liliana	Revista de Tehnologii Neconvenționale, 2007 Editura PIM, Iași, pag.13-16, 4 pag	2007	B+, BDI: indexare Copernicus și Proquest, Google Scholar

Lucrări publicate în volumele unor conferințe internaționale din țară, indexate BDI

Nr. Crt.	Autori	Titlul lucrării	Publicația: (Conferința, Simpozionul, Denumirea volumului, Localitate, Nr., anul, pag., nr.pag., ISBN/ISSN etc.)	Observatii (cotație, indexare)
14	Tulcan, A; Tulcan, Liliana; Stan, D	CMM Design Based on Fundamental Design Principles	Advanced Materials Research, 10226680 / 978-303835255-6, 2014, vol.1036, pag. 517-522	SCOPUS Google Scholar
15	Stan Daniel, Șerban Iancu, Tulcan Liliana, Turc Cristian, Tulcan Aurel	Thermoplastics extrusion die with ultrasonic thermo-pellicular effect	The 6th WSEAS International Conference on Energy, Environment, Ecosystems and Sustainable Development (EEESD'10), Special session: Advanced Materials and Modern Fabrication Technologies for Sustainable Development 21-23 oct.	SCOPUS, Google Scholar

			2010, Timisoara, 2010, pp.404-408, ISSN 1792-5924, ISSN 1792-5940, ISBN 978-960-474-237-0	
16	Tulcan Liliana, Tulcan Aurel, Turc Cristian, Stan Daniel	Analysis of surface roughness profile machining by ultrasonic lapping	Annals of DAAAM for 2010 & Proceedings of the 21th International DAAAM Symposium, "Intelligent manufacturing and automation: Focus on interdisciplinary solutions", 20-23rd October 2010, Zadar, Croatia, Volume 20, No1, pp. 1497, ISSN 1726-9679, ISBN 978-3-901509-73-5;	SCOPUS Google Scholar
17	Tulcan Aurel, Seiculescu Valentin, Cosma Cristian, Tulcan Liliana, Bernath Alexander	Virtual Simulation of a Coordinate Measuring Machine Behavior at Accelerations and Variable Thermal Field	3rd International Conference on Manufacturing Engineering ICMEN and EUREKA Brokerage Event, Kallithea of Chalkidiki, Greece, 1.10.2008, pp. 710-715, ISBN 978-960-243-649-3	Google Scholar

În curs de indexare

9. Pop Cristian, Sticlaru Carmen, Pop Florina, Tulcan Aurel, Tulcan Liliana *Study on AI-generated 3D printed ABS parts: influence of infill type and percentage using factorial ANOVA*, regression, and multi-objective optimization, ISSN 1221-5872, Vol 68(SI) 2025

10. Daniel Tokar, Florina Pop, Cristian Pop, Liliana Tulcan, *Process Automation and Control for Performance Evaluation of Photovoltaic Panels*, Advances in 3OM and Photonics Technologies – 2025. Conferință PhoBioS 8-11 dec 2025

D. Lucrări publicate în ultimii 10 ani în reviste și volume de conferințe cu referenți (neindexate)

1. Lucrări științifice publicate în reviste neindexate

Nr. crt.	Titlul articolului	Nume, prenume autor(i) articol	Revista (ISSN, nr, volum)	Anul publicării
1	Analytic model of the smooth material volume for ultrasonic aided plane lapping	Tulcan Liliana, Tulcan Aurel, Stan Daniel	Revista de Tehnologii Neconventionale, Editura BREN Bucuresti, Nr.1/2006, pag.87-90, 4 pag, ISSN-1454-3087	2006
2	General analytic model for establishing the processed material volume for ultrasonic aided plane lapping	Tulcan Liliana, Tulcan Aurel, Stan Daniel	Revista de Tehnologii Neconventionale, Editura BREN Bucuresti, Nr.1/2005, pag.99-104, 4 pag, ISSN-1454-3087	2006

2. Lucrări științifice publicate în volumele unor conferințe cu referenți (neindexate) (se selectează maximum 20 articole)

Nr. crt.	Titlul articolului	Nume, prenume autor(i) articol	Revista (ISSN, nr, volum)	Anul publicării
3	Modular design of a coordinate measuring machine	Tulcan Aurel, Cioană Cristian, Stan Daniel, Tulcan Liliana, Bernath Alexander	4th International Conference on Manufacturing Engineering- ICMEN, Thessaloniki, Greece,	2011

			3-5 October, 2011, 6 pag., ISBN 978-960-243-649-3	
4	Ultrasonic cleaning in the food industry	Tulcan Liliana, Nistoran Botiș Mihaela, Tulcan Aurel	Integrated systems for agri-food productions, SIPA'09, Nyiregyhaza, Hungary, 12-14.09.2009, pp.289-292, ISBN 978-963-9909-40-3	2009

E. Brevete obținute în întreaga activitate

Nr. crt.	Autorii	Titlul brevetului	Tip brevet	Clasificare	Nr. Brevet
1	Daniel Stan, Tudor Iclanzan, Aurel Tulcan, Cristian Turc, Cristian Cosma, Adrian Dume, Liliana Tulcan	Matriță cu activare ultrasonică	național	ISI Derwent Code: A11-B12B; L03-G10A; X25-A06, class: A32, International Patent Classification: B29C-045/73	RO129156-A0 /30.01.2014 (CBI RO-a2013-00273 /03.04.2013)
2	Tudor Iclanzan, Daniel Stan, Aurel Tulcan, Cristian Cosma, Adrian Dume, Liliana Tulcan	Matrita si procedeu de injectare a pieselor miniaturale	national, inventie rezultata din contract UPT nr. BC 19/2013 cu Nano Inteliform Timisoara	ISI Derwent Code: A11-B12B, class A32, International Patent Classification: B29C-045/04	RO129443-A0 /30.05.2014 (CBI RO A/00993 /16.12.2013)

Data: 10.06.2026

Semnătura:

A N E X A 4 . 1

Nume Prenume: GHERGAN Oana – Corina

Gradul didactic: Asistent universitar

Instituția unde este titular: UNIVERSITATEA POLITEHNICA TIMIȘOARA

Facultatea: FACULTATEA DE MECANICĂ

Departamentul: INGINERIA MATERIALELOR ȘI FABRICAȚIEI

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

-

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. C. Florica, R. Balint, I. Dimcea, **O. Ghergan**, I. Groza, S. Mariș, C. Sîrbu, A. Șuta, I. Tomoiagă, M. Vasile, "Introducere în utilizarea calculatoarelor," Timișoara, Romania: Editura Fundației pentru Cultură și Învățământ „Ioan Slavici”, 2019. [ISBN: 978-606-8480-64-0]
2. S. Mariș, **O. Ghergan**, T. Slavici, "Limbajul C. Suport de curs. Tehnici de laborator și proiect," Timișoara, Romania: Editura Fundației pentru Cultură și Învățământ „Ioan Slavici”, 2019. [ISBN: 978-606-8480-63-3]
3. S. Mariș, **O. Ghergan**, T. Slavici, "Limbaje de programare. Suport de curs. Tehnici de laborator și proiect," Timișoara, Romania: Editura Fundației pentru Cultură și Învățământ „Ioan Slavici”, 2018. [ISBN: 978-606-8480-62-6]

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. A. Suci, **O.C. Ghergan**, S. Florica, Ș.A. Mariș, C.C. Florica, B. Pătruț, L.I. Dungan, "On modern additive manufacturing for some agro-industrial sector components," in Actual Tasks on Agricultural Engineering. Proceedings, Zagreb, Croatia, vol. 50, pp. 535-546, Mar. 2025. [WoS: pending; ISSN: 1848-4425]
2. **O.C. Ghergan**, D. Drăghicescu, I. Iosim, P.A. Necșa, "The role of computer vision in sustainable agriculture," Agricultural Management / Lucrări Științifice Seria I, Management Agricol, vol. 23, no. 2, pp. 82–88, 2021. [Indexed: EBSCO (BDI); ISSN (print): 1453-1410; e-ISSN: 2069-2307];
3. D. Drăghicescu, **O.C. Ghergan**, I. Iosim, "The need to develop a walnut-breaking device for small walnut farms," Agricultural Management / Lucrări Științifice Seria I, Management Agricol, vol. 23, no. 2, pp. 70–76, 2021. [Indexed: EBSCO (BDI); ISSN (print): 1453-1410; e-ISSN: 2069-2307];
4. **O.C. Ghergan**, D. Țucu, A. Iusco, D. Drăghicescu, R.M. Babanatis Merce, "Small greenhouse robotized solutions: State of the art and future perspectives," in Actual Tasks on Agricultural

Engineering. Proceedings, Zagreb, Croatia, vol. 47, pp. 267–276, Mar. 2019. [WoS: 000472729500027; ISSN: 1848-4425]

5. D. Drăghicescu, D. Țucu, **O.C. Ghergan**, A. Iusco, “Nuts varieties influence on walnut breaking and peeling process,” in Actual Tasks on Agricultural Engineering. Proceedings, Zagreb, Croatia, vol. 47, pp. 419–427, Mar. 2019. [WoS: 000472729500043; ISSN: 1848-4425]

6. A. Iusco, D. Țucu, **O.C. Ghergan**, S. Lica, “Energy production from the walk of the animals in paddock by the use of piezoelectric elements,” in Actual Tasks on Agricultural Engineering. Proceedings, Zagreb, Croatia, vol. 47, pp. 473–478, Mar. 2019. [WoS: 000472729500049; ISSN: 1848-4425]

7. R.M.B. Merce, T. Babanatsas, Ș.A. Mariș, D. Țucu, **O.C. Ghergan**, “Study of an automatic olives sorting system,” in Actual Tasks on Agricultural Engineering. Proceedings, Zagreb, Croatia, vol. 46, pp. 485–490, Feb.–Mar. 2018. [WoS: 000506355900049; ISSN: 1848-4425]

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

-

- Selecție cu maximum 20 lucrări în volume de conferințe

1. L.V. Mihoc, **O.C. Ghergan**, F. Naghiu, A. Suciu, L. Herman, S.C. Agărliță, “State of the art in manufacturing methods for fire sprinklers: Advances and future perspectives,” in Proc. Annual Conf. on Challenges of Contemporary Higher Education (ACCHE 2025), Kopaonik, Serbia, Feb. 2025, pp. 703–709. [BDI indexing pending; ISBN: 978-86-6211-150-0]

E. Brevete obținute în întreaga activitate

-

Data:

11.06.2025

Semnătura:

A N E X A 4 . 1

Nume Prenume: ILIE MARIANA

Gradul didactic: CONFERENTIAR

Instituția unde este titular: UNIVERSITATEA POLITEHNICA TIMISOARA

Facultatea: MECANICA

Departamentul: MECATRONICA

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

L'interaction laser-matiere dans le cas des polymeres semi-transparents. Application au soudage des polymeres, Universitatea Politehnica Timisoara- Universite de Bourgogne, 2007

B. Cărți si capitole în cărți publicate în ultimii 10 ani

- 1) Mariana ILIE, Mircea Voda - Grafica inginereasca. Notiuni de baza si aplicatii vol I, Editura Politehnica Timisoara, ISBN :9786063503429, 2019
- 2) Virgil Stoica, Mariana ILIE - Masini termice cu piston. Elemente de constructie si calcul, Editura Politehnica Timisoara, ISBN 978-606-35-0401-3, 2020
- 3) Mariana ILIE, Mircea Voda - Notiuni de baza in modelarea pieselor in CATIA V5, Editura Politehnica Timisoara, ISBN 978-606-35-0409-9, 2021

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

- 1) 1. I Z Boboescu, M Ilie, V Gherman; et al. Revealing the factors influencing a fermentative biohydrogen production process using industrial wastewater as fermentation substrate, Biotechnologies for biofuels, Volume 7 Issue 1 Pages 139, 1754-6834, Published 2014
- 2) I Z Boboescu, V Gherman; M Ilie, et al. Exploitation of experimental design methods and mathematical modeling for improving fermentative biohydrogen production processes, Volume 19 Issue 2, Pages 9097-9109, Published 2014
- 3) Stoica, V; Trif-Tordai, G; Ilie, M;Calinoiu, D, Flash boiling steam engine, INTERNATIONAL CONFERENCE ON APPLIED SCIENCES/ IOP Conference Series-Materials Science and Engineering/1757-8981,2019
- 4) Stoica, V; Ilie, M; Borborean, A, Cioabla, Experimental test bench for studying the boiling dynamics, INTERNATIONAL CONFERENCE ON APPLIED SCIENCES/ IOP Conference Series-Materials Science and Engineering/1757-8981, 2019
- 5) Ilie, M; Stoica, V; Cicala,E ;Kneip, JC, Experimental design investigation of through-transmission laser welding of dissimilar polymers, Journal of Physics: Conference Series, 2020



D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E. Brevete obținute în întreaga activitate

1.

Data:

Semnătura:

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume: ILIE SIMONA

Gradul didactic: Ș.l.univ.dr.ing.

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: Inginerie Electrică și Energetică

Departamentul: Bazele Fizice ale Ingineriei

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

1. S.Ilie, "Optimizarea unei centrale termosolare cu lentilă Fresnel și motor Stirling", Editura Politehnica, ISBN:978-606-35-0153-1, 2017.

B. Cărți si capitole în cărți publicate în ultimii 10 ani

1. Ildiko Tatai, Simona Ilie, "Analiza circuitelor electrice. Probleme", Ed. Politehnica, ISBN 978-606-35-0474-7, 2022.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Adrian-Emanuel Magheț; Simona Ilie; Dumitru Toader, „The Numerical Model of a PV System Supported by Experimental Validation” , Applied Sciences, DOI: 10.3390/app16041891, 2026.
2. I. Luminosu, A. De Sabata, D. Toader, D. Margineanu, S. Ilie, “Conception of a master degree program in Solar Energy: Infrastructure, Structure and Results”, Environmental Engineering and Management Journal, 2019.
3. A. Maghet, S. Ilie, I. Luminosu, A De Sabata, D. Toader, “Experimental model of thermo-solar power plant with beta Stirling engine and Fresnel lens”, International Symposium on Fundamentals of Electrical Engineering 2018 University POLITEHNICA of Bucharest, Romania, November 1–2, 2018.
4. S. Niyonzima, S. Ilie, N. Pop, J. Zs. Mezei, K. Chakrabarti, V. Morel, B. Peres, D. Little, K. Hassouni, A. Larson, A. E. Orel, D. Benredjem, A. Bultel, J. Tennyson, D. Reiter and I. F. Schneider - Low-energy collisions between electrons and BeH⁺: cross sections and rate coefficients for all the vibrational states of the ion, ScienceDirect, Atomic Data and Nuclear Data Tables, 2017.
5. Mezei Z.; Colboc F.; Pop N.; Ilie S.; Chakrabarti K.; Niyonzima S.; Lepers M.; Bultel A.; Dulieu O.; Motapon O.; Tennyson J.; Hassouni K.; Schneider I.; “Dissociative recombination and vibrational excitation of BF⁺ in low energy electron collisions”, Plasma Sources Science and Technology, 2016.
6. S. Ilie, D. Toader, F. Barvinschi, “Modern Education on Renewable Energies by Using Finite Element Method for a Solar Powered Stirling Engine with Heat Transfer Simulations”; International Symposium on Electronics and Telecommunications ISETC, pg. 137-140, 2016.

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)**- Reviste****- Selecție cu maximum 20 lucrări în volume de conferințe**

1. Vladimir B Stankovic, Dejan Jovanovic, Nenad N. Cvetković, Simona Ilie, Marian Greconici, „Smart helmet – evolution of personal protective equipment”, The 21st International Conference “Man and Working Environment”, DOI:10.46793/SEMSIE25.189S, 2025.
2. Simona ILIE , Adrian MAGHET, Ioan LUMINOSU, Tradition, actuality and future perspectives of solar energy at Politechnica University Timisoara, 21st International Conference “Man and Working Environment” – SEMSIE 2025.
3. Simona ILIE , Adrian MAGHET, Ildiko TATAI, Oana MARES, Dejan IOVANOVIC, Impact of dust on the performance of monocrystalline solar photovoltaic (PV) systems, 16th International Conference on Applied Electromagnetics – IIEC 2023.
4. Dejan Jovanovic, Vladimir B Stankovic, Dragana Živaljević, Dragan Vuckovic, Simona Ilie, „Effects of using metal frame glasses exposed to electromagnetic radiation from mobile phone”, Safety Engineering 10(1):1-8, DOI:10.5937/SE2001001J, 2020.
5. S. Ilie, Ildiko Tatai, Ciprian Sorândaru, Marian Greconici, Dumitru Toader, System for supplying electric energy with zero CO2 emissions, PES2017 Conference, Nis, Serbia, 2017.
6. S.Ilie, D. Toader, I. Luminosu, M. Greconici, F. Barvinschi, “Numerical Simulation of Heat Transfer inside a Beta Type Stirling Engine Using Concentrated Solar Energy and Artificial Heat Source”, Global Conference on Applied Physics and Mathematics, pg. 147-148, 2016.
7. S.Ilie, F. Barvinschi, D. Toader, M. Greconici, I. Luminosu, A. De Sabata, “Combined Simulations of Heat Transfer and Thermodynamic Cycle Processes Inside a Beta Stirling Engine by Using Two Different Software`s”, Global Conference on Applied Physics and Mathematics, pg. 159-160, 2016.

E. Brevete obținute în întreaga activitate**Data:**

27.05.2026

Semnătura:



A N E X A 4 . 1

Nume Prenume: CHIOREANU Călin

Gradul didactic: asistent

Instituția unde este titular: UPT

Facultatea:

Departamentul: BFI

L I S T A
lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Studiul Comportării Mașinii de Inducție în Regim de Generator Autoexcitat

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. "On Optimal Functioning of the Aeolian Electro-Power Systems, Advanced Materials Research, Vol.853(2014), pp345-351, Trans Tech Publications, Switzerland, ISSN print 1022-6680, ISSN web 1662-8985:2013 International Conference on Materials Science, Machinery and Energy Engineering, MSMEE 2013, December 2013, Hong Kong
2. "Upon Power Loses due to Current Harmonics in a Fotovoltaic System Operating at Maximim Power Point", Advanced Materials Research, Vol.853(2014), pp352-357, Trans Tech Publications, Switzerland' ISSN print 1022-6680, ISSN web 1662-8985, 2013 International Conference on Materials Science, Machinery and Energy Engineering, MSMEE 2013, December 2013, Hong Kong
3. On the Evaluation of Magnetic Saturation to the Asynchronous Machine, 2017 International Conference on Mathematics, Modeling and Simulation Technologies and Applications (MMSTA2017), December 24-25, 2017 in Xiamen, China, DEStech Publications, ISSN: 2475-8841, ISBN and DOI

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E. Brevete obținute în întreaga activitate

1.

Data: 20.05.2026

Semnătura:

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume: SAFTA Voicu-Ioan

Gradul didactic: Șef de lucrări

Instituția unde este titular: Universitatea POLITEHNICA Timișoara

Facultatea de MECANICĂ

Departamentul: Ingineria Materialelor și Fabricației

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

SAFTA Voicu-Ioan, Contribuții la sudarea MIG în impulsuri de curent a aliajului AlMgSi0.5, 2002

B. Cărți și capitole în cărți publicate în ultimii 20 ani

1. Richard Herman, Voicu-Ioan Safta, Viorel-Aurel Șerban, Tehnologii de fabricație pentru mecanică fină și mecatronică și prelucrări mecanice de precizie, Orizonturi Universitare, Timișoara ISBN 973-8109-58-2, 125 pag., 2001.
2. Voicu-Ioan Safta, Voicu-Ionel Safta, Defectoscopie nedistructivă industrială, Editura SUDURA; ISBN 973-99428-6-3, 528 pag., 2001.
3. Traian Fleșer, Voicu-Ioan Safta, Practica fabricării utilajelor tehnologice, Editura SUDURA, ISBN 973-99425-7-1, 154 pag., 2001.
4. Amza G., Deaconescu A., Deaconescu T., Ghiculescu D., Herman R., Lăcătuș E., Marinescu N., Mălaimare N., Mălaimare G., Nanu A., Oanca O., Obaciu G., Popa L., Safta Voicu-Ioan, Safta Voicu-Ionel, Tulcan Liliana, Tratat de tehnologii Neconvenționale, Prelucrarea prin eroziune cu unde ultrasonice, BREN, ISBN 973-648-385-1, 522 pag., 2004.
5. Voicu-Ioan Safta, Voicu-Ionel Safta, Încercările tehnologice și de rezistență ale îmbinărilor sudate sau lipite, Editura SUDURA, ISBN 973-8359-38-4, 360 pag., 2006.
6. Voicu-Ioan Safta, Calculul și construcția recipientelor sub presiune, Editura SUDURA, ISBN 978-973-2359-52-9, 271 pag., 2008.
7. Richard Herman, Voicu-Ioan Safta, Grundlagen der Werkstoffverfahren, Band I, Politehnica Timișoara, ISBN 978-973-625-983-8, 978-973-625-9, 194 pag., 2009.
8. Richard Herman, (Coordonator volum), Mircea Olaru, Nicolae Crainic, Antoniu Reviczky-Levay, Liliana Tulcan, Gabriel Mălaimare, Voicu-Ioan Safta, Adelina Han, Aplicații specifice în tehnologia materialelor, Politehnica Timișoara, ISBN 978-973-625-814-5, 160 pag., 2009.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Safta, V.I., SYNERGIC MASS TRANSFER FOR PULSED MIG WELDING OF ALUMINUM ALLOYS, METALURGIA INTERNATIONAL, ȘTIINȚIFICA FMR, ISSN 1582-2214, 23, 26, 4 pag., 2009, WOS:000265002800005.

2. Safta, V, Safta V.I., THE SIMULTANEOUS INFLUENCE OF FERRITIC GRAIN SIZE AND OF THE STRESS CONCENTRATION ON MECHANICAL CHARACTERISTICS OF A S23SN STEEL, METALURGIA INTERNATIONAL, STIINTIFICA FMR, ISSN 1582-2214, 26, 29, 4 PAG., 2010, WOS:000278729300006.
3. Safta, V.I., INFLUENCE OF THICKNESS ON ARC CHARACTERISTICS WHEN USING PULSED MIG WELDING FOR AlMgSi SHEETS IN AUTOMOBILE BODIES, METALURGIA INTERNATIONAL, STIINTIFICA FMR, ISSN 1582-2214, 35, 37, 3, pag., 2010, WOS:000275625500006.
4. Safta, V.I., RELATION BETWEEN THE COLD-HARDENING DEGREE, RESISTANCE AND DEFORMABILITY CHARACTERISTICS OF THE S 235N TYPE STEEL, METALURGIA INTERNATIONAL, STIINTIFICA FMR, ISSN 1582-2214, 101, 104, 4 pag., 2010, WOS:000283334500016.
5. Safta, V.I., GLOBAL INFLUENCE OF CONSTRUCTIVE AND FUNCTIONAL FACTORS ON THE MECHANICAL CHARACTERISTICS OF S23SN STEEL, METALURGIA INTERNATIONAL, STIINTIFICA FMR, ISSN 1 582-2214, 169, 174, 6 pag., 2012, WOS 000300590900034.
6. Voicu-Ioan Safta, DETERMINATION OF POISSONS RATIO OF LOW CARBON STEEL IN DIFFERENT PLASTIC STATE OF DEFORMATION USING A MICROSTRUCTURAL METHOD, PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A - MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE, EDITURA ACADEMIEI ROMÂNE, România, ISSN 1454-9069, 452, 457, 6 PAG., 2015, WOS:000300590900034.

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

- Selecție cu maximum 20 lucrări în volume de conferințe

1. V.I. Safta: Quantitative evaluation of the massic transfer in AlMgSi alloys pulsed MIG welding; Bull. Transilvania University Brasov, Supl.BRAMAT International Conference 2007, Transilvania University Press CNCSIS B+, ISSN 1223-9631;
2. V. Safta, V.I. Safta: "Analyse der Bewertungsgruppen von Schweißverbindungen"; Jahrbuch Schweißtechnik 1998, DVS Verlag Dusseldorf, p 273-286; ISBN 3-87155-743-9, ISSN 0935-0292;
3. V.I. Safta, B. Byhahn: „Cleaning and polishing the stainless steels welded joints surfaces obtained by MIG process”; Sudura vol.XIX, 2009, nr.2, p26-28, CNCSIS B+, ISSN 1453-0384;
4. I. Mitelea, M. Burcă, V.I. Safta, D. Ștefan: “Researches concerning the MIG pulse welding of the thermoresistent steels using the filler materials based on nickel alloys Part II.Quality of the welded joints”; Sudura vol.XIX, 2009, nr.1, p5-10, CNCSIS B+, ISSN 1453-0384;
5. V.I. Safta: “Experimental program for establishing the influence of MIG pulsed welding parameters of the AlMgSi 0,5 on the pulse power”; Sudura vol18, 2008, nr.6, p15-19, CNCSIS B+, ISSN 1453-0384;
6. V.I. Safta: “Causes of defects generation and possibilities to avoid them when using MIG and TIG aluminium alloy welding”; Sudura vol17, 2007, nr.6, p11-15, CNCSIS B+, ISSN 1453-0384;
7. V.I. Safta: “Influence of the welding parameters on the effective power in the MIG pulse proces of the AlMgSi 0,5 alloy”; Sudura vol17, 2007, nr.2 ,p11-15, CNCSIS B+, ISSN 1453-0384;

8. V.I. Safta: "The influence of wire electrode stick out on geometrical parameters in pulsed MIG welding of AlMgSi alloys"; Sudura vol16, 2006, nr.6, p5-10, CNCSIS B+, ISSN 1453-0384;
9. V.I. Safta: "The influence of pulse parameters on the effective voltage and effective intensity in MIG pulse welding of AlMgSi alloy"; Buletinul Institutului Național de cercetare și Dezvoltare BID-ISIM vol15 (2006), nr.4, p25-31, CNCSIS B+, ISSN 1453-0392;
10. Safta, V.I., Fleșer, T, Effect of the cold plastic deformation of the mechanical properties on the steels used in metallic structures, ELSEVIER SCIENCE BV, TIMISOARA; Romania, ISBN 0-08-043016-3, SEP 09-11, 1999, 6 pag., 6th International Colloquium on Stability and Ductility of steel Structures, 1999, 10.1016/B978-008043016-4/50005-2, WOS: 000083313700005.
11. Voicu-Ioan SAFTA, Voicu-Ionel Safta, Analyse der Bewertungsgruppen von Schweissverbindungen nach ISO 5817/DIN EN 25817 - Zerstörungsfreie Prüfverfahren, Jahrbuch Schweisstechnik, B+, Düsseldorf, Germany, ISBN 3-87155-743-9, ISSN 0935-0292, 273, 286, 1998.
12. Adrian Murariu, Voicu-Ioan Safta, Traian Fleșer, Investigation regarding the thermoplastic resistance evaluation with simulated imperfections, ADVANCES IN STRENGTH OF MATERIALS, B+, Dover, United Kingdom, ISSN 1013-9826, 131, 138, 2009.
13. Voicu-Ioan Safta, Voicu-Ionel Safta, Plastic deformation and fracture initiation typology analysis under triaxial tensile state of stress using quantitative assessment of microstructural changes, Applied Mechanics and Materials, Elsevier Science Direct, Pfaffikon, Switzerland, 17, 24, 2012.
14. Andreas Lehnertz, Voicu-Ioan SAFTA: Procedeu de mare randament pentru sudarea MIG/MAG a oțelurilor, Revista SUDURA ASR, B+, XXVIII Nr.2 – 2018, pag. 38 – 39, Timișoara, România, ISSN 1453 – 0384.
15. Voicu-Ionel Safta, Doru Dumbravă, Voicu-Ioan Safta, Contribuții teoretice și experimentale la studiul distribuției tensiunilor echivalente în îmbinările sudate de colț și frontale, OI-MICM, Timișoara, 2009-11-05, 374, 379, a VII-a Conferință Internațională de Sudură și Încercări de materiale.
16. Voicu-Ioan SAFTA, Șerban Șerb, Andreas Lehnertz: Extinderea domeniului de utilizare a procedurii de sudare WIG prin impulsuri reglabile de înaltă frecvență, Revista Sudura ASR, B+, , XXVII Nr.4/2017, pag.11 – 16, Timișoara, România, ISSN 1453-0384.
17. Voicu-Ioan SAFTA, Șerban Șerb: Concept nou de stabilire a tehnologie de sudare WIG, Revista Sudura ASR, B+, ,XXVII Nr.4/2017, pag. 20 – 21, Timișoara, România, ISSN 1453-0384.
18. Voicu-Ioan Safta, Concentrarea tensiunilor la îmbinarea ștuțurilor pe corpul recipientelor sub presiune, Buletinul științific al Universității "TRANSILVANIA" Brașov, Brașov, ISSN 1223-9631, 2001-05-05, 111, 118, Conferința Internațională BRAMAT, Brașov 2001.
19. Voicu-Ioan Safta, Paul Fogarassy, Voicu-Ionel Safta, Analiza numerică a vârfurilor de tensiune din principalele îmbinări sudate de colț, revista Sudura ASR, B+, Timișoara, România, ISSN 1453-0384, 11, 16, 2011.
20. Alin Murariu, Voicu-Ioan Safta, Horia Mateiu, Long term behaviour of Polyethylene P80 Pressurized Pipes in presence of longitudinal simulated imperfections, MATERIALE PLASTICE, ACM, București, România, ISBN 0025-5289, 263, 266, 2010

E. Brevete obținute în întreaga activitate

Data: 29.06.2026

Semnătura:

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume: NEGRU Radu-Marcel

Gradul didactic: conferențiar

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea:

Departamentul:

L I S T A**lucrărilor științifice în domeniul disciplinelor din postul didactic****A. Teza de doctorat**

Contribuții la studiul efectului de concentrare a tensiunilor cu aplicații în mecanica ruperii și oboseala materialelor

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. **Negru R.**, Pîrvulescu L.D., Sava M., Neguș N., Rezistența materialelor I. Teorie și aplicații, Editura Politehnica, **2018**, 251 pagini, ISBN 978-606-35-0171-5
2. **Negru R.**, Marșavina L., Metode moderne de evaluare a integrității și durabilității, Editura Politehnica, **2018**, 176 pagini, ISBN 978-606-35-0173-9
3. Șerban D.A., **Negru R.**, Rezistența materialelor. Solicitări simple, Editura Politehnica, **2019**, 155 pagini, ISBN 978-606-35-0276-7
4. Șerban D.A., **Negru R.**, Analiza structurilor mecanice cu Abaqus/CAE, Editura Politehnica, **2019**, 167 pagini, ISBN 978-606-35-0127-2

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. **R. Negru**, A.V. Coșa, A. Ianto, B. Tătar, R.C. Sîrbu, D.A. Șerban (**2025**) The Influence of the Manufacturing Technology on the Mechanical Properties of Woven Jute Fiber-Reinforced Epoxy Composites, *Polymers* 17, 1649.
2. A.V. Coșa, **R. Negru**, D.A. Șerban (**2025**) Development of Kagome-based functionally graded beams optimized for flexural loadings, *European Journal of Mechanics/A Solids* 109 (105474).
3. Cuzic, A. Jivănescu, R.M. Negru, I. Hulka, M. Romînu (**2023**) The Influence of Hydrofluoric Acid Temperature and Application Technique on Ceramic Surface Texture and Shear Bond Strength of an Adhesive Cement, *Materials* 16, 4303.
4. A.C. Măroiu, A. Jivănescu, D.A. Șerban, **R.M. Negru**, V.F. Duma, C. Sinescu, M. Romînu (**2023**) The Influence of a Novel, Crenelated Design of CAD-CAM Ceramic Veneers on the Debonding Strength, *Materials* 16 (10), 3694.
5. D.A. Șerban, A.V. Coșa, G. Belgiu, **R. Negru** (**2022**) Failure locus of an ABS-based compound manufactured through Photopolymerization, *Polymers* 14(18), 3822.
6. D.A. Șerban, C. Marșavina, A.V. Coșa, G. Belgiu, **R. Negru** (**2021**) A study of Yielding and Plasticity of Rapid Prototyped ABS, *Mathematics* 9, 1495.
7. D.A. Șerban, **R. Negru**, S. Sărăndan, G. Belgiu, L. Marșavina (**2019**) Numerical and experimental investigations on the mechanical properties of cellular structures with open Kelvin cells, *Mechanics of Advanced Materials and Structures* 28, 1367-1376.

8. **Negru R.**, Șerban D.A., Pop C., Marșavina L. (2018) Notch effect assessment in a PUR material using a ring shaped specimen, *Theoretical and Applied Fracture Mechanics* 97, 500-506.
9. Marșavina L., Berto F., **Negru R.**, Șerban D.A., Linul E. (2017) An engineering approach to predict mixed mode fracture of PUR foams based on ASSED and micromechanical modelling, *Theoretical and Applied Fracture Mechanics* 91, 148-154.
10. **Negru R.**, Șerban D.A., Marșavina L., Magda A. (2016) Lifetime prediction in medium-cycle fatigue regime of notched specimens, *Theoretical and Applied Fracture Mechanics* 84, 140-148.
11. Șerban D.A., Furtos G., Marsavina L., Șoșdean C., **Negru R.** (2023) Numerical modelling of the mechanical behaviour of wood fiber-reinforced geopolymers, *Continuum Mechanics and Thermodynamics* 35 (957-969).
12. Buncianu D., Tessier-Doyen N., Absi J., **Negru R.**, Șerban D.A., Marsavina I. (2020) Multi-scale mechanical behaviour of a highly porous alumina based foam, *Metals and Materials International* 26, 1524-1532.
13. Șerban D.A., **Negru R.**, Filipescu H., Marșavina L. (2023) Investigations of the influence of the triaxial state of stress on the failure of polyurethane rigid foams, *Continuum Mechanics and Thermodynamics* 35 (905-918).
14. L. Marșavina, **R. Negru**, D. Șerban, M. Marghitaș, C. Popa (2023) *Procedia Structural Integrity* 47, 744-748.
15. Sărândan S., **R. Negru**, L. Marșavina, M.S. Mihuța, D.A. Șerban (2023) Numerical analysis of a Rugby union protective headgear under impact loading, *Materials Today: Proceedings* 78, 319-325.
16. Piccotin A., Marșavina L., Berto F., **Negru R.** (2016) Fracture parameters determination of polyurethane materials for application of SED criteria to notched components, *21st European Conference on Fracture, Catania, Italy, 20-24 June*.
17. Șerban D.A., Marsavina L., Rusu L., **Negru R.** (2019) Numerical study of the behavior of magnesium alloy AM50 in tensile and torsional loadings, *Archive of Applied Mechanics* 89, 911-917.
18. Linul E., Korniejenko K., Șerban D.A., **Negru R.**, Marsavina L., Lach M., Mikula J. (2018) Quasi-static mechanical characterization of lightweight fly ash-based geopolymer foams, *7th International Conference on Advanced Materials and Structures AMS 201, Timișoara, Romania 2018*, IOP Conf. Series: Materials Science and Engineering 416, 012102.
19. Șerban D.A., Tessier-Doyen N., Absi J., Marsavina L., **Negru R.** (2018) Evaluation of the elastic properties of highly porous alumina foams using finite element analysis, *7th International Conference on Advanced Materials and Structures AMS 201, Timișoara, Romania 2018*, IOP Conf. Series: Materials Science and Engineering 416, 012103.
20. Șerban D.A., Sărândan S., **Negru R.**, Belgiu G., Marsavina L. (2018) A parametric study of the mechanical properties of open-cell Kelvin structures, *7th International Conference on Advanced Materials and Structures AMS 201, Timișoara, Romania 2018*, IOP Conf. Series: Materials Science and Engineering 416, 012108.
21. Marsavina L., Șerban D.A., Pop C., **Negru R.** (2017) Experimental investigation of failure modes for sandwich beams, *16th International Conference on Fracture and Damage Mechanics, 18-20 September 2017, Florence, Italy* in Key Engineering Materials 754, 115-118.
22. **Negru R.**, Marsavina L., Hlușcu M. (2016) Experimental and numerical investigations on adhesively bonded joints, *3rd International Conference on Competitive Materials and Technology Processes, IC-CMTP 2014, Miskolc-Lillafured, Hungary*, IOP Conf. Series: Materials Science and Engineering vol. 123, issue 1, article number 012012.
23. Marsavina L., Linul E., Voiconi T., **Negru R.** (2016) Experimental investigations and numerical simulations of notch effect in cellular plastic materials, *3rd International Conference on*

Competitive Materials and Technology Processes, IC-CMTP 2014, Miskolc-Lillafured, Hungary, IOP Conf. Series: Materials Science and Engineering vol. 123, issue 1, article number 012060.

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1. Marsavina L., Rusu L., Șerban D.A., **Negru R.**, Cernescu A. (2017) Fatigue analysis of magnesium alloys components for car industry, *Acta Universitatis Cibiniensis – Technical Series* vol. LXIX.
2. A.C. Măroiu, C. Sinescu, **R. Negru**, L. Marșavina, I.D. Bretean, V.F. Duma, M. Romînu, C.M. Borțun, M.L. Negruțiu (2017) *Revista de Chimie* 68 (9) 2025-2028.

- Selecție cu maximum 20 lucrări în volume de conferințe

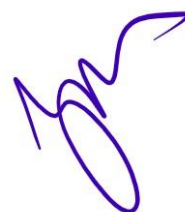
3. Marsavina L., Șerban D.A., Pop C., Negru R. (2017) Experimental investigation of failure modes for sandwich beams, *16th International Conference on Fracture and Damage Mechanics, 18-20 September 2017, Florence, Italy* in *Key Engineering Materials* 754, 115-118.
4. R.C. Sîrbu, A.V. Coșa, R. Negru, L. Rusu, D.A. Șerban (2024) *Advanced Materials and Structures Conference AMS 2024*, IOP Conf. Series: Materials Science and Engineering 1319, 012031.

E. Brevete obținute în întreaga activitate

Data: 02.06.2026

Semnătura:

E – Brevete (pentru întreaga activitate)



A N E X A 4 . 1

Nume Prenume: Popa Cosmin-Florin

Gradul didactic: Asistent Universitar

Instituția unde este titular: Universitatea Politehnica Timisoara

Facultatea: Facultatea de Mecanica

Departamentul: Mecanica si Rezistenta Materialelor

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

-

B. Cărți si capitole în cărți publicate în ultimii 10 ani

1. -

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Burca, B.A., Popa, C.F., Galatanu, S.-V.; Numerical analysis of osteosynthesis plates used in the reconstruction of the mandible; Materials Today: Proceedings, 2022, 78, pp. 337–342
2. L. Marsavina, R. Negru, D. Serban, M.i Marghitas, C. F. Popa; The notch effect on additive manufactured polymers; Procedia Structural Integrity, Volume 47, 2023, Pages 744-748
3. Marghitas M.-P., Marsavina L., Popa C.-F., Brighenti R.; On the mixed mode fracture of DLP manufactured SCB specimens ; Procedia Structural Integrity 56(2):26-32
4. Krausz T., Popa C.-F., Topircean C.-D., Rusu L., Marsavian L.; Temperature and Thermal Aging Effects on the Mechanical Response of Polycarbonate Materials; Procedia Structural Integrity 56(10):71-77
5. Galațanu S.-V., Serralha F. N., Marghitas M.-P., Sosdean C., Popa C.-F., Emanoil L., Marsavian L.; Mechanical behavior of recycled FDM printed parts from PETG in the circular economy; Procedia Structural Integrity 56 (2024) 138–143
6. Milovanović A., Galațanu S.-V., Sedmak A., Marsavian L., Trajkovic I., Popa C.-F., Milosevic M.; Layer thickness influence on impact properties of FDM printed PLA material; Procedia Structural Integrity 56 (2024) 190–197
7. Popa, C.F., Krausz, T., Galatanu, S.-V., Marsavina, L.; The influence of contour on FDM parts for the Shear Test 10.1016/j.prostr.2024.02.053; Procedia Structural Integrity 56 (2024) 176–183
8. Popa, C.F., Galațanu S.-V., Marsavina, L.; Prediction of the tensile strength of FDM specimens based on Tsai Hill criteria; May 2025 Fracture and Structural Integrity 19(73):153-165
9. Marghitas M.-P., Popa C.-F., Marsavina L.; On the Size and Notch Effect in AM Photo-Polymerized Components; June 2025 Fatigue & Fracture of Engineering Materials & Structures 48(9):3790-3804

10. Popa, C.F., Krausz, T., Galatanu, S.-V., Linul, E., Marsavina, L.; Numerical and experimental study for FDM printed specimens from PLA under IZOD impact tests; Materials Today: Proceedings, 2023, 78, pp. 326–330
11. Popa, C.-F., Marghitas, M.-P., Galatanu, S.-V., Marsavina, L.; Influence of thickness on the IZOD impact strength of FDM printed specimens from PLA and PETG; Procedia Structural Integrity, 2022, 41(C), pp. 557–563
12. Galatanu S.-V., Duma I., Popa C.-F., Murariu A. C., Perianu I. A., Marsavina L.; Numerical and Experimental Study for Al4043A Aluminium-Silicium Alloy Fabricated by Wire Arc Additive Manufacturing under Dynamic Tests; Nano Hybrids and Composites
13. Krausz, T., Popa, C.F., Galatanu, S.-V., Linul, E., Marsavina, L.; NUMERICAL AND EXPERIMENTAL STUDY FOR POLYCARBONATE COMPOSITES UNDER STATIC AND DYNAMIC TESTS; Original scientific paper

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

1. Burca, B.A., Popa, C.F., Galatanu, S.-V.; Numerical analysis of osteosynthesis plates used in the reconstruction of the mandible; Materials Today: Proceedings, 2022, 78, pp. 337–342
2. L. Marsavina, R. Negru, D. Serban, M.i Marghitas, C. F. Popa; The notch effect on additive manufactured polymers; Procedia Structural Integrity, Volume 47, 2023, Pages 744-748
3. Marghitas M.-P., Marsavina L., Popa C.-F., Brighenti R.; On the mixed mode fracture of DLP manufactured SCB specimens ; Procedia Structural Integrity 56(2):26-32
4. Krausz T., Popa C.-F., Topircean C.-D., Rusu L., Marsavian L.; Temperature and Thermal Aging Effects on the Mechanical Response of Polycarbonate Materials; Procedia Structural Integrity 56(10):71-77
5. Galațanu S.-V., Serralha F. N., Marghitas M.-P., Sosdean C., Popa C.-F., Emanoil L., Marsavian L.; Mechanical behavior of recycled FDM printed parts from PETG in the circular economy; Procedia Structural Integrity 56 (2024) 138–143
6. Milovanović A., Galațanu S.-V., Sedmak A., Marsavian L., Trajkovic I., Popa C.-F., Milosevic M.; Layer thickness influence on impact properties of FDM printed PLA material; Procedia Structural Integrity 56 (2024) 190–197
7. Popa, C.F., Krausz, T., Galatanu, S.-V., Marsavina, L.; The influence of contour on FDM parts for the Shear Test 10.1016/j.prostr.2024.02.053; Procedia Structural Integrity 56 (2024) 176–183
8. Popa, C.F., Galațanu S.-V., Marsavina, L.; Prediction of the tensile strength of FDM specimens based on Tsai Hill criteria; May 2025 Fracture and Structural Integrity 19(73):153-165
9. Marghitas M.-P., Popa C.-F., Marsavina L.; On the Size and Notch Effect in AM Photo-Polymerized Components; June 2025 Fatigue & Fracture of Engineering Materials & Structures 48(9):3790-3804

10. Popa, C.F., Krausz, T., Galatanu, S.-V., Linul, E., Marsavina, L.; Numerical and experimental study for FDM printed specimens from PLA under IZOD impact tests; Materials Today: Proceedings, 2023, 78, pp. 326–330
11. Popa, C.-F., Marghitas, M.-P., Galatanu, S.-V., Marsavina, L.; Influence of thickness on the IZOD impact strength of FDM printed specimens from PLA and PETG; Procedia Structural Integrity, 2022, 41(C), pp. 557–563
12. Galatanu S.-V., Duma I., Popa C.-F., Murariu A. C., Perianu I. A., Marsavina L.; Numerical and Experimental Study for Al4043A Aluminium-Silicium Alloy Fabricated by Wire Arc Additive Manufacturing under Dynamic Tests; Nano Hybrids and Composites
13. Krausz, T., Popa, C.F., Galatanu, S.-V., Linul, E., Marsavina, L.; NUMERICAL AND EXPERIMENTAL STUDY FOR POLYCARBONATE COMPOSITES UNDER STATIC AND DYNAMIC TESTS; Original scientific paper

E. Brevete obținute în întreaga activitate

1.

Data:

Semnătura:

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume: TOTOREAN Alin-Florin

Gradul didactic: Șef de lucrări

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: Mecanică

Departamentul: Mecanică și Rezistența Materialelor

L I S T A
lucrărilor științifice în domeniul disciplinelor din postul didactic**A. Teza de doctorat**

“Curgerea în tuburi elicoidale. Aplicații medicale în intervențiile chirurgicale de tip bypass coronarian”

B. Cărți și capitole în cărți publicate în ultimii 10 ani

Nr. crt.	Titlu	Autori	Editura	An	ISBN	Pag
1.	Hemodinamică – note de curs	Alin-Florin TOTOREAN	Politehnica	2019	978-606-35-0283-5	179
2.	Metode numerice aplicate în investigarea sistemului cardiovascular. Hemodinamica bypass-ului aortocoronarian	Alin-Florin TOTOREAN , Șandor I. BERNAD, Claudia I. TOTOREAN	Politehnica	2019	978-606-35-0282-8	139
3.	Computational Fluid Dynamics Applications in Cardiovascular Medicine—from Medical Image-Based Modeling to Simulation: Numerical Analysis of Blood Flow in Abdominal Aorta (capitol de carte în: <i>Zeidan, D., Zhang, L.T., Da Silva, E.G., Merker, J. (eds) Advances in Fluid Mechanics. Forum for Interdisciplinary Mathematics</i>)	Alin-Florin Totorean , Sandor Ianos Bernad, Tiberiu Ciocan, Iuliana-Claudia Totorean, Elena Silvia Bernad	Springer	2022	978-981-19-1437-9	42
4.	Aparate de Anestezie și	Alin-Florin	Politehnica	2024	978-606-35-	176

	Terapie Intensivă	TOTOREAN, Antonius STANCIU			0578-2	
--	-------------------	---	--	--	--------	--

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Lucrări indexate ISI

Nr.	Anul	Autor(i)	TITLU ARTICOL	Revista/conferința	ISSN/ISBN
1	2022	Totorean AF, Totorean IC, Bernad SI, Ciocan T, Malita DC, Gaita D, Bernad ES	Patient-Specific Image- Based Computational Fluid Dynamics Analysis of Abdominal Aorta and Branches	Journal of Personalized Medicine	2075-4426
2	2019	Totorean AF, Totorean IC, Bernad SI	Local vs. Global Parameters in Case of Grid-Sensitivity Study for Computational Fluid Dynamics with Application in Bypass Hemodynamics	ICNAAM 2018 - International Conference of Numerical Analysis and Applied Mathematics	0094-243X
3	2019	Totorean IC, Totorean AF, Bernad SI, Gaita D	Flow Field Alterations in Case of Coronary Stent Malapposition - a Computational Fluid Dynamics Study	ICNAAM 2018 - International Conference of Numerical Analysis and Applied Mathematics	0094-243X
4	2019	Totorean AF, Hudrea IC	Local hemodynamics in coronary bypass in the presence of competitive flow and different diameter ratios between graft and host artery	World Congress on Medical Physics and Biomedical Engineering WC 2018	16800737
5	2019	Hudrea IC, Totorean AF, Gaita D	Computational fluid dynamics analysis of coronary stent malapposition	World Congress on Medical Physics and Biomedical Engineering WC 2018	16800737
6	2018	Totorean AF, Hudrea IC, Bernad SI, Gaita DI	Anastomosis configuration influence on local hemodynamics in coronary bypass	ICNAAM 2017 – 15th International Conference of Numerical Analysis and Applied Mathematics	0094-243X
7	2018	Totorean AF, Hudrea IC, Sandor B	Fluid dynamics in simplified pre and post-stented coronary bifurcation	Acoustics and Vibrations of Mechanical Structures, Timisoara, Mai 2017	0930-8989

8	2017	Totorean AF , Bernad SI, Hudrea IC, Susan-Resiga RF	Competitive flow and anastomosis angle influence on bypass hemodynamics in unsteady flow conditions	ICNAAM 2016 – 14th International Conference of Numerical Analysis and Applied Mathematics	0094-243X
9	2017	Bernad SI, Bosioc AI, Totorean AF , Petre I, Bernad ES	Wall shear stress evolution in carotid artery bifurcation	ICNAAM 2016 – 14th International Conference of Numerical Analysis and Applied Mathematics	0094-243X
10	2017	Totorean AF , Hudrea CI, Bosioc AI, Bernad SI	Flow field evolution in stented versus stenosed coronary artery	Proceedings of the Romanian Academy - Series A- Mathematics Physics Technical Sciences Information Science	1454-9069
11	2016	S.I. Bernad, A.F. Totorean , L. Vekas	Particles deposition induced by the magnetic field in the coronary bypass graft model	Journal of Magnetism and Magnetic Materials	0304-8853
12	2016	A.F. Totorean , Sandor I. Bernad, Romeo F. Susan-Resiga	Fluid dynamics in helical geometries with applications for by-pass grafts	Applied Mathematics and Computation	0096-3003
13	2015	Alin F. Totorean , Alin I. BOSIOC, Sandor I. BERNAD, Romeo SUSAN-RESIGA	Critical flow regions in the coronary by-pass graft anastomosis	Proceedings of the Romanian Academy, Series A	1454-9069
14	2015	A.F. Totorean , S.I. Bernad, R.F. Susan-Resiga	The influence of stenosis degrees and graft suture position on local hemodynamics of coronary bypass	ICNAAM 2015 – 13th International Conference of Numerical Analysis and Applied Mathematics	0094-243X 978-0-7354-1392-4
15	2015	S.I. Bernad, A. Bosioc, E.S. Bernad, I. Petre, A.F. Totorean	Flow characteristics in narrowed coronary bypass graft	ICNAAM 2015 – 13th International Conference of Numerical Analysis and Applied Mathematics	0094-243X 978-0-7354-1392-4
16	2015	S.I. Bernad, A.F. Totorean , A.I. Bosioc, I. Petre, E.S. Bernad	Stent implantation influence wall shear stress evolution	ICNAAM 2015 – 13th International Conference of Numerical Analysis and Applied Mathematics	0094-243X 978-0-7354-1392-4
17	2015	A.F. Totorean , S.I. Bernad, A.	The Influence of Number of Turns to Helicity Variations	AIP Conf. Proc. Vol. 1702	978-0-7354-1349-

		Bosioc, I.C. Hudrea, E.S. Bernad, R.F. Susan-Resiga	at the Outlet Sections in Helical Geometries with Applications for By-pass Graft	International Conference of Computational Methods in Sciences and Engineering 2015 (ICCMSE 2015)	8
18	2015	E.S. Bernad, S.I. Bernad, A.F. Totorean , C.I. Hudrea, A.I. Bosioc, N. Crainic	Fluid Dynamics in 45 degrees Arterial By-pass Model	AIP Conf. Proc. Vol. 1702 International Conference of Computational Methods in Sciences and Engineering 2015 (ICCMSE 2015)	978-0- 7354-1349- 8
19	2015	S. I. Bernad, A.F. Totorean , A. Bosioc, N. Crainic, I.C. Hudrea, E. S. Bernad	Fluid Mechanics in Stented Arterial Model	AIP Conf. Proc. Vol. 1702 International Conference of Computational Methods in Sciences and Engineering 2015 (ICCMSE 2015)	978-0- 7354-1349- 8
20	2015	E.S. Bernad, C.I. Hudrea, S.I. Bernad, A.F. Totorean , A. I. Bosioc	Luminal Flow Alteration in Presence of the Stent	AIP Conf. Proc. Vol. 1702 International Conference of Computational Methods in Sciences and Engineering 2015 (ICCMSE 2015)	978-0- 7354-1349- 8
21	2014	A.F. Totorean , S. Bernad, R. Susan-Resiga	A helical pipe investigation from a cardiovascular perspective	AIP Conference Proceedings, Volume: 1648 12th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM 2014)	0094-243X
22	2014	A. F. Totorean , A. I. BOSIOC, S. I. BERNAD, R. SUSAN- RESIGA	Identification and visualization of vortices in by-pass graft flow	Proceedings of the Romanian Academy, Series A	1454-9069
23	2014	Y.G. Zwienskii, A.V. Mnerie, D. Mnerie, A. Totorean	Research for capitalization at a higher quality of the whey	Actual Tasks on Agricultural Engineering – Zagreb, volume 42	1848-4425

2. Lucrări indexate BDI

Nr.	Anul	Autor(i)	Titlu articol	Revista/conferința	ISSN/ISBN	Cotatie
24	2024	Totorean A , Lancere L, Horsak B, Simonlehner M, Stoia DI, Crisan-Vida M, Moco D, Fernandes R, Gere A, Sterckx Y, Zulkarnain A, Gal-Nadasan N, Stoia A,	Heart Rate and Surface Electromyography Analysis to Assess Physical Activity Using a Virtual-Reality Exergame	17th International Conference on Acoustics and Vibration of Mechanical Structures, AVMS 2023	978-303148086-7	Scopus
25	2024	Stoia DI, Galescu-Blidariu M, Stoia A, Totorean A	Upper Limb Motion Analysis During a Virtual Reality Fitness Game	17th International Conference on Acoustics and Vibration of Mechanical Structures, AVMS 2023	978-303148086-7	Scopus
26	2022	Totorean AF , Totorean IC, Bernad SI	Numerical Study of Blood Flow Characteristics In Patient-Specific Renal Arteries Configuration	ICNAAM 2020 - International Conference of Numerical Analysis and Applied Mathematics,	0094-243X	Scopus
27	2022	Ioncica MC, Totorean AF , Bernad SI	Influence of the Stent Geometry on Flow Parameters After Arterial Stent Placement	Springer Proceedings in Physics, 16th Conference on Acoustics and Vibration of Mechanical Structures, AVMS 2021	978-303096786-4	2021
28	2021	Totorean A , Ioncica MC, Ciocan T, Bernad SI, Totorean CI, Bernad ES	Medical IMAGE-Based Numerical Simulation of the Abdominal Aorta Flow	Proceedings of 2021 10th International Conference on ENERGY and ENVIRONMENT, CIEM 2021	978-166544584-9	Scopus
29	2021	Ioncica MC, Totorean AF , Ciocan T, Bernad SI, Totorean CI, Bernad ES	Drug Particle Dynamics in the Two Different Simplified Stent Geometries	Proceedings of 2021 10th International Conference on ENERGY and ENVIRONMENT, CIEM 2021	978-166544584-9	Scopus
30	2021	Lupsa M, Totorean A , Stoia DI, Totorean A	Biomechanical Evaluation of Medical Rehabilitation for a	Springer Proceedings in Physics, 15th Conference on Acoustics and Vibration	9308989	Scopus

			Patient with Ankle Fracture	of Mechanical Structures, AVMS 2019		
31	2021	Totorean A , Totorean IC, Bernad S, Gaita D	Numerical Investigation of an Idealized Overlapping Coronary Stents Configuration	Springer Proceedings in Physics, 15th Conference on Acoustics and Vibration of Mechanical Structures, AVMS 2019	9308989	Scopus
32	2017	Bernad ES, Bernad SI, Totorean AF , Bosioc AI, Sargan I	Flow patterns in helical-type graft: Biomedical applications	International Journal of Design & Nature and Ecodynamics	1755-7437	CrossRef
33	2015	S.I. Bernad, E.S. Bernad, A.F. Totorean , M.L. Craina, I. Sargan	Clinical Important Hemodynamic Characteristics For Serial Stenosed Coronary Artery	International Journal of Design & Nature and Ecodynamics	1755-7437	CrossRef

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1. -

Selecție cu maximum 20 lucrări în volume de conferințe

Nr.	Anul	Luna	Autor(i)	Titlu articol	Revista/conferința
1	2019	01	Dan Ioan STOIA, Alin-Florin TOTOREAN	Analytical model for computing translational and rotational angular momentum occurring in treadmill walking	ICCMAE 2018 – 1st International Conference on Computational Methods and Applications in Engineering

E. Brevete obținute în întreaga activitate

1. -

Data: 21.11.2025

Semnătura:

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume: Simoiu Dorin Gheorghe

Gradul didactic: s.l.

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: Mecanică

Departamentul: Mecanică și Rezistența Materialelor

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Studii teoretice și experimentale privind sarcinile induse de vânt asupra unei structuri mecanice. Aplicații la o structură de antenă parabolică, 2008, ISBN :978-973-625-645-5

B. Cărți și capitole în cărți publicate în ultimii 10 ani**C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani**

1. R. Moisa, S. Gălățanu, D. Simoiu, C. Voica, I Crăștiu, L Bereteu, Mechanical Impulse Technique Used to determine the Elastic Characteristics of Welded Steel Bars of Concrete Reinforcements Compared with those Obtained by Analytical, Numerical and Experimental Methods, 2021 IEEE 15th International Symposium on Applied Computational Intelligence and Informatics (SACI)
2. A Neamțu, D Simoiu, E Nyaguly, I Crastiu and L Bereteu, Analysis of whole-body vibration on rheological models for tissues, IOP Conf. Series: Materials Science and Engineering 294 (2017)
3. S C Deac, A Perescu, D Simoiu, E Nyaguly, I Crăștiu and L Bereteu, Modeling and simulation of cars in frontal collision, IOP Conf. Series: Materials Science and Engineering 294 (2017)
4. Ion Crastiu, Dorin Simoiu, Eva Nyaguly, Liviu Bereteu, Determination of Flexural Critical Speed of a Rotor by Vibroacustical Signal Analysis, Acoustics and Vibration of Mechanical Structures—AVMS-2017

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)**- Selecție cu maximum 20 lucrări în volume de conferințe**

1. Bereteu Liviu, Bordeasu Ilare, Draganescu Gheorghe, Simoiu Dorin, Micu Lavinia, Salceanu Cornelia, Vibroacustical method for measuring the effect of cavitation erosion, Applied Mechanics and Materials, 2015
2. Bereteu Liviu, Nyaguly Eva, Draganescu Gheorghe, Simoiu Dorin, Determination of coating thickness using impulse excitation and laser measurements, Applied Mechanics and Materials, 2015

Data:

Semnătura:

A N E X A 4 . 1

Nume Prenume: NEGOIȚESCU ARINA-SPERANȚA

Gradul didactic: Conferențiar universitar

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: Mecanică

Departamentul: Mașini Mecanice, Utilaje și Transporturi

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Negoîțescu, A. *Studii și cercetări privind recuperarea parțială a căldurii transferate izvorului rece de către mașinile termice*". Universitatea Politehnica Timișoara, 2004

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. **Negoîțescu A.**, Tokar A, Negoîțescu, D. *Influence of Dyeing/Drying Booths Operating Parameters on the Painted Products Quality*, Analele Universității "Eftimie Murgu", Anul XXV, Nr. 1, ISSN 1453 – 7397, pp. 81-89, Reșița, 2018
2. Tokar A, **Negoîțescu A.**, Negoîțescu, D., Adam, M. *A Solution to Reduce Pollutant Emissions by Recovering the Flue Gases Waste Heat*, Analele Universității "Eftimie Murgu", Anul XXV, Nr. 1, ISSN 1453 – 7397, pp. 126 - 131, Reșița, 2018
3. Tokar A, **Negoîțescu A.**, Rusen, A. *Solutions to recover the energy lost to an industrial consumer*, IOP Conf. Series: Materials Science and Engineering 393, pp. 1-10, IOP Publishing, KOD 2018
4. Tokar, D., Negoîțescu D., Tokar, A., **Negoîțescu, A.** *Causes regarding the efficiency reduction of the solar systems with photovoltaic PV panels*, IOP Conf. Series: Materials Science and Engineering 393, pp. 1-8, IOP Publishing, KOD 2018
5. **Negoîțescu A.**, Tokar A. *Thermal Systems Modeling for the Heating Process Efficiency Improvement in Industrial Spaces*, Annals of Faculty Engineering Hunedoara, International Journal of Engineering, pp. 111-116, ISSN 1584-2673, Hunedoara, 2017
6. Negoîțescu D., Tokar D. , Tokar A., **Negoîțescu A.**, *Aspects regarding the Valorization of the Air Jets Energy Potential from Industrial Technological Equipment*, Analele Universității "Eftimie Murgu", ISSN 1453 – 7397, pp. 267-278, Reșița, 2017
7. **Negoîțescu A.**, Tokar A, Hamat C. *The Influence of the Air Thermal and Rainfall Regimes on Storagee Lakes Water Turbidity*, Revista de Materiale Plastice, Vol. 53, nr.3, pp. 542-545, Chem. Abs. RCBUAU 63(10) (1079-1083) ISSN 0025-5289, București, 2016
8. Tokar A., **Negoîțescu A.**, Hamat C., Roșu Ș. *The Chemical and Ecological State Evaluation of a Storage Lake*, Revista de Materiale Chimie, Vol. 67, nr.9, pp. 1860-1863, Chem. Abs. RCBUAU 63(10) (1079-1083) ISSN 0034-7752, București, 2016



9. **Negoîtescu A., Tokar A.,** *Solar Energy as an Alternative to Energy Saving and Pollutant Emissions Reduction*, Analele Universității “Eftimie Murgu”, ISSN 1453 – 7397, pp. 195-202, Reșița, 2016

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

E. Brevete obținute în întreaga activitate

Data: 06.11.2025

Semnătura:

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume: Vetres Ion

Gradul didactic: Sef Lucrari

Instituția unde este titular: UNIVERSITATEA POLITEHNICA TIMISOARA

Facultatea: Mecanica

Departamentul: .MMUT

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Vetreș Ion, Studii si cercetări privind implementarea sistemului multicanal, Universitatea Politehnica din Timișoara, România, 2011.

B. Cărți si capitole în cărți publicate în ultimii 10 ani

1. Ioana Ionel, Irimescu Adrian, Lontis Nicolae, Popescu Francisc, Trif Tordai Gavrilă, Vetres Ion, Cebrucean Dumitru, Cioabla Adrian Eugen, **Resurse nepoluante de energie. Teme experimentale.**, Ed. Politehnica Timisoara, ISBN 978-973-625-947-0, 2009
2. Ioana Ionel, Traian Fleser, Ioan Vetreș (editori), Proc. at 35th Cong. American Romanian Academy of Arts and Sciences (ARA): Science and Art in the Informatics Era". , Presses Internationales POLYTECHNIQUE , Montreal . Quebec, ISBN PIP ISBN 978 – 2 – 553 –01596– 0, 255 pag., 2011
3. Ioana Ionel, Bodo Barna, Katalin Kovacs, Olivia Bundau, Francisc Popescu, Nicolae Lontis, Ion Vetreș, Laszlo Makra , Culture and air quality, Editura Politehnica, Timișoara, România, ISBN 978-606-554-669-1, 215 pag., martie 2013

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Vetres I, Ionel I, Popescu Francisc, Nicolae D, Talianu C, Dungan L., **LIDAR system implementation and development for novel Romanian systems**, OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, Vol.4(8), pp.1074-1077, 2010
2. A. Papayannis, D. Nicolae, P. Kokkalis, I. Binietoglou, C. Talianu, L. Belegante, G. Tsaknakis, M.M. Cazacu, I. Vetres , L. Ilic Optical, size and mass properties of mixed type aerosols in Greece and Romania as observed by synergy of lidar and sunphotometers in combination with model simulations: A case study, Science of the Total Environment, 500–501 (2014) 277–294, 2014,
3. Vetres I, Ionel I, Popescu Francisc, Lontis N, **Air pollution analysis in western Romania and the necessity of complementary vertical resolved LIDAR observation**, OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.4(8), pp.1256-1260, 2010
4. Ionel Ioana, N.Lontis, Popescu Francisc, Vetres I, **Clean energy from agri-food industry wastes. Method to obtain biodiesel from waste fats**, International Conference Integrated Systems for agro food production, SIPA'09, Editura Laszlo Sikolya, Gabor Pay, Nyiregyhaza, Hungary, 2009, 12 - 14 noiembrie, ISBN 978-973-638-449-3, pp. 55
5. Ion Vetres, Ioana Ionel, Popescu Francisc, L. Dungan, **Air Pollution Analysis in Western Romania and Necessity of Complementar Vertical Resolved LIDAR Observations**, 3rd Workshop on Optoelectronic Techniques for Environmental Monitoring, OTEM 2009, Bucharest, 30 Sept - 2 Oct. 2009, Published by INOE, ISSN 2066-851, pp. 32 - 36

6. Ioana Ionel, Popescu Francisc, Vetres Ion, Nicolae Doina, Talianu Camelia, L. Dungan, **LIDAR. System implementation and development in Timisoara urban area**, 3rd Workshop on Optoelectronic Techniques for Environmental Monitoring, OTEM 2009, Bucharest, 30 Sept - 2 Oct. 2009, Published by INOE, ISSN 2066-851, 63 - 67
7. Calinoiu Delia, Ionel I, Popescu Francisc, Trif-Tordai Gavrilă, Nisulescu C, Vetres I, **Recent sun photometry measurements in Romania, as part of the AERONET Network**, Revista Termotehnica (Index Copernicus), Vol. 2, pp. 34-37, 2011
8. Calinoiu DG, Ionel I, Sevaljevic M, Pavlovic M, Makra L, Vetreș Ion, Trif-Tordai G, THERMODYNAMIC STUDY OF ATMOSPHERIC CORROSION SEASONAL KINETIC, BASED ON SUN PHOTOMETER DATA, TEHNICKI VJESNIK-TECHNICAL GAZETTE, 2014, vol 21, pag 8
9. Vetreș, I; Ionel, I; Cazacu, MM; Balin, I, NECESSITY OF COMPLEMENTARY VERTICALLY-RESOLVED LIDAR OBSERVATION FOR GROUND AIR POLLUTION ANALYSIS IN WESTERN ROMANIA, JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY, SCIBULCOM LTD, Bulgaria, ISSN 1311-5065, 409, 419, 11 pag., 2012, WOS:000306252600001
10. Cioabla, AE; Ionel, I; Trif-Tordai, G; Irimescu, A; Vetreș, I, STUDY ON THE QUALITY OF BIOGAS OBTAINED FROM AGRICULTURAL RESIDUES DURING ANAEROBIC FERMENTATION, JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY, SCIBULCOM LTD, Greece, ISSN 1311-5065, 247, 255, 9 pag., 2013, WOS:000317437400030
11. Padure, G; Irimescu, A; Calin, L; Trif-Tordai, G; Cioabla, AE; Vetreș, I, THEORETICAL STUDY OF EMISSIONS FOR STATIONARY SPARK IGNITION ENGINES FUELLED WITH BIOGAS, JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY, SCIBULCOM LTD, ISSN 1311-5065, 1047, 1052, 6 pag., 2012, WOS:000310557400031
12. Padure, G; Irimescu, A; Calin, L; Trif-Tordai, G; Cioabla, AE; Vetreș, I, INITIAL THEORETICAL DEVELOPMENT OF AN ISOBUTANOL-METHANE DUAL FUEL SYSTEM FOR A SPARK IGNITION ENGINE, JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY, SCIBULCOM LTD, ISSN 1311-5065, 1053, 1060, 8 pag., 2012, WOS:000310557400032
13. Catalin, NG; Ionel, I; Calinoiu, D; **Vetreș, I**, Air pollution monitoring in a town nearly power plant, ADVANCES IN BIOLOGY, BIOENGINEERING AND ENVIRONMENT, WORLD SCIENTIFIC AND ENGINEERING ACAD AND SOC, Athens, ISBN 978-960-474-261-5, ISSN 1792-7412, DEC 29-31, 2010, 4 pag., 6th WSEAS International Conference on CELLULAR and MOLECULAR BIOLOGY, BIOPHYSICS and BIOENGINEERING/8th International Conference on ENVIRONMENT, ECOSYSTEMS and DEVELOPMENT/International Conference on Bioscience and Bioinformatics, 2010, WOS:000300024800034
14. Malan, B; **Vetreș, I**; Ionel, I; Lontis, Timisoara Aerosols Investigated with Remote Sensing Systems, REVISTA DE CHIMIE, Vol. 64, Nr. 8, paginile 894-898, august 2013
15. **Vetreș Ion**, Malan Bassim, Ionel Ioana, LIDAR and sunphotometer for aerosol investigation in Timișoara, Buletinul AGIR , B+, Nyíregyháza, Hungary, ISBN 978-606-569-312-8 / 978-615-5097, ISSN 1224-7928, 2011-11-12, 258, 263, the 7th INTERNATIONAL CONFERENCE ON INTEGRATED SYSTEMS FOR AGRI-FOOD PRODUCTION – SIPA'11
16. CALINOIU DELIA, **VETREȘ ION**, CERCELARU CRISTINA, TRIF TORDAI GAVRILA, CIOABLA ADRIAN EUGEN, ADVANTAGES OF REMOTE SENSING, AgroBuletin AGIR, B+, TIMISOARA, Romania, ISSN 2247-3548, 75, 78, BULETINUL AGIR, 2013
17. **Ioan Vetreș**, Ionel Ioana, Ioan Padureanu, Nicolae Lontis , Lidar system for investigation of atmospheric aerosols , Revista Metalurgia, B+, Bucuresti, Romania, ISSN 0461-9579, 22, 27, 2009
18. Laza I, Cioabla A E, **Vetreș I**, PNEUMATIC CONVEYING. DENSE PHASE CHARACTERISTICS AND TYPES., Buletinul Științific al Universității Politehnica Timișoara - seria Mecanică, Timisoara, Romania, ISSN 1224-6077, 151, 154, BULETINUL ȘTIINȚIFIC AL UNIVERSITĂȚII POLITEHNICA DIN TIMIȘOARA, 2008
19. Adrian Irimescu, Gelu Padure, Laurentiu Calin, Gavrilă Trif-Tordai, Nicolae Lontis, **Ion Vetreș**, Performance and emissions of a port injection spark ignition engine fuelled with gasoline-isobutanol blends, JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY, SCOPUS, Greece, ISSN 1311-5065, 1208, 1215, 2011
20. Catalin, NG; Ionel, I; Calinoiu, D; Vetreș, I, Air pollution monitoring in a town nearly power plant, ADVANCES IN BIOLOGY, BIOENGINEERING AND ENVIRONMENT, WORLD SCIENTIFIC AND

ENGINEERING ACAD AND SOC, Athens, ISBN 978-960-474-261-5, ISSN 1792-7412, DEC 29-31, 2010, 4 pag., 6th WSEAS International Conference on CELLULAR and MOLECULAR BIOLOGY, BIOPHYSICS and BIOENGINEERING/8th WSEAS International Conference on ENVIRONMENT, ECOSYSTEMS and DEVELOPMENT/International Conference on Bioscience and Bioinformatics, 2010, WOS:000300024800034

21. Cioabla Adrian, Ionel Ioana, Vetreș Ion, Wojcik M., Process parameters and characteristics for a cereal mixture during anaerobic fermentation. Comparative results with different biomass substrates, 20th European Biomass Conference and Exhibition, Milano, Italia, Milano, Italy, ISBN 978-88-89407-54-7, 2012, 1415, 1419, 20th European Biomass Conference and Exhibition, Milano, Italia
22. Cioabla Adrian, Ionel Ioana, Vetreș Ion, Experimental study related with the degradation effect over degraded barley during the anaerobic fermentation process , 19th European biomass conference and exhibition, Berlin, Germania, Berlin, Germany, ISBN 978-88-89407-55-4, 2011, 1730, 1734, 19th European biomass conference and exhibition
23. Cioabla A E, Ionel I, Lelea D, Vetreș I, Experimental study regarding the influence of the variation of the main parameters upon the quality of the biogas , Conferința "PROCESSING 2009", Belgrad, Serbia, Belgrad, Serbia, 2009
24. Calinoiu, DG, Trif-Tordai, G, Ioana, I, Vetreș Ion, SUN PHOTOMETER - REMOTE SENSING FOR BIOMASS BURNING AEROSOL ASSESSMENT, PAPERS OF THE 22ND EUROPEAN BIOMASS CONFERENCE: SETTING THE COURSE FOR A BIOBASED ECONOMY, Hamburg, GERMANY, iunie 2014

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E. Brevete obținute în întreaga activitate

1.

Data:

Semnătura:

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume: Lucian RUSU

Gradul didactic: conferentiar

Instituția unde este titular: Universitatea POLITEHNICA Timisoara

Facultatea: Mecanica

Departamentul: Mecanica si Rezistenta Materialelor

L I S T A**lucrărilor științifice în domeniul disciplinelor din postul didactic****A. Teza de doctorat**

Implante chirurgicale. Studii și cercetări în vederea omologării, Editura POLITEHNICA Timisoara, ISBN 973-625-375-9, 2006

B. Cărți si capitole în cărți publicate în ultimii 10 ani

1. Programare în matlab, Lucian RUSU, Editura Politehnica, ISBN 978-606-35-0520-1, 2023;
2. Informatică aplicată, Lucian RUSU, Editura Politehnica, ISBN 978-606-35-0535-5, 2023;
3. Tehnici si echipamente pentru imagistica medicala, Lucian RUSU, Editura Politehnica, ISBN 978-606-35-0537-9, 2023.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Vasiliu Roxana Diana; Utu Ion-Dragos; Rusu Lucian; Bolos Adrian; Porojan Liliana, *Fractographic and Microhardness Evaluation of All-Ceramic Hot-Pressed and CAD/CAM Restorations after Hydrothermal Aging*, MDPI – Materials, 2022;
2. Marsavina Liviu; Iacoviello Francesco; Pirvulescu Liviu Dan; Di Cocco Vittorio; Rusu Lucian, *Engineering prediction of fatigue strength for AM50 magnesium alloys*, INTERNATIONAL JOURNAL OF FATIGUE, 2019;
3. Stoia, Dan Ioan; Vigar, Cosmina; Rusu Lucian, *Relative and Absolute Angles Computed from Pathologic Gait Data*, ACOUSTICS AND VIBRATION OF MECHANICAL STRUCTURES (AVMS-2017), 14th International Conference on Acoustics and Vibration of Mechanical Structures (AVMS), 2018;
4. Porojan Liliana; Savencu Cristina; Bolos Adrian; Rusu Lucian; Porojan Sorin, *Mechanical approach of metal-ceramic crowns obtained with laser-based additive manufacturing methods*, SEVENTH INTERNATIONAL CONFERENCE ON LASERS IN MEDICINE, 7th Romanian-Society-for-Laser-in-Dentistry (SRLS) International Conference on Lasers in Medicine / 1st Congress of Laser in Dentistry, 2018;

5. Porojan Liliana; Porojan Sorin; Rusu Lucian; Bolos Adrian; Savencu Cristina, *Experimental Analyses for The Mechanical Behavior of Pressed All-Ceramic Molar Crowns with Anatomical Design*, 2017 INTERNATIONAL CONFERENCE ON MECHANICAL, AERONAUTICAL AND AUTOMOTIVE ENGINEERING (ICMAA 2017), International Conference on Mechanical, Aeronautical and Automotive Engineering (ICMAA), 2017;

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1. Neamțu Popescu, A., Rusu, L., Crăștiu, I., Pavăl, A., Bereteu, L., *Modeling and Simulation of Mechanical Behavior of Spinal Ligaments with Applications in Traction Therapy*, Springer Proceedings in Physics, 2021;
2. Șerban, D.A., Marsavina, L., Rusu, L., Negru, R., *Numerical study of the behavior of magnesium alloy AM50 in tensile and torsional loadings*, Archive of Applied Mechanics 89(5), 2019;

- Selecție cu maximum 20 lucrări în volume de conferințe

3. Porojan, L., Rusu, L., Bolos, A., Savencu, C., Porojan, S., *Fracture Behavior of Monolithic Hot-Pressed Posterior Ceramic Dental Crowns*, IOP Conference Series: Materials Science and Engineering 416(1), 2018;
4. Maxim, D.I., Marsavina, L., Rusu, L., *The Effect of Manufacturing on the Press fit Insertion Force*, IOP Conference Series: Materials Science and Engineering 416(1), 2018;
5. Porojan, L., Porojan, S., Rusu, L., Bolos, A., Savencu, C., Antoniac, A., Gradinaru, S., *Experimental evaluation of fracture pattern in bilayered all-ceramic molar crowns*, Defect and Diffusion Forum 376, 2017;
6. Rusu, L., Stoia, D.I., Vigar, C., *Simulation of the upper limb recovery exercises during physical therapy rehabilitation*, Key Engineering Materials KEM 752, 2017;
7. Stoia, D.I., Vigar, C., Rusu, L., Haragus, H., Damian, S., *Mechanical aspects of self-Alignment mechanism in hip bipolar hemiarthroplasty*, Key Engineering Materials KEM 752, 2017;

E. Brevete obținute în întreaga activitate

1.

Data: 17.06.2026

Semnătura:

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume: JURCA Maria - Laura

Gradul didactic: Asistent

Instituția unde este titular: UNIVERSITATEA POLITEHNICA TIMIȘOARA

Facultatea: MECANICĂ

Departamentul: MECANICĂ ȘI REZISTENȚA MATERIALELOR

L I S T A**lucrărilor științifice în domeniul disciplinelor din postul didactic****A. Teza de doctorat**

„Studiul analitic al sistemului dinamic al corzilor vocale umane”

Teză susținută la Universitatea Politehnica Timișoara, 15.11.2024

Conducător științific: prof.dr.ing. Nicolae Herişanu

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Galescu-Blidariu, M., Jurca, L., Stoia, D.I., Totorean, A.F., “Body Balance Modification During Virtual Reality Session with Applications in Education”, in: Herisanu, N., Marinca, V. (eds) Acoustics and Vibration of Mechanical Structures—AVMS-2025. AVMS 2025. Springer Proceedings in Physics, vol 345. Springer, Cham. https://doi.org/10.1007/978-3-032-10786-2_18
2. L. Jurca, C. Vigar, N. Herisanu, “Experimental investigation on acoustic parameters in speech analysis for patients with laryngeal disorders”, Romanian Journal of Acoustics and Vibration, Vol.21, No.2 (Dec. 2024), p.182–189.
3. L. Jurca, C. Vigar, C. Chilibaru-Opritescu, N. Herisanu “An analytical approach to a simple nonlinear model of vocal fold”, in American Institute of Physics Conference Series, 2023, vol. 2849, nr. 1., AIP Publishing.
4. L. Jurca, C. Vigar, “Jitter and Shimmer Parameters in the Identification of Vocal Tract Pathologies. Current State of Research”, in Herisanu, N., Marinca, V. (eds) Acoustics and Vibration of Mechanical Structures, AVMS - 2023. Springer Proceedings in Physics, vol 302, Springer Link.
5. L. Jurca, C. Vigar, C. Chilibaru-Opritescu, “Analytical investigation to biomechanical properties of a vocal fold model”, in American Institute of Physics Conference Series, 2022, vol. 2425, nr. 1., AIP Publishing.
6. 1. L. Jurca, C. Vigar, N. Herisanu, “An Analytical Investigation of the Human Vocal Fold Oscillation Using a Mucosal Wave Model”, INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2022, ICNAAM-2022, Volume 3094, WOS:001244923000138.

D. Lucrări publicate în ultimii 10 ani în reviste și volume de conferințe cu referenți (neindexate)**- Reviste**

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

1. „Verificarea paralelismului bonturilor dentare prin metoda directă”, Anca Pîrghie, Andrei Margetici, Laura Jurca, Zsombor Posta, Bianca Tonko, Meda-Lavinia Negruțiu, Cosmin Sinescu, Congresul Internațional de Medicină Dentară pentru studenți și tineri doctori DenTim (ediția a XI – a), 2017

E. Brevete obținute în întreaga activitate

1.

Data: 17.06.2026**Semnătura:**

E – Brevete (pentru întreaga activitate)

Instituția de învățământ superior: UNIVERSITATEA POLITEHNICA TIMIȘOARA

Facultatea: MECANICĂ

Domeniul de licență: INGINERIE INDUSTRIALĂ

Programul de studii de licență: TEHNOLOGIA CONSTRUCȚIILOR DE MAȘINI

Perioada evaluării: 2025-2026

TABEL PRIVIND INDEPLINIREA INDICATORULUI
Activitatea științifică în domeniul disciplinelor

„Cadrele didactice titulare* au pregătirea inițială, sunt doctori / doctoranzi și cercetează în domeniul în care se includ disciplinele din postul ocupat.”

Nr crt	Gradul didactic, numele și prenumele titularului vârsta / vechimea în învățământul superior	Disciplinele din cadrul programului de studii incluse în postul didactic și tipul activității desfășurate (curs, seminar, lucrări, proiect)	Competența cadrului didactic titular în disciplinele din postul didactic			Constatări privind îndeplinirea indicatorului conform Anexei 4.1
			Universitatea/facultatea/specializarea absolvită	Specializarea la masterat/doctorat	Numărul de cărți, numărul de lucrări științifice, numărul de brevete în domeniul disciplinelor din postul didactic (conform Anexelor 4.1.)	
0	1	2	3	4	5	6
1.	Prof. dr. ing. Titus SLAVICI 66 / 42	Toleranțe și control dimensional (curs)	Universitatea "Politehnica" din Timișoara / Facultatea de Mecanică	Doctorat în inginerie/ Doctorat în finanțe	teza (A); 23 cărți (B1 – B22); 28 lucrări indexate ISI/BDI	Îndeplinit
2						
3						
4						
6						

* Din statul de funcții cumulativ al tuturor disciplinelor și tuturor activităților didactice desfășurate în cadrul programului de studii evaluat.

Rector

Persoana de contact

A N E X A 4 . 1

Nume Prenume: Titus SLAVICI

Gradul didactic: Prof. dr. ing.

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: Facultatea de Mecanică

Departamentul: Ingineria Materialelor și Fabricației

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Optimizarea managementului financiar al întreprinderii cu ajutorul metodelor inteligenței artificiale.

B Cărți și capitole în cărți publicate în ultimii 10 anii

1. T.Slavici, Ș.Popa, K. Herman – „Limbafe de programare. Limbajul C,, Ed. Eurostampa, Timișoara 2007, ISBN: 978-973-687-608-0
2. T.Slavici – „Inteligența artificială – Elemente fundamentale și aplicații în domeniul economic și tehnic”, 2006, Ed. Eurostampa, ISBN: 973-687-375-7
3. T.Slavici – “Aplicații ale inteligenței artificiale în domeniile economic și tehnic”, 2007, Ed. Mirton, ISBN: 978-973-52-0211-8
4. T.Slavici, I.Groza,D.Gubencu, A.V.Mnerie, G.V. Mnerie, A.Han, L. Dorneanu, V. Bivolaru, A. Körösi – „Fundamentele utilizării calculatoarelor”, 2007, Ed. Eurostampa, ISBN: 978-973-687-625-7
5. D.Darvasi, L. Dorneanu, A. Bădescu, M. Untaru, T. Slavici – “Sisteme expert și rețele neuronale în economie și tehnică”, 2010, Ed. Eurostampa, ISBN: 978-606-569-202-2
6. I.R.Stanciu, A.Bebeșelea, A.V.Mnerie, M.Krepelka, I.Groza, V.Kurti, A.Korosi, G.V.Mnerie, L.Dorneanu, Titus Slavici – „Utilizarea calculatoarelor în mediul economic”, 2013, Ed.Eurostampa, ISBN: 978-606-569-534-4
7. I.Ștefan, A.Bebeșelea, Titus Slavici – „Finanțele publice și fiscalitatea României”, 2013, Ed. Eurostampa, ISBN: 978-606-569-528-3
8. A.Bebeșelea, Titus Slavici, A.Simulescu, L.Cernescu – „Monedă și credit Economie monetară și financiară”, 2012, Ed.Eurostampa, ISBN: 978-606-8480-07-7
9. A.Bebeșelea, Titus Slavici, D.Albu – „Relații monetare și financiare internaționale Buget și trezorerie publică”, 2012, Ed.Eurostampa, ISBN: 978-606-8480-06-0
10. L.Herman, T.Slavici – „Tehnici de programare clasice și orientate pe obiecte”, 2013, Ed. Mirton, ISBN: 978-973-52-1319-0, Ed. FIS ISBN:978-606-8480-14-5

11. S.Mariș, G .V. Mnerie, L.Dorneanu, D.Mnerie, C.Saizescu, N.Ularu, T. Slavici – Elemente de algebră, analiză matematică și matematici discrete, Editura Eurostampa si Editura Fundației pentru Cultură și Învățământ „Ioan Slavici”, Timișoara 2015 –ISBN: 978-606-569-970-0, ISBN: 978-606-8480-31-2.
12. Simina Mariș, Nicoleta Ularu, Mihai Benga, Titus Slavici – Programare logică și inteligență artificială, 978-606-32-0096-0, 2015. *Coeditare cu Fundația Ioan Slavici, Timișoara*, ISBN: 978-606-8480-26-8
13. Nicoleta Ularu, Andreea Bozeșan, Cristian Coșariu, Liviu Herman, Mihai Adrian, Mircea Baba, Titus Slavici –Ingineria programării și limbaje de programare. Notițe de curs, teme de laborator și proiect, 978-606-32-0106-6, 2015. *Coeditare cu Fundația Ioan Slavici, Timișoara*, ISBN: 978-606-8480-36-7
14. Titus Slavici, A.Reviczky-Levay, D.Gubencu, A.Mnerie – „Comanda și controlul sistemelor tehnologice cu calculatorul. Metode CAD/CAM” – 2006, Ed. Fundației „Ioan Slavici” ,ISBN: 973-8093-35-X
15. I.Groza, D.Gubencu, A. Mnerie, K.Herman, A. Han, L. Dorneanu, V. Bivolaru, A Körösi, T. Slavici – “Calculatoare personale – Introducere în utilizare”, Ed. “IOAN SLAVICI”, 2006, ISBN: 973-687-158-4
16. A.Reviczky-Levay, T. Slavici, D.Gubencu – „Comanda și controlul sistemelor tehnologice cu calculatorul. Metode CAD/CAM” Ed. Fundației „Ioan Slavici” Timișoara 2006, ISBN: 973-8093-35-X
17. T. Slavici, Ș. Popa, K. Hermann – “Limbaje de programare – Tehnici de laborator și proiect”, Ed. Fundației „Ioan Slavici” Timișoara 2009, ISBN: 978-973-88962-3-9
18. D. Gubencu, A. Reviczky-Levay, A. Mnerie, T.Slavici – “Procese tehnologice asistate de calculator”, Ed. Fundației „Ioan Slavici” Timișoara 2009, ISBN: 978-973-88962-1-5
19. A. Reviczky, T.Slavici, D. Gubencu – “Comanda și controlul sistemelor tehnologice cu calculatorul. Metode CAD/CAM”, Ed. Fundației “IOAN SLAVICI” Timișoara 2004, ISBN: 973-8093-35-X
20. F.Molnar-Matei, A.Bebeșelea, A.V. Mnerie, M. Krepelka, I.Groza, V.Kürti, A.Körösi, G.V.Mnerie, L.Dorneanu, T. Slavici – “Utilizarea și programarea calculatoarelor”, Ed. “Ioan Slavici”, 2008, ISBN : 978-973-88962-0-8
21. F.Molnar-Matei, A.Bebeșelea, A.V. Mnerie, M. Krepelka, I.Groza, V.Kürti, A.Körösi, G.V.Mnerie, L.Dorneanu, T. Slavici – “Utilizarea și programarea calculatoarelor”, Ed. “Ioan Slavici”, 2008, ISBN: 978-973-88962-0-8
22. Ioan Groza, Titus Slavici, Cojocariu Cristian, Mădean Andrei - “ACHIZIȚIA DATELOR TRANSMISE DE INSTRUMENTE DE MĂSURARE DIGITALE “Material suport realizat în cadrul proiectului: Echipamente flexibile și modulare de conducere numerică a proceselor tehnologice, cu aplicații în realizarea echipamentelor didactice și a echipamentelor pentru prelucrarea materialelor și nanotehnologii, Editura Fundației Ioan Slavici, Timișoara, 2010 ISBN: 978-606-92306-6-4
23. Slavici Titus, Gubencu Dinu – “TEHNICI MODERNE DE UTILIZARE A COMENZII NUMERICE ASISTATE DE CALCULATOR PENTRU OPTIMIZAREA PRELUCRĂRII

MATERIALELOR” - Material suport realizat în cadrul proiectului: Echipamente flexibile și modulare de conducere numerică a proceselor tehnologice, cu aplicații în realizarea echipamentelor didactice și a echipamentelor pentru prelucrarea materialelor și nanotehnologii, ID PROIECT 2.3.1, Editura Fundației Ioan Slavici, Timișoara, 2010 , ISBN 978-606-92306-6-4.

C Lucrări indexate ISI/BDI publicate în ultimii 10 anii

ISI

1. Segneanu, AE; Bandas, C; Grozescu, I; Czipile, F; Slavici, T; Sfirloaga, P., Hybrid materials for the removal of organic compounds from water, *Environmental Engineering and Management Journal*, vol.12(5), pag. 1071-1077, 2013.
2. Slavici, T; Darvasi, D; Mnerie, A., Cechin-Crista, P., Development of Economical and Efficient Mixed Reactive Carbonates for Peptide Synthesis through Scientific Planning, *Revista de Chimie*, vol. 64 (4), pag. 425-429, 2013.
3. Slavici, T., Almajan, B., Artificial intelligence techniques: an efficient new approach to challenge the assessment of complex clinical fields such as airway clearance techniques in patients with cystic fibrosis, *JOURNAL OF REHABILITATION MEDICINE*, vol. 45 (4), pag. 397-402, 2013.
4. Macarie, C.; Bebeselea, A.; Balcu, I.; Slavici, T.; Darvasi, D.; Segneanu, A., Aspects Regarding the Economic Study of the Bioethanol obtained by Development of a New Environmentally Friendly Pretreated Method, *Revista de Chimie*, vol. 64(3), 2013.
5. Slavici, T.; Avram, C.; Mnerie, GV; Badescu, A.; Darvasi, D.; Molnar F.; Ungureanu, MA; Economic efficiency of primary care for CVD prevention and treatment in Eastern European countries, *BMC HEALTH SERVICES RESEARCH*, vol. 13 (75), 2013.
6. Slavici, T.; Mnerie, D.; Some applications of artificial neural networks in agricultural management, *AKTUALNI ZADACI MEHANIZACIJE POLJOPRIVREDE*, Book Series Title: Actual Tasks on Agricultural Engineering-Zagreb, vol. 40, pag. 363-373, 2012.
7. Darvasi, D (Darvasi, Doina); Badescu, A (Badescu, Adriana); Dobritoiu, C (Dobritoiu, Constantin); Molnar, F (Molnar, Florin); Slavici, T (Slavici, Titus), Accounting software using expert systems, *RECENT ADVANCES IN BUSINESS ADMINISTRATION*, Book Series Title: International Conference on Business Administration-Proceedings, pag. 97-102, 2011.
8. Tucu, D (Tucu, Dumitru); Golimba, AG (Golimba, Antonio-Gabriel); Slavici, T (Slavici, Titus), *FUZZY METHODS IN RENEWABLE ENERGY OPTIMIZATION INVESTMENTS, ACTUAL TASKS ON AGRICULTURAL ENGINEERING, PROCEEDINGS*, Book Series Title: Actual Tasks on Agricultural Engineering-Zagreb, vol. 38, pag. 455-462, 2010.
9. Borlea, I (Borlea, Ioan); Vuc, G (Vuc, Gheorghe); Jigoria-Oprea, D (Jigoria-Oprea, Dan); Kilyeni, A (Kilyeni, Annamaria); Barbulescu, C (Barbulescu, Constantin); Slavici, T (Slavici, Titus), A Rule-Based Expert System for Steady State Diagnosis of Electrical Distribution Networks, *MELECON 2010: THE 15TH IEEE MEDITERRANEAN ELECTROTECHNICAL*

- CONFERENCE, Book Series Title: IEEE Mediterranean Electrotechnical Conference-MELECON, pag. 142-147, 2010.
10. Kilyeni, S (Kilyeni, Stefan); Pop, O (Pop, Oana); Slavici, T (Slavici, Titus); Craciun, C (Craciun, Cristian); Andea, P (Andea, Petru); Mnerie, D (Mnerie, Dumitru), Transmission Cost Allocation Using the Distribution Factors Method, MELECON 2010: THE 15TH IEEE MEDITERRANEAN ELECTROTECHNICAL CONFERENCE, Book Series Title: IEEE Mediterranean Electrotechnical Conference-MELECON, pag. 1093-1098, 2010.
 11. Popa, M (Popa, Mircea); Slavici, T (Slavici, Titus), EMBEDDED SERVER WITH WAKE ON LAN FUNCTION, EUROCON 2009: INTERNATIONAL IEEE CONFERENCE DEVOTED TO THE 150 ANNIVERSARY OF ALEXANDER S. POPOV, VOLS 1- 4, PROCEEDINGS, pag. 365-370, 2009.
 12. Mnerie, D (Mnerie, Dumitru); Tucu, D (Tucu, Dumitru); Anghel, GV (Anghel, Gabriela Victoria); Slavici, T (Slavici, Titus), Study about integration capacity of systems for agro-food production, ACTUAL TASKS ON AGRICULTURAL ENGINEERING, Book Series Title: Actual Tasks on Agricultural Engineering-Zagreb, vol.36, pag. 617-622, 2008.
 13. Popa, M (Popa, Mircea); Popa, AS (Popa, Anca Sorana); Slavici, T (Slavici, Titus); Silaghe, L (Silaghe, Liviu), On the implementation of the OSEK/VDX operating system on advanced microcontrollers, EUROCON 2007: THE INTERNATIONAL CONFERENCE ON COMPUTER AS A TOOL, VOLS 1-6, Conference Title: International Conference on Computer as a Tool (EUROCON 2007), pag. 1001-1008, 2007.

BDI

1. Mihai-Emanuel Basch, David-George Cristea, Virgil Tiponut, Titus Slavici – “Computer Aided Decision in Cataract Surgery” 192-196 LATEST TRENDS on SYSTEMS (Volume II) 14th WSEAS International Conference on SYSTEMS (Part of the 14th WSEAS CSCC Multiconference) (Volume II) Corfu Island, Greece, July 22-24, 2010, Indexed ACM
2. Zoltan Haraszy, Sebastian Micut, Virgil Tiponut, Titus Slavici – “An Adaptive Control Strategy for a Five-Fingered Prosthetic Hand” 399-405 LATEST TRENDS on SYSTEMS (Volume II) 14th WSEAS International
3. Zoltan Haraszy, David-George Cristea, Virgil Tiponut, Titus Slavici – “On Designing an Experimental Navigation System” 411-417 LATEST TRENDS on SYSTEMS (Volume II) 14th WSEAS International Conference on SYSTEMS (Part of the 14th WSEAS CSCC Multiconference) (Volume II) Corfu Island, Greece, July 22-24, 2010, Indexed ACM
4. Calin Jebelean, Ciprian-Bogdan Chirila, Titus Slavici, Vladimir Cretu – “Face Detection Using a Dual Cross-Validation of Chrominance/Luminance Channel Decisions and Decorrelation of the Color Space” 385-391 LATEST TRENDS on SYSTEMS (Volume II) 14th WSEAS International Conference on SYSTEMS (Part of the 14th WSEAS CSCC Multiconference) (Volume II) Corfu Island, Greece, July 22-24, 2010, Indexed ACM
5. Titus Slavici, Dumitru Mnerie, Liviu Hermann, Gheorghe Catalin Crisan – “Optimization of University Costs using Artificial Neural Networks“, Recent Researches in Sociology, Financing, Environment and Health Sciences“ ISBN: 978-960-474-287-5 10, p 200-205, 5th

- WSEAS International Conference on MANAGEMENT, MARKETING and FINANCES (MMF, 11), Playa Meloneras, Gran Canaria, Canary Islands, Spain, March 24-26, 2011 ,ISBN: 978-960-474-287-5,ISSN: 2221-9641 Published by WSEAS Press ISSN: 2221-9668, www.wseas.org ISSN: 2221-9684, Indexed EBSCO, SCOPUS
6. Liliana Dorneanu, Adriana Bebeselea, Alin Mnerie, Titus Slavici, Dumitru Mnerie – “A Study of Consumer Preferences for E-Retailers’ Attributes: An Application of Conjoint Analysis”, p. 205-210, Recent Researches in Sociology, Financing, Environment and Health Sciences ISBN: 978-960-474-287-5 10, 5th WSEAS International Conference on MANAGEMENT, MARKETING and FINANCES (MMF ,11), Playa Meloneras, Gran Canaria, Canary Islands ,Spain, March 24-26, 2011 ,ISBN: 978-960-474-287-5,ISSN: 2221-9641 Published by WSEAS Press ISSN: 2221-9668 ,www.wseas.org ISSN: 2221-9684 Indexed EBSCO, SCOPUS
 7. Liliana Dorneanu, Adriana Bebeselea, Alin Mnerie, Titus Slavici, Dumitru Mnerie – “A Study of Consumer Preferences for E-Retailers’ Attributes: An Application of Conjoint Analysis”, p. 205-210, Recent Researches in Sociology, Financing, Environment and Health Sciences ISBN: 978-960-474-287-5 10, 5th WSEAS International Conference on MANAGEMENT, MARKETING and FINANCES (MMF ,11), Playa Meloneras, Gran Canaria, Canary Islands ,Spain, March 24-26, 2011 ,ISBN: 978-960-474-287-5,ISSN: 2221-9641 Published by WSEAS Press ISSN: 2221-9668 ,www.wseas.org ISSN: 2221-9684 Indexed EBSCO, SCOPUS
 8. Dumitru Mnerie, Titus Slavici, George Catalin Crisan, Liviu Herman, Mircea Untaru – “Public Knowledge Base System for Public eProcurement: A Conceptual Model”, Recent Researches in Sociology, Financing, Environment and Health Sciences ISBN: 978-960-474-287-5 10, p 247-251, 5th WSEAS International Conference on MANAGEMENT, MARKETING and FINANCES (MMF ,11), Playa Meloneras, Gran Canaria, Canary Islands, Spain, March 24-26, 2011 ,ISBN: 978-960-474-287-5,ISSN: 2221-9641 Published by WSEAS Press ISSN: 2221-9668, www.wseas.org ISSN: 2221-9684, Indexed EBSCO, SCOPUS
 9. Titus Slavici, Dorel Andras, Doina Darvasi, Liliana Dorneanu, Adriana Badescu – “Risk In Microfinance Credit – Case Study for Romania, Bulgaria and Moldova”, Recent Researches in Sociology, Financing, Environment and Health Sciences ISBN: 978-960-474-287-5 10, p 327-333, 5th WSEAS International Conference on MANAGEMENT, MARKETING and FINANCES (MMF, 11), Playa Meloneras, Gran Canaria, Canary Islands ,Spain, March 24-26, 2011, ISBN: 978-960-474-287-5, ISSN: 2221-9641 Published by WSEAS Press ISSN: 2221-9668, www.wseas.org ISSN: 2221-9684, Indexed EBSCO, SCOPUS
 10. Teodora Dogaru, Mircea Untaru, Titus Slavici, Adriana Bebeselea, Tiberiu Ciobanu, Alexandra Dogaru, Adriana Badescu – “Nanobiotechnology for Improving Transdermal Drug Delivery”, Recent Researches in Sociology, Financing, Environment and Health Sciences ISBN: 978-960-474-287-5 10 p. 344-350, 5th WSEAS International Conference on MANAGEMENT, MARKETING and FINANCES (MMF, 11), Playa Meloneras, Gran Canaria, Canary Islands ,Spain, March 24-26, 2011, ISBN: 978-960-474-287-5,ISSN: 2221-9641 Published by WSEAS Press ISSN: 2221-9668, www.wseas.org ISSN: 2221-9684, Indexed EBSCO, SCOPUS

11. Alin Vasile MNERIE, Titus SLAVICI, Gabriela Victoria ANGHEL, Dumitru ȚUCU, Dumitru MNERIE – „THE CONTROL OF THE ELECTRICAL EROSION PROCESSING WITH WIRE ELECTRODE FOR PROCESSED PARTS QUALITY INCREASING” Nr.3/2007 Revista ARTN , ISSN 2359 – 8646; ISSN-L 2359 – 8646; On-line: ISSN 2359 – 8654; ISSN-L 2359 – 8646, indexat COPERNICUS CNCSIS B+ si Pro Quest
12. Titus SLAVICI, Virgil TIPONUȚ, Alin-Vasile MNERIE, Dumitru MNERIE - „MODULAR STRUCTURES OF NUMERICAL MANAGEMENT OF PROCESSES FOR THE PROCESSING OF MATERIALS AND NANOTECHNOLOGIES” Nr1/2009, Revista ARTN, ISSN 2359 – 8646; ISSN-L 2359 – 8646; On-line: ISSN 2359 – 8654; ISSN-L 2359 – 8646, indexat COPERNICUS CNCSIS B+ și Pro Quest
13. Alin MNERIE, Aurel NANU, Dumitru MNERIE, Titus SLAVICI – „SOME ASPECTS OF AUTOMATED ELECTRICAL EROSION MACHINE WITH WIRE ELECTRODE”, Nr1/2009 Revista ARTN, ISSN 2359 – 8646; ISSN-L 2359 – 8646; On-line: ISSN 2359 – 8654; ISSN-L 2359 – 8646, indexat COPERNICUS CNCSIS B+ și Pro Quest
14. Dumitru Mnerie, Dumitru Tucu, Titus Slavici – „Aspectele managementului calitatii în structurile educationale private din domeniul tehnic”, Buletinul Agir, ISSN-L 1224-7928, Online: ISSN 2247-3548, indexat BDI: INDEX COPERNICUS INTERNATIONAL, ACADEMIC KEYS, getCITED
15. Aurel Nanu, Titus Slavici, Alin Vasile Mnerie – „Rolul automatizarii în sporirea calitatii prelucrarilor pe utilaje destinate aplicarii tehnologiilor neconventionale” Buletinul AGIR, ISSN-L 1224-7928, Online: ISSN 2247-3548, BDI: INDEX COPERNICUS INTERNATIONAL, ACADEMIC KEYS, getCITED

D Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E. Brevete obținute în întreaga activitate

1.

Data: 12.06.2026

Semnătura:

A N E X A 4 . 1

Nume Prenume: Lovasz Erwin-Christian

Gradul didactic: Profesor universitar

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: Mecanică

Departamentul: Mecatronică

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat**B. Cărți și capitole în cărți publicate în ultimii 10 ani**

1. Erwin-Chr. Lovasz, Corneliu Rădulescu – Roboți de prestări de servicii (Sevice Robotics), Editura Politehnica, Vol.1, 2015, 255 pages, ISBN 978-606-35-0033-6.
2. Erwin-Chr. Lovasz, Corneliu Rădulescu, Cristian Moldovan – Roboți de prestări de servicii (Sevice Robotics), Editura Politehnica, Vol.2, 2018, 315 pages, ISBN 978-606-35-0032-9.
3. Erwin-Chr. Lovasz, Corneliu Rădulescu, Cristian Moldovan – Roboți de prestări de servicii (Sevice Robotics), Editura Politehnica, Vol.3, 2019, 210 pages, ISBN 978-606-35-0303-0.
4. Dan Teodor Mărgineanu, Erwin-Chr. Lovasz, Dorel Buncianu – Mecanisme și organe de mașini (Mechanisms and Machine Parts), 2021, 160 pages, ISBN 9786063504358.
5. Burkhard Corves, Erwin-Chr. Lovasz, Mathias Hüsing (Editors) - Mechanisms, Transmissions and Applications, Proceedings of the Third MeTrApp Conference 2015, Series: Mechanisms and Machine Science, Vol.31, Springer International Publishing, 2015, 352 pages, ISBN 978-3-319-17066-4.
6. Lena Zentner, Burkhard Corves, Brian Jensen, Erwin-Chr. Lovasz (Editors) - Microactuators and Micromechanisms, Proceedings of MAMM 2016, Series: Mechanisms and Machine Science, Vol. 45, Springer International Publishing, 2017, 261 pages, ISBN 978-3-319-45386-6
7. Burkhard Corves, Erwin-Chr. Lovasz, Mathias Hüsing, Inocențiu Maniu, Corina Gruescu (Editors) – New Advance in Mechanisms, Mechanical Transmissions and Robotics, Proceedings of the Joint International Conference of the XII International Conference on Mechanisms and Mechanical Transmissions (MTM) and the XXIII International Conference on Robotics (Robotics'16), 2017, Series: Mechanisms and Machine Science, Vol.46, Springer International Publishing, 2017, 497 pages, ISBN 978-3-319-45449-8.
8. Mehmet Ismet Can Dede, Mehmet Itik, Lovasz Erwin-Christian., Kiper Gökan (Editors) - Mechanisms, Transmissions and Applications, Proceedings of the Fourth MeTrApp Conference 2017, Series: Mechanisms and Machine Science, Vol.52, Springer International Publishing, 2018, 288 pages, ISBN 978-3-319-60701-6.

9. Ioan Doroftei, Cezar Opreșan, Doina Pislă, Erwin-Chr. Lovasz (Editors) - New Advances in Mechanism and Machine Science, 2020, Proceedings of The 12th IFToMM International Symposium on Science of Mechanisms and Machines (SYROM 2017), Series: Mechanisms and Machine Science, Vol.57, Springer International Publishing, 2018, 534 pages, ISBN 978-3-319-79110-4.
10. Erwin-Chr. Lovasz, Inocențiu Maniu, Ioan Doroftei, Mircea Ivanescu, Corina-Mihaela Gruescu (Editors) – New Advance in Mechanisms, Mechanical Transmissions and Robotics, Proceedings of the Joint International Conference of the XII International Conference on Mechanisms and Mechanical Transmissions (MTM) and the XXIII International Conference on Robotics (MTM&Robotics 2020), 2020, Series: Mechanisms and Machine Science, Vol.88, Springer International Publishing, 2021, 569 pages, ISBN 978-3-030-60075-4.
11. Ioan Doroftei, Mircea Nitulescu, Doina Pislă, Erwin-Christian Lovasz (Editors) - Proceedings of SYROM 2022 & ROBOTICS 2022: 13th IFToMM International Symposium on Science of Mechanisms and Machines & XXV International Conference on Robotics, 2022, Series: Mechanisms and Machine Science, Vol.127, Springer International Publishing, 2023, 364 pages, ISBN 978-3-031-25654-7.
12. Erwin-Chr. Lovasz, Marco Ceccarelli, Valentin Ciupe (Editors) – Proceedings of the 6th Symposium on Mechanism Design for Robotics (MEDER) Timișoara, 27-29.06.2024, Book Series: Mechanisms and Machine Science, Mechanism Design for Robotics, MEDER 2024, Vol. 166, (2024), ISBN 978-3-031-67385-5.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Lucrări ISI publicate

1. Gruescu, C.M., Garaiman, A., Lovasz, E.-C.: Modeling of human spinal column and simulation of spinal deformities, *Mechanika*, 3, (2015), 214-219, IF=0,277 (Q4-2015)
2. Hanke, U., Lovasz, E.-C., Zichner, M., Modler, N., Comsa, A., Modler, K.-H.: Synthesis of PR-/RP-chain-based compliant mechanisms - design of applications exploiting fibre reinforced material characteristics, *Mechanical Sciences*, 6(2), (2015), 155-161, IF=1.200 (Q2-2015).
3. Lovasz E.-C., Modler K.-H., Neumann R., Gruescu C.M., Perju D., Ciupe V., Maniu I.: Novel design solutions for fishing reel mechanisms, *Chinese Journal of Mechanical Engineering* 28 (4), 2015, 726-736, IF=0,531 (Q4-2015).
4. Modler, N., Winkler, A., Filippatos, A., Lovasz, E.-C., Mărgineanu, D.-T.: Simulation and experimental investigation of active lightweight compliant mechanisms with integrated piezoceramic actuators, *Smart Materials and Structures*, 25(8), (2016), 085047, IF=2,769 (Q1-2016).
5. Lovasz, E.-C., Mărgineanu, D.T., Ciupe, V., Maniu, I. Gruescu, C.M., Zabava, E.S., Stan, S.D.: Design and control solutions for haptic elbow exoskeleton module used in space telerobotics, *Mechanism and Machine Theory*, 107, (2017), 384-398, IF=1,689 (Q1-2017).
6. Lovasz, E.-C., Modler, K.-H., Pop, C., Pop, F., Mărgineanu D.T., Maniu, I.: Type Synthesis and Analysis of Geared Linkages with Linear Actuation, *Mechanika*, 24(1), (2018), 108-114, IF=0,529 (Q4-2017).
7. Vutan A.-M., Lovasz E.-C., Gruescu, C.M., Sticlaru, C., Sîrbu, E., Jurjiu, N., Boroșan, I.S., Vutan, C.: Evaluation of Symmetrical Exercises in Scoliosis by Using Thermal Scanning, *Applied Science Basel*, 12(2), (2022), 721. IF=2.679 (Q2-2021).

8. Florescu F., Popescu I.E., Moldovan C.E., Lovasz E.C.: Measuring the Latency, over 4G LTE, for a Teleoperated Robot using Commercial Remote Desktop Software, *Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering*, 65(2), (2022), 273-278. IF=0.07 (Q4-2021)
9. Luputi A.-M.-F., Lovasz E.-C., Ceccarelli M., Sticlaru C., Scurt A.-M.: Kinematic Study of Feasibility of Geared Planar Parallel Manipulator, *Proceedings of the Institution of Mechanical Engineers Part C- Journal of Mechanical Engineering Science*, 236(18), (2022), 10001-10016. IF=1.758 (Q3-2021)
10. Demjen T., Lovasz E.-C., Ceccarelli M., Sticlaru C., Luputi A.-M.-F., Oarca A., Silaghi-Perju D.-C.: Design of the five-bar linkage with singularity-free workspace, *Robotica*, 41(11), (2023), 3361-3379. IF=2.7 (Q3-2022)
10. Tulcan E.-G., Sticlaru C., Oarca A., Sandu M.O., Crăciun N.-G., Lovasz E.-C.: Feasibility Study of the Seven-Bar Linkage 7-PR(RRRR)RP Used for Medical Disinfection Robot, *Robotics*, Vol. 13, Issue 12, No. 177, 2024, IF= 2.9 (Q2-2023).
11. Lovasz E.-C., Ciupe V., Demjen T., Oarca A., Tulcan E.-G., Sandu M.O.: Optimal Synthesis of Five-Bar Linkage Based on Singularity-Free Workspaces with Predefined Shapes, *Robotics*, Vol. 13, Issue 12, No. 173, 2024, IF= 2.9 (Q2-2023).
12. Crăciun N.-G., Tulcan E.-G., Ciapa C., Oarca A., Lovasz E.-C.: Wrist Exoskeleton Actuated by a 2-RRU-U Parallel Manipulator, *Machines*, Vol. 12, Issue 12, No. 945, 2024, IF= 2.1 (Q2-2023).
13. Buncianu D., Lungulescu E.M., Caramitu A., Marinescu V., Marșavină L., Lovasz E.-C.: Synthesis and Characterization of Acrylic Resin/Kaolin Composites for Dielectric Applications, *Polymers*, Vol. 16, Issue 23, No. 3376, 2024, IF= 4.7 (Q1-2023).
14. Tulcan E.-G., Sticlaru C., Sandu M.O., Lovasz E.-C.: Comparative Analysis of the 4-RMP Four-Bar Linkage And The 7-PR(RRRR)RP Seven-Bar Linkage For The Design of a Medical Disinfection Robot with Folding Mechanism, *Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering*, 68(1-2), 295-300, 2025 ISSN 1221-5872, IF= 0.2 (Q4-2025).
15. Ceccarelli M, Lovasz E.-C.: Selected Papers from MEDER 2024: Advances of Mechanism Design for Robotic Machines, *Machines*, Vol. 13, Issue 3, No. 208, 2025, IF= 2.1 (Q2-2023).
16. Ciupe V., Lovasz E.-C., Kristof R., Sandu M.O., Sticlaru C.: Design, Simulation and Experimental Validation of a Pneumatic Actuation Method for Automating Manual Pipetting Devices, *Robotics*, Vol. 13, Issue 5, No. 389, 2025, IF= 2.9 (Q2-2023).
17. Mateaș M.C., Zăbavă E.-S. - 3 DoF Haptic Exoskeleton for Space Telerobotic, 3rd Conference of the Mechanisms Transmissions and Applications, 2015, Series: Mechanisms and Machine Science, Springer International Publishing, 31, (2015), 279-287, ISSN 2211-0984
18. Mărgineanu D., Lovasz E.-C., Modler N. - Multibody System Simulation of Hysteresis Effect by Micro Textile-Reinforced Compliant Mechanisms with Piezo-electric Actuators, The 3-rd Conference on Microactuators and Micromechanisms, Springer Series Mechanisms and Machine Science, Springer International Publishing, 30, (2015), 177-189, ISSN 2211-0984
19. Mărgineanu D., Lovasz E.-C., Modler K.H., Gruescu C.M. - Steering and Non-steering Crawling Tetrahedral Micro-mechanisms, The 3-rd Conference on Microactuators and Micromechanisms, Springer Series Mechanisms and Machine Science, Springer International Publishing, 30, (2015), 09-22, ISSN 2211-0984

20. Lovasz E.-C., Grigorescu S.M., Mărgineanu D.T., Gruescu C.M., Pop C., Ciupe V., Maniu I. - Geared Linkages with Linear Actuation Used as Kinematic Chains of a Planar Parallel Manipulator, 3rd Conference of the Mechanisms Transmissions and Applications, 2015, Series: Mechanisms and Machine Science, Springer International Publishing, 31, (2015), 21-31, ISSN 2211-0984
21. Ciupe V., Lovasz E.-C., Gruescu C.-M., Margineanu D.T., Maniu I. - Testing the haptic exoskeleton actuators in a virtual environment, 14th International Federation for the Promotion of Mechanism and Machine Science World Congress, IFToMM 2015, 127160. (2015), ISBN 978-986046098-8
22. Moldovan C.E., Lovasz E.-C., Perju D., Modler K.-H., Maniu, I. - On the kinematic analysis of the fourth class mechanisms, 14th International Federation for the Promotion of Mechanism and Machine Science World Congress, IFToMM 2015, 127160. (2015), ISBN 978-986046098-8
23. Pop C., Pop F., Lovasz E.-C., Davidescu A., Grigorescu S.M., Cărăbaș, I. - Image processing and artificial neural network for cam identification, 14th International Federation for the Promotion of Mechanism and Machine Science World Congress, IFToMM 2015, 127160. (2015), ISBN 978-986046098-8
24. Mărgineanu D.T., Lovasz E.-C., Ciupe V., Gruescu C., Modler K.-H.: Tetrahedral Mechanism Crawling on a Slope, 14th International Federation for the Promotion of Mechanism and Machine Science World Congress, IFToMM 2015, 127160. (2015), ISBN 978-986046098-8
25. Lovasz E.-C., Pop C., Grigorescu S.M., Gruescu C., Mărgineanu D.T., Maniu I. - Kinematics of the planar parallel manipulator using geared linkages with linear actuation as kinematic chains 3-R(RPRGR)RR, 14th International Federation for the Promotion of Mechanism and Machine Science World Congress, IFToMM 2015, 127160. (2015), ISBN 978-986046098-8
26. Lovasz E.C., Perju D., Modler K.-H., Gruescu C., Mărgineanu D., Moldovan C.E., Pop C. - Path Generating Belt Mechanisms as Kinematic Chains for Mechatronic Applications, 5th European Conference on Mechanism Science (EUCOMES), Series: Mechanisms and Machine Science, Springer International Publishing, 24, (2015), 111-119, ISSN 2211-0984
27. Hanke U., Lovasz E.-C., Zichner M., Modler N., Comșa A., Modler K.-H. - Synthesis of PR-/RP-chain-based compliant mechanisms - design of applications exploiting fibre reinforced material characteristics, 5th European Conference on Mechanism Science (EUCOMES), Series: Mechanisms and Machine Science, Springer International Publishing, 24, (2015), 743-751, ISSN 2211-0984
28. Pop F., Lovasz E.-C., Pop C., Dolga V. - Dimensional synthesis of a leg mechanism, 7th International Conference on Advanced Concepts in Mechanical Engineering, IOP Conference Series-Materials Science and Engineering, 147, (2016), 012083, ISSN1757-8981
29. Stoian A.M., Maniu I., Lovasz E.-C., Grigorescu S.M. - Design Solutions to Simplify the Calibration of a Robotic Flexible Manufacturing System, Proceedings of the Joint International Conference of the XII International Conference on Mechanisms and Mechanical Transmissions (MTM) and the XXIII International Conference on Robotics (Robotics'16), 2017, Series: Mechanisms and Machine Science, Springer International Publishing, 46, (2017), 229-238, ISSN 2211-0984.
30. Pop F., Lovasz E.-C., Pop C., Dolga V., Grigorescu S.M. - Trajectory Analysis for Modified Jansen Leg Mechanism Configuration, Proceedings of the Joint International Conference of the XII International Conference on Mechanisms and Mechanical Transmissions (MTM) and the XXIII International

Conference on Robotics (Robotics'16), 2017, Series: Mechanisms and Machine Science, Springer International Publishing, 46, (2017), 409-414, ISSN 2211-0984.

31. Pop C., Lovasz E.-C., Pop F., Davidescu A., Grigorescu S.M. - Matlab GUI for SVAJ Cam Analysis Diagrams, Proceedings of the Joint International Conference of the XII International Conference on Mechanisms and Mechanical Transmissions (MTM) and the XXIII International Conference on Robotics (Robotics'16), 2017, Series: Mechanisms and Machine Science, Springer International Publishing, 46, (2017), 37-45, ISSN 2211-0984.

32. Moldovan C.E., Perju D., Lovasz E.-C., Modler K.-H., Maniu I. - On the Kinematic Analysis of a Sixth Class Mechanism, Proceedings of the Joint International Conference of the XII International Conference on Mechanisms and Mechanical Transmissions (MTM) and the XXIII International Conference on Robotics (Robotics'16), 2017, Series: Mechanisms and Machine Science, Springer International Publishing, 46, (2017), 47-57, ISSN 2211-0984.

33. Modler, N., Winkler, A., Filippatos, A., Lovasz, E.-C., Margineanu, D. -T.: Dynamic Behavior of Active Lightweight Compliant Mechanisms with Integrated Piezoceramic Actuators by Under-and Overcritical Periodic Excitation, 4th Conference on Microactuators and Micromechanisms, 05-07.10.2016, Microactuators and Micromechanisms, MAMM-2016, Book Series: Mechanism and Machine Science, 45, (2017), 213-225, ISSN 2211-0984

34. Mesaroș-Anghel V., Lovasz E.-C., Gruescu C.M., Moldovan C.E. - Optimal Design of a Grasping Device Through Simplified Pose Synthesis of a Four-Bar Linkage, - Proceedings of the Joint International Conference of the XII International Conference on Mechanisms and Mechanical Transmissions (MTM) and the XXIII International Conference on Robotics (Robotics'16), 2017, Series: Mechanisms and Machine Science, Springer International Publishing, 46, (2017), 3-13, ISSN 2211-0984.

35. Lovasz, E. -C., Mesaros-Anghel, V., Gruescu, C. M., Moldovan, C. E., Ceccarelli, M.: General Algorithm for Computing the Theoretical Centering Precision of the Gripping Devices, 12th International Conference on the Theory of Machines and Mechanisms, Liberec, 06-08.09.2016, Advances In Mechanism Design II, Book Series: Mechanism and Machine Science, 45, (2017), 15-21, ISSN 2211-0984.

36. Grigorescu S.M., Lovasz E.-C., Mărgineanu D.T., Pop C., Pop F. -Dimensional Synthesis of Planar Parallel Manipulator using Geared Linkages with Linear Actuation as Kinematic Chains, Proceedings of the Joint International Conference of the XII International Conference on Mechanisms and Mechanical Transmissions (MTM) and the XXIII International Conference on Robotics (Robotics'16), 2017, Series: Mechanisms and Machine Science, Springer International Publishing, 46, (2017), 77-85, ISSN 2211-0984.

37. Ciupe V., Mărgineanu D.T., Lovasz E.-C. - Scaled Test Stand Simulation for Studying the Behavior of Anti-lock Brake Systems on Bumpy Roads, Proceedings of the Joint International Conference of the XII International Conference on Mechanisms and Mechanical Transmissions (MTM) and the XXIII International Conference on Robotics (Robotics'16), 2017, Series: Mechanisms and Machine Science, Springer International Publishing, 46, (2017), 197-205, ISSN 2211-0984.

38. Vutan A. M., Davidescu A., Lovasz EC, Gruescu C.M., Ciupe V. - A New Method of Assessing the Evolution of Scoliosis, 4th International Conference of the Universitaria-Consortium (ICU), The Impact

- of Sport and Physical Education Science on Today's Society, 23-24 November, 2018 - Iasi (Romania), (2018), 395-400, ISBN 978-88-87729-54-2.
39. Vutan A.-M., Gruescu C.M., Ciupe V., Lovasz E.-C. -Discussion on Cobb Angle variation during progressive lateral flexion of the trunk, IOP Conference Series-Materials Science and Engineering, 444, (2018), 52020, ISSN 1757-8981
40. Mateas M., Moldovan C., Gruescu C.M., Kis A., Lovasz E.-C. - Novel rehabilitation system for the lower limb, IOP Conference Series-Materials Science and Engineering, 444, (2018), 52021, ISSN 1757-8981.
41. Iancu, C.; Ceccarelli, M.; Lovasz, E.-C.: Design and Lab Tests of a Scaled Leg Exoskeleton with Electric Actuators, 26th International Conference on Robotics in Alpe-Adria-Danube Region (RAAD), Torino, 21-23.06.2017, Book Series: Mechanism and Machine Science, v.49, (2017), 719-726, ISSN 2211-0984.
42. Vutan, A.-M., Gruescu, C.M., Ciupe, V., Margineanu, D., Lovasz, E.-C.: Effectiveness of physical exercises in the treatment of scoliosis - Mathematical approach, 6-th International Workshop on New Trends in Medical and Service Robotics, MESROB 2018, Cassino, 04-06.07.2018, Book Series: Mechanisms and Machine Science Vol. 65, (2019), 25-34, ISSN 2211-0984.
43. Lovasz EC, Ceccarelli M., Gruescu C.M., Carbone G., Carabas I. - A comparative anlysis of teaching MMs at Politehnica University of Timisoara and University of Cassino an south Latium, New Trends in Educational Activity in the Field of Mechanism and Machine Theory, Springer Publisher, Series: Mechanisms and Machine Science, Vol. 64, (2019), 91-102, ISBN 978-3-319-01844-7.
44. Lovasz, E.-C., Gruescu, C.M., Vutan, A.M., Margineanu, D.T.: Dynamic study of an adaptive intelligent cervical brace model under actuation, 4th IFToMM Symposium on Mechanism Design for Robotics, MEDER 2018, Udine, 11-13.09.2018, Book Series: Mechanisms and Machine Science, Vol. 66, (2019), 327-334, ISSN 2211-09845.
45. Teușdea D., Stan D.V., Vodă M., Lovasz E.-C. - Study on the influence of recycled material on the tensile strength of HDPE products, MODTECH international conference - modern technologies in industrial engineering VIII, 916, (2020), 012119, ISSN1757-8981
46. Moldovan C., Ciupe V., Dolga V., Lovasz E.-C., Maniu I. - Design and novel control solution for a modular mechatronic demonstrator with video feedback used in research and education, 12th International Conference on Machine Vision (ICMV 2019), 11433, (2019), 114332F, ISBN: 9-781510-636439.
47. Oarcea A., Lupuți A.-M.-F., Cobilean V., Stan S.D., Lovasz E.-C.: Kinematic Performance Analysis of a 3-R(RPRGR)RR Planar Parallel Robot, 1st IFToMM for Sustainable Development Goals workshop (I4SDG) Torino, 25-26.11.2021, Book Series: Mechanisms and Machine Science Vol. 108, (2022), 461-470, ISSN 2211-0984.
48. Crăciun N.G., Lovasz E.-C., Sticlaru C.: Study of Cooling Systems for Electronic Components Used in Robot Applications, 1st IFToMM for Sustainable Development Goals workshop (I4SDG) Torino, 25-26.11.2021, Book Series: Mechanisms and Machine Science Vol. 108, (2022), 315-324, ISSN 2211-0984.
49. Demjen T., Lovasz E.-C., Ceccarelli M., Sticlaru C., Lupuți A.-M.-F.: Analytical Synthesis of Five-Bar Linkage used for 3D Printer Structure, 4th International Conference of the IFToMM Italy, IFIT 2022 Naples, 7-9.09.2022, Series: Mechanisms and Machine Science, Springer International Publishing, 122, (2022), 105-113, ISSN 2211-0984.

50. Crăciun N.G., Lovasz E.-C.: Wire Actuation Mechanism for Wrist Exoskeleton, 8th International Workshop on New Trends in Medical and Service Robots, MESROB 2023, Series: Mechanisms and Machine Science, Springer International Publishing, 133, (2023), 117-124, ISSN 2211-0984.
51. Tulcan E.-G., Sticlaru C., Lovasz, E.-C.: Design of a Medical Robot with Folding Mechanism Used for Disinfection in the Hard-to-Reach Areas, International Workshop on New Trends in Medical and Service Robots, MESROB 2023, Series: Mechanisms and Machine Science, Springer International Publishing, 133, (2023), 351-359, ISSN 2211-0984.
52. Vutan A.-M., Gruescu C.M., Sticlaru C., Lovasz E.-C.: The Use of Accelerometers to Track Changes in Cobb Angles During Scoliosis Rehabilitation Exercises, International Workshop on New Trends in Medical and Service Robots, MESROB 2023, Series: Mechanisms and Machine Science, Springer International Publishing, 133, (2023), 279-286, ISSN 2211-0984
53. Tulcan, E.-G., Oarcea, A., Sticlaru, C., Ceccarelli, M., Lovasz, E.-C.: Analytical Synthesis of the Seven-Bar Linkage 7-PR(RRRR)RP Used for Medical Disinfection Robot, 6th Symposium on Mechanism Design for Robotics (MEDER) Timișoara, 27-29.06.2024, Book Series: Mechanisms and Machine Science, Mechanism Design for Robotics, MEDER 2024, Vol. 166, (2024), 334-344, ISSN 2211-0984.
54. Tulcan, E.-G., Sticlaru, C., Oarcea, A., Sandu, M.-O., Lovasz, E.-C.: Kinematic Analysis of the Seven-Bar Linkage 7-PR(RRRR)RP Used for Medical Disinfection Robot, 33rd International Conference on Robotics in Alpe-Adria-Danube Region (RAAD) Cluj-Napoca, 05-07.06.2024, Book Series: Mechanisms and Machine Science, Advances in Service and Industrial Robotics, RAAD 2024, Vol. 157, (2024), 359-367, ISSN 2211-0984.
55. Sandu, M.-O., Gruescu, C., Sticlaru, C., Kristof, R., Ciupe, V., Lovasz, E.-C.: Experimental Approach on the Force for Robotic Pipetting in Automated PCR (Polymerase Chain Reaction), 6th Symposium on Mechanism Design for Robotics (MEDER) Timișoara, 27-29.06.2024, Book Series: Mechanisms and Machine Science, Mechanism Design for Robotics, MEDER 2024, Vol. 166, (2024), 143-153, ISSN 2211-0984.
56. Popescu, I.-E., Florescu, F., Moldovan, C.-E., Buncianu, D., Tulcan, E.-G., Lovasz, E.-C.: Noncircular Cable-Pulley Mechanisms Used for Equilibrating the Wheelchair Backrest, 6th Symposium on Mechanism Design for Robotics (MEDER) Timișoara, 27-29.06.2024, Book Series: Mechanisms and Machine Science, Mechanism Design for Robotics, MEDER 2024, Vol. 166, (2024), 53-62, ISSN 2211-0984.
57. Oarcea, A., Tulcan, E.-G., Buncianu, D., Lovasz, E.-C.: Kinematic Analysis of the 4-U(RPRGR)RU Redundant Parallel Robot, 6th Symposium on Mechanism Design for Robotics (MEDER) Timișoara, 27-29.06.2024, Book Series: Mechanisms and Machine Science, Mechanism Design for Robotics, MEDER 2024, Vol. 166, (2024), 361-370, ISSN 2211-0984.
58. Oarcea, A., Tulcan, E.-G., Kristof, R., Lovasz, E.-C.: Comparative Study of the Kinematic Performance Indices for the 3-U(RPRGR)RU and the 3-URU Parallel Robots, 33rd International Conference on Robotics in Alpe-Adria-Danube Region (RAAD) Cluj-Napoca, 05-07.06.2024, Book Series: Mechanisms and Machine Science, Advances in Service and Industrial Robotics, RAAD 2024, Vol. 157, (2024), 347-357, ISSN 2211-0984.
59. Lovasz, E.-C., Ceccarelli, M., Tulcan, E.-G., Oarcea, A., Silaghi-Perju, D.C., Sticlaru C., Buncianu, D.: Unitary Synthesis Method of Basic Mechanisms with Translating Driven Element, 14th International

Conference on the Theory of Machines and Mechanisms (TMM), Liberec, 03-05.09.2024, Book Series: Mechanisms and Machine Science, Advances in Mechanism Design IV, TMM 2024, Vol. 171, (2024), 12-21, ISSN 2211-0984.

60. Crăciun, N.-G., Tulcan, E.-G., Ciapa, C., Lovasz, E.-C.: Kinematic Analysis of the 4-U(RPRGR)RU Redundant Parallel Robot, 6th Symposium on Mechanism Design for Robotics (MEDER) Timișoara, 27-29.06.2024, Book Series: Mechanisms and Machine Science, Mechanism Design for Robotics, MEDER 2024, Vol. 166, (2024), 361-370, ISSN 2211-0984.

61. Tulcan, E.-G., Sticlaru, C., Crăciun, N.-G., Pop, F., Lovasz, E.-C.: Medical Disinfection Robots. A Review on Disinfection Methods. Proceeding of the 12th International Conference of Machine and Industrial Design in Mechanical Engineering—KOD 2024, Machine and Industrial Design in Mechanical Engineering, Proceedings of KOD 2024, Series: Mechanisms and Machine Science, Springer International Publishing, 174, (2025), 853-860, ISSN 2211-0984.

62. Tulcan, E.-G., Sticlaru, C., Oarcea, A., Sandu, MO., Lovasz, E.-C.: Comparative Analysis of the 7-RR(RRRR)RR and 7-PR(RRRR)RP Seven-Bar Linkages for the Design of a Medical Disinfection Robot with Folding Mechanism, MTM&Robotics 2024, New Advances in Mechanisms, Mechanical Transmissions and Robotics, MTM&Robotics 2024, , Series: Mechanisms and Machine Science, Springer International Publishing, 178, (2025), 199-207, ISSN 2211-0984.

63. Popescu I.E., Florescu F., Buncianu D., Tulcan E.-G, Dobra A., Lovasz E.-C.: Inverted Cardan-Gear Spring Mechanism Used for Balancing the Wheelchair Backrest and Footrest., MTM&Robotics 2024, New Advances in Mechanisms, Mechanical Transmissions and Robotics, MTM&Robotics 2024, , Series: Mechanisms and Machine Science, Springer International Publishing, 178, (2025), 137-146, ISSN 2211-0984.

64. Tulcan, E.-G, Oarcea, A., Lovasz, E.-C., Maniu I.: The Influence of Link Lengths on the Kinematic Performance of the 2R Serial Robot, MTM&Robotics 2024, New Advances in Mechanisms, Mechanical Transmissions and Robotics, MTM&Robotics 2024, , Series: Mechanisms and Machine Science, Springer International Publishing, 178, (2025), 104-113, ISSN 2211-0984.

65. Florescu F., Scurt A.M., Popescu I.-E., Lovasz, E.-C., Kristof R., Buncianu D.: Optimal Synthesis of the Geared Linkages with Linear Actuation Used for Orientation Modules, MTM&Robotics 2024, New Advances in Mechanisms, Mechanical Transmissions and Robotics, MTM&Robotics 2024, , Series: Mechanisms and Machine Science, Springer International Publishing, 178, (2025), 147-156, ISSN 2211-0984.

66. Buncianu D., Mărgineanu D.T., Lovasz, E.-C.: Methods and Device Improvement for Measuring the Friction in Bolted Joints, MTM&Robotics 2024, New Advances in Mechanisms, Mechanical Transmissions and Robotics, MTM&Robotics 2024, , Series: Mechanisms and Machine Science, Springer International Publishing, 178, (2025), 57-67, ISSN 2211-0984

2. Lucrari BDI publicate

1. Mihalko S.S., Matei I.V., Lovasz E.-C. - Design Development of a Visual Monitoring and Extinguishing System, Robotica & Management, Vol. 23(1), (2018), 21-24, ISSN 1453-2069 (Google Scholar).

2. Demjen T., Lovasz E.-C., Sticlaru C., Teușdea D., Cărbăș I. - Development of a Novel 3D Spherical Printer, Robotica & Management, Vol. 24(2), (2019), 16-18, ISSN 1453-2069 (Google Scholar).

3. Demjen T., Lovasz E.-C., Gruescu C.M. - About Research and Development of 3D Printing in Different Industrial Applications, *Robotica & Management*, Vol. 25(1), (2020), 15-17 ISSN 1453-2069 (Google Scholar).
4. Tulcan E., Lovasz E.-C.: Research on Robots Used in Surgical Applications, *Robotica & Management*, Vol. 27(1), (2022), 37-40 ISSN 1453-2069 (Google Scholar).
5. Micle L.-M., Lovasz E.-C.: Development of a Prosthetic Hand with Adaptive Grip, *Robotica & Management*, Vol. 27(1), (2022), 14-18 ISSN 1453-2069 (Google Scholar).
6. Silaghi-Perju, D.-C., Lovasz E.-C., Perju D., Gruescu C.-M., Mărgineanu D.T.: Total Size Minimization of Cam Mechanisms with Translating Follower, *Journal of Engineering Science and Inovation JESI*, 7(2), (2022), 159-174 ISSN 2601 -6699 (Google Scholar).
7. Ciupe V., Maniu I., Lovasz E.-C.: Structure and Control Method for a Pneumatic Muscle Actuated Seat Used in a Motion Simulator, 4th Conference on Robotics, *Journal Applied Mechanics and Materials* 762 (2015) 83-90. (Google Scholar)
8. Moldovan C., Craciun A., Dolga V., Lovasz E.-C., Maniu I., Sticlaru C.: On the Development of a Voice and Gesture Based HMI for the Control of a Mobile Robot, 4th Conference on Robotics, *Journal Applied Mechanics and Materials* 762 (2015) 201-204. (Google Scholar)
9. Pop F., Lovasz E.-C., Dolga V., Ceccarelli M., Mărgineanu D., Pop C. - A dynamic analysis based on MBD ADAMS program for a variant of quadruped robot, *International Conference on Mechanical Engineering ICOME 2015, Applied Mechanics and Materials* 823, (2016), 429-434 (Google Scholar)
10. Lovasz E.-C., Modler K.-H., Mărgineanu D.T., Maniu I., Ciupe V., Gruescu C.M.- Getriebetechnische und Mechatronische Anwendungen in Robotik, 10. Getriebekolloquium, TU Dresden, 2017, (2017) 179-192, (Google Scholar).
11. Mărgineanu D., Lovasz E.-C., Gruescu C.M., Ciupe V., Tatar S. - 5 DoF haptic exoskeleton for space telerobotics – Shoulder module, 4th Conference on Mechanisms, Transmissions and Application MeTrApp 2017, Series: Mechanisms and Machine Science, Springer International Publishing, 52, (2018), 111-120, ISSN 2211-0984
12. Grigorescu S.M., Lovasz E.-C., Pop C. - Kinematic analysis of a 3-RRPS manipulator, The 12th IFToMM International Symposium on Science of Mechanisms and Machines, SYROM 2017, Iasi, Series: Mechanisms and Machine Science, Springer International Publishing, 57, (2018), 401-411, ISSN 2211-0984
13. Moldovan C., Maniu I., Lovasz E.C., Stoian A.-M.- Study on the effects of rotation Axis misalignment in an exoskeleton-human hip joint, The 12th IFToMM International Symposium on Science of Mechanisms and Machines, SYROM 2017, Iasi, Series: Mechanisms and Machine Science, Springer International Publishing, 57, (2018), 165-170, ISSN 2211-0984
14. Pop F., Pop C., Lovasz E.-C., Grigorescu S.M., Cărbăș I. - Single DOF leg mechanisms analysis using GIM software, The 12th IFToMM International Symposium on Science of Mechanisms and Machines, SYROM 2017, Iasi, Series: Mechanisms and Machine Science, Springer International Publishing, 57, (2018), 273-282, ISSN 2211-0984
15. Vutan A.-M., Ciupe V., Gruescu C.M., Lovasz E.-C. - Experimental method for dynamic evaluation of spinal column deformation exercises The 12th IFToMM International Symposium on Science of

- Mechanisms and Machines, SYROM 2017, Iasi, Series: Mechanisms and Machine Science, Springer International Publishing, 57, (2018), 137-146, ISSN 2211-0984
16. Lovasz, E.-C., Sticlaru, C., Suciu, C., Gruescu C.M., Ceccarelli M., Maniu, I., Moldovan, C.E. - Novel Actuation Design of an Active Elbow Orthosis, 15th International Federation for the Promotion of Mechanism and Machine Science World Congress, IFToMM 2019, Cracow, Series: Mechanisms and Machine Science, Springer International Publishing, 73, (2019), 1527 - 1534, ISSN 2211-0984
17. Vutan A.M., Gruescu C.M., Lovasz E.C., Ciupe V. - Method to model the spinal column shape, 10th Product Design, Robotics, Advanced Mechanical and Mechatronic Systems and Innovation Conference, PRASIC 2018, Brasov, IOP Conference Series: Materials Science and Engineering 514(1), (2019), 012046
18. Lovasz E.C., Gruescu C.M., Sticlaru C., Moldovan C.E., Stoian M. - Novel solutions for actuation of an above elbow prosthesis, 10th Product Design, Robotics, Advanced Mechanical and Mechatronic Systems and Innovation Conference, PRASIC 2018, Brasov, IOP Conference Series: Materials Science and Engineering 514(1), (2019), 012047.
19. Sticlaru C., Țucă P., Lovasz E.-C., Gruescu C., Moldovan C.E. - Novel Solution for the Mechanism Used in the Actuation of Intelligent Roof Windows, 5th Conference on Mecanisms, Transmissions and Application MeTrApp 2019, Series: Mechanisms and Machine Science, Springer International Publishing, 79, (2020), 182-191, ISSN 2211-0984
20. Teusdea D.F., N.A.Sîrbu, Vodă M., Oancă O.V., Lovasz E.-C.- Researches on Manufacturing Deo Roll Balls by Infrared Radiation Welding, ModTech International Conference, Advanced Materials Research 1157, (2020), 21-30, (Google Scholar)
21. DF Teusdea, OV Oancă, M Vodă, NA Sîrbu, EC Lovasz: Researches on Manufacturing Deo Roll Balls by Ultrasonic Welding, ModTech International Conference 2020, Advanced Materials Research 1157, (2020) 58-72, (Google Scholar)
22. Grigorescu, S.M., Lupuți, A.-M.-F., Maniu, I., Lovasz, E.-C. - Novel planar parallel manipulator using geared slider-crank with linear actuation as connection kinematic chain, 8-th European Conference on Mechanism Science EUCOMES 2020, Series: Mechanisms and Machine Science, Springer International Publishing, 89, (2020), 496- 505, ISSN 2211-0984
23. Teușdea D.F., Lovasz E.-C., Vodă M., Sîrbu N.-A. Maniu I., Bizet,J.P. - Study on High Productivity Manufacturing Line for Deo Roll Balls, The Joint International Conference of the XIII International Conference on Mechanisms and Mechanical Transmissions (MTM) and the XXIV International Conference on Robotics MTM&Robotics 2020, Series: Mechanisms and Machine Science, Springer International Publishing, 88, (2021), 201-211, ISSN 2211-0984
24. Lupuți A.-M.-F., Grigorescu S.M., Lovasz E.-C., Sticlaru C., Cărbăș I. – Kinematics of the Planar Parallel Manipulator Using Geared Slider-Crank with Linear Actuation as Legs 3-R(PRRGR)RR, The Joint International Conference of the XIII International Conference on Mechanisms and Mechanical Transmissions (MTM) and the XXIV International Conference on Robotics MTM&Robotics 2020, Series: Mechanisms and Machine Science, Springer International Publishing, 88, (2021), 249-261, ISSN 2211-0984
25. Gruescu C.-M., Davidescu A., Sticlaru C., Lovasz E.-C. - Interference Fits. Bearing Capacity Under Complex Loading – FEM Analysis, The Joint International Conference of the XIII International Conference on Mechanisms and Mechanical Transmissions (MTM) and the XXIV International

- Conference on Robotics MTM&Robotics 2020, Series: Mechanisms and Machine Science, Springer International Publishing, 88, (2021), 403-414, ISSN 2211-0984
26. Luputi A.-M.-F., Lovasz E.-C., Ceccarelli M., Carmen S., Stoian A.-M. - Kinematic Simulation of a Geared Planar Parallel Manipulator, 5th IFToMM Symposium on Mechanism Design for Robotics MEDER 2021, Series: Mechanisms and Machine Science, Springer International Publishing, 103, (2021), 102-110, ISSN 2211-0984
27. Lovasz E.-C. - Mechanism Applications in Robotics, 11th International Conference on Machine and Industrial Design in Mechanical Engineering, KOD 2021 Novi Sad, Series: Mechanisms and Machine Science, Springer International Publishing, 109, (2022), 51-68, ISSN 2211-0984
28. Alexeev L., Dobra A., Lovasz E.-C. - Walking Robot with Modified Jansen Linkage, 11th International Conference on Machine and Industrial Design in Mechanical Engineering, KOD 2021 Novi Sad, Series: Mechanisms and Machine Science, Springer International Publishing, 109, (2022), 577-584, ISSN 2211-0984
29. Florescu F., Popescu I.-E., Moldovan C.E., Lovasz E.-C.: Type synthesis of the mechanisms with linear actuation useful for orientation modules, Proceedings of SYROM 2022 & ROBOTICS 2022: 13th IFToMM International Symposium on Science of Mechanisms and Machines & XXV International Conference on Robotics, 2022, Series: Mechanisms and Machine Science, Springer International Publishing, 127, (2023), 29-36, ISSN 2211-0984.
30. Crăciun N.G., Lovasz E.-C., Mateaș M.C., Moldovan C.E.: A State of Art Overview on Wrist Rehabilitation Exoskeletons, Proceedings of SYROM 2022 & ROBOTICS 2022: 13th IFToMM International Symposium on Science of Mechanisms and Machines & XXV International Conference on Robotics, 2022, Series: Mechanisms and Machine Science, Springer International Publishing, 127, (2023), 209-218, ISSN 2211-0984.
31. Sandu M.-O., Gruescu C.-M., Lovasz E.-C., Ciupe V.: Synthesis of an Automation System for the PCR (Polymerase Chain Reaction) Samples Preparation Process, Proceedings of SYROM 2022 & ROBOTICS 2022: 13th IFToMM International Symposium on Science of Mechanisms and Machines & XXV International Conference on Robotics, 2022, Series: Mechanisms and Machine Science, Springer International Publishing, 127, (2023), 389-396, ISSN 2211-0984.
32. Popescu I.-E., Florescu F., Sticlaru C., Mărgineanu D.-T., Lovasz E.-C.: A review on mechanisms used for the reconfigurable wheelchairs, Proceedings of SYROM 2022 & ROBOTICS 2022: 13th IFToMM International Symposium on Science of Mechanisms and Machines & XXV International Conference on Robotics, 2022, Series: Mechanisms and Machine Science, Springer International Publishing, 127, (2023), 19-28, ISSN 2211-0984.
33. Florescu F., Zaharia R.S., Popescu I.-E., Oarcea A., Lovasz E.-C.: Development of Orientation Modules with Linear Actuation, 2nd IFToMM Workshop for Sustainable Development Goals, I4SDG 2023, Series: Mechanisms and Machine Science, Springer International Publishing, 134, (2023), 233 - 240, ISSN 2211-0984.
34. Tulcan E.-G., Oarcea A., Lovasz E.-C.: Analytical Synthesis of the Seven-Bar Linkage 7-RR(RRRR)RR Used for Medical Disinfection Robot, 2nd IFToMM Workshop for Sustainable Development Goals, I4SDG 2023, Series: Mechanisms and Machine Science, Springer International Publishing, 134, (2023), 171-180, ISSN 2211-0984.

35. Tivadar D., Oarcea A., Sticlaru C., Ceccarelli M., Lovasz E.-C.: Analytical Synthesis of Five-Bar Linkage 5-RPRPR, 2nd IFToMM Workshop for Sustainable Development Goals, I4SDG 2023, Series: Mechanisms and Machine Science, Springer International Publishing, 134, (2023), 241-250, ISSN 2211-0984
36. Oarcea A., Tulcan E.-G., Lovasz E.-C.: Kinematic Analysis of the 3-U(RPRGR)RU Parallel Robot, 6th IFToMM International Conference on Mechanisms, Transmissions, and Applications, MeTrApp 2023, Series: Mechanisms and Machine Science, Springer International Publishing, 124, (2023), 189-196, ISSN 2211-0984.
37. Micle L.-M., Lovasz E.-C.: Facial Reconstruction from an Archeological Starting Point, 17th International Conference on Engineering of Modern Electric Systems, EMES 2023, 190633, (2023), ISBN 979-835031063-4.
38. Tulcan E.-G., Sticlaru C., Oarcea A., Lovasz E.-C.: Medical Disinfection Robots: Past vs Future. Improving the Disinfection Process by Using Disinfection Robots with Folding Mechanism, 17th International Conference on Engineering of Modern Electric Systems, EMES 2023, 190633, (2023), ISBN 979-835031063-4.
39. Tivadar D., Oarcea A., Ceccarelli M., Lovasz E.-C., Buncianu, D., Silaghi-Perju, D.-C.: Analytical Synthesis of Five-Bar Linkage 5-PRRRP, 16th International Federation of Theory of Machines and Mechanisms World Congress, IFToMM WC 2023, Series: Mechanisms and Machine Science, Springer International Publishing, 149, (2024), 321 - 331, ISSN 2211-0984.
40. Lovasz E.-C., Moldovan C.-E., Mateaș M.-C.: Overview of Special Wire Mechanisms Used for Self-balancing Mechanisms, Series: Mechanisms and Machine Science, Springer International Publishing, 150, (2024), 169 - 188, ISSN 2211-0984.
41. Tivadar, D., Lovasz, E.-C., Ceccarelli, M., Russo, M., Tulcan, E.-G., Oarcea, A.: Design of a 3D Printer with Five-Bar Linkage, 25th International Symposium on Measurement and Control in Robotics, ISMCR 2023, Series: Mechanisms and Machine Science, Springer International Publishing, 154, (2024), 51 - 59, ISSN 2211-0984.
42. Oarcea, A., Tulcan, E.-G., Lovasz, E.-C.: Kinematic Performance Analysis of the 3-U(RPRGR)RU Parallel Robot, 25th International Symposium on Measurement and Control in Robotics, ISMCR 2023, Series: Mechanisms and Machine Science, Springer International Publishing, 154, (2024), 61 - 72, ISSN 2211-0984.
43. Tulcan, E.-G., Sticlaru, C., Crăciun, N.-G., Pop, F., Lovasz, E.-C.: Medical Disinfection Robots. A Review on Disinfection Methods. Proceeding of the 12th International Conference of Machine and Industrial Design in Mechanical Engineering—KOD 2024, Machine and Industrial Design in Mechanical Engineering, Proceedings of KOD 2024, Series: Mechanisms and Machine Science, Springer International Publishing, 174, (2025), 853-860, ISSN 2211-0984.
44. Tivadar, D., Lovasz, E.-C., Ceccarelli, M., Russo, M., Tulcan, E.-G., Oarcea, A.: Design of a 3D Printer with Five-Bar Linkage, 25th International Symposium on Measurement and Control in Robotics, ISMCR 2023, Series: Mechanisms and Machine Science, Springer International Publishing, 154, (2024), 51 - 59, ISSN 2211-0984.
45. Oarcea, A., Tulcan, E.-G., Lovasz, E.-C.: Kinematic Performance Analysis of the 3-U(RPRGR)RU Parallel Robot, 25th International Symposium on Measurement and Control in Robotics, ISMCR 2023,

Series: Mechanisms and Machine Science, Springer International Publishing, 154, (2024), 61 - 72, ISSN 2211-0984.

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1. -

- Selecție cu maximum 20 lucrări în volume de conferințe

1. Tulcan E.-G., Sticlaru C., Lovasz E.-C.: Design of a Novel Medical Disinfection Robot with Folding Mechanism, The XVI International Conference on Systems, Automatic Control and Measurements 2022.
2. Oarcea A., Tulcan E.-G., Lovasz E.-C.: Kinematic performance analysis of the 3-U(RPRGR)RU parallel robot, The XVI International Conference on Systems, Automatic Control and Measurements 2022.
3. Tivadar D., Lovasz E.-C., Ceccarelli M., Russo M., Tulcan E.-G., Oarcea A.: Design of a 3D Printer with Five-Bar Linkage, The XVI International Conference on Systems, Automatic Control and Measurements 2022.

E. Brevete obținute în întreaga activitate

1. Mecanism de direcție cu camă plană, Autori: Adrian Cipleu, Anca Drăghici, Gabriel Ciodaru, Erwin-Christian Lovasz, RO 123472 B1, B62D-003/02; F16H-025/08, 2012 OSIM.
2. Guanto sensorizzato, Autori: Lovasz K.-E., Sticlaru C., Lovasz E.-C., Russo, M., Cafolla D., Ceccarelli M, Olah A., Italia, N. 202024000003957 (A61B), 17.12.2024
3. Robot mobile di disinfezione, Autori: Ceccarelli M, Lovasz E.-C., Sticlaru C., Tulcan E.-G., Italia, N. 102023000008523 (A61L), 12.05.2025
4. Dispositivo di assistenza con meccanismo pentalatero per assistenza motoria del braccio, Autori: Oarcea A., Demjen T., Lovasz E.-C., Ceccarelli M., Russo M., Italia, N. 1020230000011325 (A61H), 10.06.2025

Data: 14.11.2025

Semnătura:

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume: Stoian Ana-Maria

Gradul didactic: Sef lucrari

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: Facultatea de Mecanică

Departamentul: Mecatronică

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Titlul tezei de doctorat “Dezvoltarea unor dispozitive modulare utilizate în robotica medicală”

Domeniul: Inginerie Mecanică

B. Cărți si capitole în cărți publicate în ultimii 10 ani**C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani**

1. Stoian,A.-M; Maniu, I.; Lovasz, E.-C.; Gruescu, C., Design Solutions to Simplify the Calibration of a Robotic Flexible Manufacturing System, NEW ADVANCES IN MECHANISM, MECHANICAL TRANSMISSIONS AND ROBOTICS Book Series: Mechanisms and Machine Science Volume: 46 Published: 2017.
2. Kristof, R.; Ciupe, V.; Moldovan, C.; Banda, M.; Stoian, A.-M., Arduino mobile robot with Myo Armband gesture, SACI 2019 - IEEE 13th International Symposium on Applied Computational Intelligence and Informatics, Proceedings 9111627.
3. Kristof, R.; Ciupe, V.; Moldovan, C.; Banda, M.; Stoian, A.-M., On the design of a myoelectric human-machine interface for the control of an industrial robot, SACI 2019 - IEEE 13th International Symposium on Applied Computational Intelligence and Informatics, Proceedings 9111521.
4. Moldovan, C.; Maniu, I.; Lovasz, E.-C.; Stoian,A.-M., Study on the Effects of Rotation Axis Misalignment in an Exoskeleton-Human Hip Joint, Mecanisms and Machine Science 57, 2017.
5. Antonio-Marius-Flavius Luputi , Erwin-Christian Lovasz , Marco Ceccarelli , Carmen Sticlaru and Ana-Maria Scurt (Stoian), Kinematic Study of a Geared Planar Parallel Manipulator, Part C: Journal of Mechanical EngineeringScience
6. Antonio-Marius-Flavius Luputi , Erwin-Christian Lovasz , Marco Ceccarelli , Carmen Sticlaru and Ana-Maria Scurt (Stoian), Kinematic study of feasibility of geared planar parallel manipulator, Part C: Journal of Mechanical Engineering Science 2022, Vol. 236(18) 10001–10016

7. Florescu F., Scurt A.M., Popescu I.-E., Lovasz, E.-C., Kristof R., Buncianu D.: Optimal Synthesis of the Geared Linkages with Linear Actuation Used for Orientation Modules, MTM&Robotics 2024, New Advances in Mechanisms, Mechanical Transmissions and Robotics, MTM&Robotics 2024, , Series: Mechanisms and Machine Science, Springer International Publishing, 178, (2025), 147-156, ISSN 2211-0984.

8.

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E. Brevete obținute în întreaga activitate

1.

Data:

14.11.2025

Semnătura:

A N E X A 4 . 1

Nume Prenume: Titus SLAVICI

Gradul didactic: Prof. dr. ing.

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: Facultatea de Mecanică

Departamentul: Ingineria Materialelor și Fabricației

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Optimizarea managementului financiar al întreprinderii cu ajutorul metodelor inteligenței artificiale.

B Cărți și capitole în cărți publicate în ultimii 10 anii

1. T.Slavici, Ș.Popa, K. Herman – „Limbaje de programare. Limbajul C,, Ed. Eurostampa, Timișoara 2007, ISBN: 978-973-687-608-0
2. T.Slavici – „Inteligența artificială – Elemente fundamentale și aplicații în domeniul economic și tehnic”, 2006, Ed. Eurostampa, ISBN: 973-687-375-7
3. T.Slavici – “Aplicații ale inteligenței artificiale în domeniile economic și tehnic”, 2007, Ed. Mirton, ISBN: 978-973-52-0211-8
4. T.Slavici, I.Groza,D.Gubencu, A.V.Mnerie, G.V. Mnerie, A.Han, L. Dorneanu, V. Bivolaru, A. Körösi – „Fundamentele utilizării calculatoarelor”, 2007, Ed. Eurostampa, ISBN: 978-973-687-625-7
5. D.Darvasi, L. Dorneanu, A. Bădescu, M. Untaru, T. Slavici – “Sisteme expert și rețele neuronale în economie și tehnică”, 2010, Ed. Eurostampa, ISBN: 978-606-569-202-2
6. I.R.Stanciu, A.Bebeșelea, A.V.Mnerie, M.Krepelka, I.Groza, V.Kurti, A.Korosi, G.V.Mnerie, L.Dorneanu, Titus Slavici – „Utilizarea calculatoarelor în mediul economic”, 2013, Ed.Eurostampa, ISBN: 978-606-569-534-4
7. I.Ștefan, A.Bebeșelea, Titus Slavici – „Finanțele publice și fiscalitatea României”, 2013, Ed. Eurostampa, ISBN: 978-606-569-528-3
8. A.Bebeșelea, Titus Slavici, A.Simulescu, L.Cernescu – „Monedă și credit Economie monetară și financiară”, 2012, Ed.Eurostampa, ISBN: 978-606-8480-07-7
9. A.Bebeșelea, Titus Slavici, D.Albu – „Relații monetare și financiare internaționale Buget și trezorerie publică”, 2012, Ed.Eurostampa, ISBN: 978-606-8480-06-0
10. L.Herman, T.Slavici – „Tehnici de programare clasice și orientate pe obiecte”, 2013, Ed. Mirton, ISBN: 978-973-52-1319-0, Ed. FIS ISBN:978-606-8480-14-5

11. S.Mariș, G .V. Mnerie, L.Dorneanu, D.Mnerie, C.Saizescu, N.Ularu, T. Slavici – Elemente de algebră, analiză matematică și matematici discrete, Editura Eurostampa si Editura Fundației pentru Cultură și Învățământ „Ioan Slavici”, Timișoara 2015 –ISBN: 978-606-569-970-0, ISBN: 978-606-8480-31-2.
12. Simina Mariș, Nicoleta Ularu, Mihai Benga, Titus Slavici – Programare logică și inteligență artificială, 978-606-32-0096-0, 2015. *Coeditare cu Fundația Ioan Slavici, Timișoara*, ISBN: 978-606-8480-26-8
13. Nicoleta Ularu, Andreea Bozeșan, Cristian Coșariu, Liviu Herman, Mihai Adrian, Mircea Baba, Titus Slavici –Ingineria programării și limbaje de programare. Notițe de curs, teme de laborator și proiect, 978-606-32-0106-6, 2015. *Coeditare cu Fundația Ioan Slavici, Timișoara*, ISBN: 978-606-8480-36-7
14. Titus Slavici, A.Reviczky-Levay, D.Gubencu, A.Mnerie – „Comanda și controlul sistemelor tehnologice cu calculatorul. Metode CAD/CAM” – 2006, Ed. Fundației „Ioan Slavici” ,ISBN: 973-8093-35-X
15. I.Groza, D.Gubencu, A. Mnerie, K.Herman, A. Han, L. Dorneanu, V. Bivolaru, A Körösi, T. Slavici – “Calculatoare personale – Introducere în utilizare”, Ed. “IOAN SLAVICI”, 2006, ISBN: 973-687-158-4
16. A.Reviczky-Levay, T. Slavici, D.Gubencu – „Comanda și controlul sistemelor tehnologice cu calculatorul. Metode CAD/CAM” Ed. Fundației „Ioan Slavici” Timișoara 2006, ISBN: 973-8093-35-X
17. T. Slavici, Ș. Popa, K. Hermann – “Limbaje de programare – Tehnici de laborator și proiect”, Ed. Fundației „Ioan Slavici” Timișoara 2009, ISBN: 978-973-88962-3-9
18. D. Gubencu, A. Reviczky-Levay, A. Mnerie, T.Slavici – “Procese tehnologice asistate de calculator”, Ed. Fundației „Ioan Slavici” Timișoara 2009, ISBN: 978-973-88962-1-5
19. A. Reviczky, T.Slavici, D. Gubencu – “Comanda și controlul sistemelor tehnologice cu calculatorul. Metode CAD/CAM”, Ed. Fundației “IOAN SLAVICI” Timișoara 2004, ISBN: 973-8093-35-X
20. F.Molnar-Matei, A.Bebeșelea, A.V. Mnerie, M. Krepelka, I.Groza, V.Kürti, A.Körösi, G.V.Mnerie, L.Dorneanu, T. Slavici – “Utilizarea și programarea calculatoarelor”, Ed. “Ioan Slavici”, 2008, ISBN : 978-973-88962-0-8
21. F.Molnar-Matei, A.Bebeșelea, A.V. Mnerie, M. Krepelka, I.Groza, V.Kürti, A.Körösi, G.V.Mnerie, L.Dorneanu, T. Slavici – “Utilizarea și programarea calculatoarelor”, Ed. “Ioan Slavici”, 2008, ISBN: 978-973-88962-0-8
22. Ioan Groza, Titus Slavici, Cojocariu Cristian, Mădean Andrei - “ACHIZIȚIA DATELOR TRANSMISE DE INSTRUMENTE DE MĂSURARE DIGITALE “Material suport realizat în cadrul proiectului: Echipamente flexibile și modulare de conducere numerică a proceselor tehnologice, cu aplicații în realizarea echipamentelor didactice și a echipamentelor pentru prelucrarea materialelor și nanotehnologii, Editura Fundației Ioan Slavici, Timișoara, 2010 ISBN: 978-606-92306-6-4
23. Slavici Titus, Gubencu Dinu – “TEHNICI MODERNE DE UTILIZARE A COMENZII NUMERICE ASISTATE DE CALCULATOR PENTRU OPTIMIZAREA PRELUCRĂRII

MATERIALELOR” - Material suport realizat în cadrul proiectului: Echipamente flexibile și modulare de conducere numerică a proceselor tehnologice, cu aplicații în realizarea echipamentelor didactice și a echipamentelor pentru prelucrarea materialelor și nanotehnologii, ID PROIECT 2.3.1, Editura Fundației Ioan Slavici, Timișoara, 2010 , ISBN 978-606-92306-6-4.

C Lucrări indexate ISI/BDI publicate în ultimii 10 anii

ISI

1. Segneanu, AE; Bandas, C; Grozescu, I; Czipile, F; Slavici, T; Sfirloaga, P., Hybrid materials for the removal of organic compounds from water, Environmental Engineering and Management Journal, vol.12(5), pag. 1071-1077, 2013.
2. Slavici, T; Darvasi, D; Mnerie, A., Cechin-Crista, P., Development of Economical and Efficient Mixed Reactive Carbonates for Peptide Synthesis through Scientific Planning, Revista de Chimie, vol. 64 (4), pag. 425-429, 2013.
3. Slavici, T., Almajan, B., Artificial intelligence techniques: an efficient new approach to challenge the assessment of complex clinical fields such as airway clearance techniques in patients with cystic fibrosis, JOURNAL OF REHABILITATION MEDICINE, vol. 45 (4), pag. 397-402, 2013.
4. Macarie, C.; Bebeselea, A.; Balcu, I.; Slavici, T.; Darvasi, D.; Segneanu, A., Aspects Regarding the Economic Study of the Bioethanol obtained by Development of a New Environmentally Friendly Pretreated Method, Revista de Chimie, vol. 64(3), 2013.
5. Slavici, T.; Avram, C.; Mnerie, GV; Badescu, A.; Darvasi, D.; Molnar F.; Ungureanu, MA; Economic efficiency of primary care for CVD prevention and treatment in Eastern European countries, BMC HEALTH SERVICES RESEARCH, vol. 13 (75), 2013.
6. Slavici, T.; Mnerie, D.; Some applications of artificial neural networks in agricultural management, AKTUALNI ZADACI MEHANIZACIJE POLJOPRIVREDE, Book Series Title: Actual Tasks on Agricultural Engineering-Zagreb, vol. 40, pag. 363-373, 2012.
7. Darvasi, D (Darvasi, Doina); Badescu, A (Badescu, Adriana); Dobritoiu, C (Dobritoiu, Constantin); Molnar, F (Molnar, Florin); Slavici, T (Slavici, Titus), Accounting software using expert systems, RECENT ADVANCES IN BUSINESS ADMINISTRATION, Book Series Title: International Conference on Business Administration-Proceedings, pag. 97-102, 2011.
8. Tucu, D (Tucu, Dumitru); Golimba, AG (Golimba, Antonio-Gabriel); Slavici, T (Slavici, Titus), FUZZY METHODS IN RENEWABLE ENERGY OPTIMIZATION INVESTMENTS, ACTUAL TASKS ON AGRICULTURAL ENGINEERING, PROCEEDINGS, Book Series Title: Actual Tasks on Agricultural Engineering-Zagreb, vol. 38, pag. 455-462, 2010.
9. Borlea, I (Borlea, Ioan); Vuc, G (Vuc, Gheorghe); Jigoria-Oprea, D (Jigoria-Oprea, Dan); Kilyeni, A (Kilyeni, Annamaria); Barbulescu, C (Barbulescu, Constantin); Slavici, T (Slavici, Titus), A Rule-Based Expert System for Steady State Diagnosis of Electrical Distribution Networks, MELECON 2010: THE 15TH IEEE MEDITERRANEAN ELECTROTECHNICAL

- CONFERENCE, Book Series Title: IEEE Mediterranean Electrotechnical Conference-MELECON, pag. 142-147, 2010.
10. Kilyeni, S (Kilyeni, Stefan); Pop, O (Pop, Oana); Slavici, T (Slavici, Titus); Craciun, C (Craciun, Cristian); Andea, P (Andea, Petru); Mnerie, D (Mnerie, Dumitru), Transmission Cost Allocation Using the Distribution Factors Method, MELECON 2010: THE 15TH IEEE MEDITERRANEAN ELECTROTECHNICAL CONFERENCE, Book Series Title: IEEE Mediterranean Electrotechnical Conference-MELECON, pag. 1093-1098, 2010.
 11. Popa, M (Popa, Mircea); Slavici, T (Slavici, Titus), EMBEDDED SERVER WITH WAKE ON LAN FUNCTION, EUROCON 2009: INTERNATIONAL IEEE CONFERENCE DEVOTED TO THE 150 ANNIVERSARY OF ALEXANDER S. POPOV, VOLS 1- 4, PROCEEDINGS, pag. 365-370, 2009.
 12. Mnerie, D (Mnerie, Dumitru); Tucu, D (Tucu, Dumitru); Anghel, GV (Anghel, Gabriela Victoria); Slavici, T (Slavici, Titus), Study about integration capacity of systems for agro-food production, ACTUAL TASKS ON AGRICULTURAL ENGINEERING, Book Series Title: Actual Tasks on Agricultural Engineering-Zagreb, vol.36, pag. 617-622, 2008.
 13. Popa, M (Popa, Mircea); Popa, AS (Popa, Anca Sorana); Slavici, T (Slavici, Titus); Silaghe, L (Silaghe, Liviu), On the implementation of the OSEK/VDX operating system on advanced microcontrollers, EUROCON 2007: THE INTERNATIONAL CONFERENCE ON COMPUTER AS A TOOL, VOLS 1-6, Conference Title: International Conference on Computer as a Tool (EUROCON 2007), pag. 1001-1008, 2007.

BDI

1. Mihai-Emanuel Basch, David-George Cristea, Virgil Tiponut, Titus Slavici – “Computer Aided Decision in Cataract Surgery” 192-196 LATEST TRENDS on SYSTEMS (Volume II) 14th WSEAS International Conference on SYSTEMS (Part of the 14th WSEAS CSCC Multiconference) (Volume II) Corfu Island, Greece, July 22-24, 2010, Indexed ACM
2. Zoltan Haraszy, Sebastian Micut, Virgil Tiponut, Titus Slavici – “An Adaptive Control Strategy for a Five-Fingered Prosthetic Hand” 399-405 LATEST TRENDS on SYSTEMS (Volume II) 14th WSEAS International
3. Zoltan Haraszy, David-George Cristea, Virgil Tiponut, Titus Slavici – “On Designing an Experimental Navigation System” 411-417 LATEST TRENDS on SYSTEMS (Volume II) 14th WSEAS International Conference on SYSTEMS (Part of the 14th WSEAS CSCC Multiconference) (Volume II) Corfu Island, Greece, July 22-24, 2010, Indexed ACM
4. Calin Jebelean, Ciprian-Bogdan Chirila, Titus Slavici, Vladimir Cretu – “Face Detection Using a Dual Cross-Validation of Chrominance/Luminance Channel Decisions and Decorrelation of the Color Space” 385-391 LATEST TRENDS on SYSTEMS (Volume II) 14th WSEAS International Conference on SYSTEMS (Part of the 14th WSEAS CSCC Multiconference) (Volume II) Corfu Island, Greece, July 22-24, 2010, Indexed ACM
5. Titus Slavici, Dumitru Mnerie, Liviu Hermann, Gheorghe Catalin Crisan – “Optimization of University Costs using Artificial Neural Networks“, Recent Researches in Sociology, Financing, Environment and Health Sciences“ ISBN: 978-960-474-287-5 10, p 200-205, 5th

- WSEAS International Conference on MANAGEMENT, MARKETING and FINANCES (MMF, 11), Playa Meloneras, Gran Canaria, Canary Islands, Spain, March 24-26, 2011 ,ISBN: 978-960-474-287-5,ISSN: 2221-9641 Published by WSEAS Press ISSN: 2221-9668, www.wseas.org ISSN: 2221-9684, Indexed EBSCO, SCOPUS
6. Liliana Dorneanu, Adriana Bebeselea, Alin Mnerie, Titus Slavici, Dumitru Mnerie – “A Study of Consumer Preferences for E-Retailers’ Attributes: An Application of Conjoint Analysis”, p. 205-210, Recent Researches in Sociology, Financing, Environment and Health Sciences ISBN: 978-960-474-287-5 10, 5th WSEAS International Conference on MANAGEMENT, MARKETING and FINANCES (MMF ,11), Playa Meloneras, Gran Canaria, Canary Islands ,Spain, March 24-26, 2011 ,ISBN: 978-960-474-287-5,ISSN: 2221-9641 Published by WSEAS Press ISSN: 2221-9668 ,www.wseas.org ISSN: 2221-9684 Indexed EBSCO, SCOPUS
 7. Liliana Dorneanu, Adriana Bebeselea, Alin Mnerie, Titus Slavici, Dumitru Mnerie – “A Study of Consumer Preferences for E-Retailers’ Attributes: An Application of Conjoint Analysis”, p. 205-210, Recent Researches in Sociology, Financing, Environment and Health Sciences ISBN: 978-960-474-287-5 10, 5th WSEAS International Conference on MANAGEMENT, MARKETING and FINANCES (MMF ,11), Playa Meloneras, Gran Canaria, Canary Islands ,Spain, March 24-26, 2011 ,ISBN: 978-960-474-287-5,ISSN: 2221-9641 Published by WSEAS Press ISSN: 2221-9668 ,www.wseas.org ISSN: 2221-9684 Indexed EBSCO, SCOPUS
 8. Dumitru Mnerie, Titus Slavici, George Catalin Crisan, Liviu Herman, Mircea Untaru – “Public Knowledge Base System for Public eProcurement: A Conceptual Model”, Recent Researches in Sociology, Financing, Environment and Health Sciences ISBN: 978-960-474-287-5 10, p 247-251, 5th WSEAS International Conference on MANAGEMENT, MARKETING and FINANCES (MMF ,11), Playa Meloneras, Gran Canaria, Canary Islands, Spain, March 24-26, 2011 ,ISBN: 978-960-474-287-5,ISSN: 2221-9641 Published by WSEAS Press ISSN: 2221-9668, www.wseas.org ISSN: 2221-9684, Indexed EBSCO, SCOPUS
 9. Titus Slavici, Dorel Andras, Doina Darvasi, Liliana Dorneanu, Adriana Badescu – “Risk In Microfinance Credit – Case Study for Romania, Bulgaria and Moldova”, Recent Researches in Sociology, Financing, Environment and Health Sciences ISBN: 978-960-474-287-5 10, p 327-333, 5th WSEAS International Conference on MANAGEMENT, MARKETING and FINANCES (MMF, 11), Playa Meloneras, Gran Canaria, Canary Islands ,Spain, March 24-26, 2011, ISBN: 978-960-474-287-5, ISSN: 2221-9641 Published by WSEAS Press ISSN: 2221-9668, www.wseas.org ISSN: 2221-9684, Indexed EBSCO, SCOPUS
 10. Teodora Dogaru, Mircea Untaru, Titus Slavici, Adriana Bebeselea, Tiberiu Ciobanu, Alexandra Dogaru, Adriana Badescu – “Nanobiotechnology for Improving Transdermal Drug Delivery”, Recent Researches in Sociology, Financing, Environment and Health Sciences ISBN: 978-960-474-287-5 10 p. 344-350, 5th WSEAS International Conference on MANAGEMENT, MARKETING and FINANCES (MMF, 11), Playa Meloneras, Gran Canaria, Canary Islands ,Spain, March 24-26, 2011, ISBN: 978-960-474-287-5,ISSN: 2221-9641 Published by WSEAS Press ISSN: 2221-9668, www.wseas.org ISSN: 2221-9684, Indexed EBSCO, SCOPUS

11. Alin Vasile MNERIE, Titus SLAVICI, Gabriela Victoria ANGHEL, Dumitru ȚUCU, Dumitru MNERIE – „THE CONTROL OF THE ELECTRICAL EROSION PROCESSING WITH WIRE ELECTRODE FOR PROCESSED PARTS QUALITY INCREASING” Nr.3/2007 Revista ARTN , ISSN 2359 – 8646; ISSN-L 2359 – 8646; On-line: ISSN 2359 – 8654; ISSN-L 2359 – 8646, indexat COPERNICUS CNCSIS B+ si Pro Quest
12. Titus SLAVICI, Virgil TIPONUȚ, Alin-Vasile MNERIE, Dumitru MNERIE - „MODULAR STRUCTURES OF NUMERICAL MANAGEMENT OF PROCESSES FOR THE PROCESSING OF MATERIALS AND NANOTECHNOLOGIES” Nr1/2009, Revista ARTN, ISSN 2359 – 8646; ISSN-L 2359 – 8646; On-line: ISSN 2359 – 8654; ISSN-L 2359 – 8646, indexat COPERNICUS CNCSIS B+ și Pro Quest
13. Alin MNERIE, Aurel NANU, Dumitru MNERIE, Titus SLAVICI – „SOME ASPECTS OF AUTOMATED ELECTRICAL EROSION MACHINE WITH WIRE ELECTRODE”, Nr1/2009 Revista ARTN, ISSN 2359 – 8646; ISSN-L 2359 – 8646; On-line: ISSN 2359 – 8654; ISSN-L 2359 – 8646, indexat COPERNICUS CNCSIS B+ și Pro Quest
14. Dumitru Mnerie, Dumitru Tucu, Titus Slavici – „Aspectele managementului calitatii în structurile educationale private din domeniul tehnic”, Buletinul Agir, ISSN-L 1224-7928, Online: ISSN 2247-3548, indexat BDI: INDEX COPERNICUS INTERNATIONAL, ACADEMIC KEYS, getCITED
15. Aurel Nanu, Titus Slavici, Alin Vasile Mnerie – „Rolul automatizarii în sporirea calitatii prelucrarilor pe utilaje destinate aplicarii tehnologiilor neconventionale” Buletinul AGIR, ISSN-L 1224-7928, Online: ISSN 2247-3548, BDI: INDEX COPERNICUS INTERNATIONAL, ACADEMIC KEYS, getCITED

D Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E. Brevete obținute în întreaga activitate

1.

Data: 12.06.2026

Semnătura:

A N E X A 4 . 1

Nume Prenume: Cosmina FLORICA

Gradul didactic: SL. dr. ing.

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: Mecanică

Departamentul: Ingineria Materialelor și Fabricației

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A Teza de doctorat

Cosmina Carmen Aldea (căs. Florica), *Contribuții privind managementul echipelor virtuale de proiect*, Universitatea Politehnica Timișoara, România, 2013.

B Cărți și capitole în cărți publicate în ultimii 10 ani

- [1] **Florica Cosmina Carmen**, ș.a., *INTRODUCERE ÎN UTILIZAREA CALCULATOARELOR*, Editura Fundației pentru cultură și învățământ “Ioan Slavici” Timișoara, 2019, ISBN 978-606-8480-64-0.
- [2] Groza Ioan-Vasile, **Florica Cosmina Carmen**, Florica Stelian, Matei Larisa, Sopon Mihai, Slavici Titus, *TOLERANȚE ȘI MĂSURĂRI. ELEMENTE DE PROIECTARE A PRECIZIEI DE PRELUCRARE*, Editura Politehnica Timișoara, 2021, ISBN: 978-606-35-0412-9.
- [3] **Florica Cosmina Carmen**, Popescu Francisc, *INOVAREA ÎN DOMENIUL ENERGIIILOR REGENERABILE. GHID*, Editura Fundației pentru cultură și învățământ “Ioan Slavici” Timișoara, 2023, ISBN: 978-606-8480-93-0.
- [4] **Florica Cosmina Carmen**, *GHID AFERENT OBȚINERII, VALIDĂRII ȘI PROTEJĂRII BREVETELOR*, Editura Fundației pentru cultură și învățământ “Ioan Slavici” Timișoara, 2023, ISBN: 978-606-8480-94-7.
- [5] **Florica Cosmina Carmen**, ș.a., *ÎNCERCĂRI EXPERIMENTALE. APLICAȚII PRACTICE*, Editura Politehnica Timișoara, 2025, ISBN: 978-606-35-0667-3.
- [6] **Florica Cosmina Carmen**, ș.a., *TOLERANȚE ȘI CONTROL DIMENSIONAL: APLICAȚII PRACTICE ȘI DE LABORATOR*, Editura Politehnica Timișoara, 2025, ISBN: 978-606-35-0647-5.
- [7] Titus Slavici, Stelian Florica, Alexandra Șuta, **Cosmina Florica**, Emma Abagiu Selner, Simina Mariș, *TEHNOLOGII DIGITALE ȘI INTELIGENȚĂ ARTIFICIALĂ: GHID COMPLET: AI, REȚELE, CLOUD, SECURITATE, APLICAȚII*, Editura Fundație - Universitate „Ioan Slavici” Timișoara, 2026, ISBN 978-630-6735-04-4.

C Lucrări indexate ISI/BDI publicate în ultimii 10 anii

- [1] Buta, Ioan; Paval, Cosmin; **Aldea (căș. Florica), Cosmina**; Feier, Anamaria; Banciu, Felicia; *Aplicații ale procedeu de fabricație aditivă prin depunere cu arc electric (WAAM)*. Revista Sudura, BDI: EBSCO, 2022, ISBN: 978-989-8565-23-5.
- [2] **Cosmina Carmen Florica**, Mihai Florea - *Improving thermal performance and longevity of tower solar power plant receivers using coating*. MakeLearn, TIIM & PIconf: Accelerated Innovation (AI): Sustainability for Better Humanity, 21-24 May 2025.
- [3] **Cosmina Florica**, Anamaria FEIER, Mircea VIȘESCU, Silvia HERNEA; *A review of the sustainability concept in manufacturing engineering and civil engineering*, ImanEE23, 2023;
- [4] **Cosmina Florica**, Andrei Dună, Lucian-Vasile Mihoc, Iulia Știrb, Valentin Gomoi, Ștefan Dună - *EVALUATION OF THE PERFORMANCE OF SPRINKLER FIRE EXTINGUISHING SYSTEMS IN COLD STORAGE USING THE DISTRIBUTION UNIFORMITY COEFFICIENT (DU)*. Annual Conference on Challenges of Contemporary Higher Education, 2025.
- [5] **Cosmina Florica**, Stelian Florica, Andrei Dună, Andreea Bozeșan, Florica Naghiu, Gabriela Mnerie - *AI TECHNOLOGIES THAT CAN SUPPORT EDUCATIONAL PROCESSES*. Annual Conference on Challenges of Contemporary Higher Education, 2025.
- [6] Feier, Anamaria; Buta, Ioan; **Florica, Cosmina**; Blaga, Lucian; *Optimization of Wire Arc Additive Manufacturing (WAAM) Process for the Production of Mechanical Components Using a CNC Machine*, MATERIALS, 2023, ISSN 1996-1944;
- [7] Lucian Vasile Mihoc, Ileana Mogoșanu, **Cosmina Carmen Florica**, Dumitru Mnerie, Doina Darvași, Simina Maris - *OPTIMISING REMOTE WORK THROUGH ARTIFICIAL INTELLIGENCE: A PERSPECTIVE OF THE SUSTAINABLE DEVELOPMENT OF ROMANIA*, 50th International Symposium "Actual tasks on Agricultural Engineering", 11 – 13 March, 2025, Opatija, Croatia.
- [8] Lucian Vasile Mihoc, Ștefan Duna, **Cosmina Carmen Florica**, Ionelia Boboc (Căș. Moloce), Doina Darvași, Titus Slavici - *CONTRIBUTIONS TO THE RESOLUTION OF ISSUES RELATING TO THE PERFORMANCE OF FIRE EXTINGUISHING SPRINKLER SYSTEMS*. 50th International Symposium "Actual tasks on Agricultural Engineering", 11 – 13 March, 2025, Opatija, Croatia.

D Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)**- Reviste**

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E Brevete obținute în întreaga activitate

1.

Data: 10.06.2026**Semnătura:**

A N E X A 4 . 1

Nume Prenume: Stan Daniel Voicu

Gradul didactic: conferențiar

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea de Mecanică

Departamentul: Ingineria Materialelor și Fabricației

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

1. în domeniul **Inginerie Industrială**, cu titlul „*Studiul activării ultrasonice a proceselor de injectare și extrudare a materialelor termoplastice*”, Universitatea Politehnica Timișoara /România, Centrul de Multiplicare UPT, ISBN: BUPT-MEC/STA 625.353, 205 pag., 1999, OMEN nr. 3337 /08.03.2000;
2. în domeniul **Materie condensată: Polimeri, Interfețe și Stări amorfă**, cu titlul „*Activation ultrasonique des thermoplastiques lors de la mise en oeuvre par injection et extrusion*” (rezumat în lb. franceză, teza în cotutela), Université de Science et Technologie du Languedoc Montpellier /France, Centrul de Multiplicare UPT, ISBN: BIUS-1999MON20228/MONT2-2744514, Catalogue SUDOC : www.sudoc.fr/067699391 (index BU Montpellier 2: TS 99.MON-228), 60 pag., 1999, diplomă MONT II nr. 2744514 /13.09.2001.

B. Cărți și capitole în cărți publicate în ultimii 10 ani

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Foltuț D., Buzdugan R.M., Pascal D., **Stan D.** - Iterative approach in the design of the optimal configuration for the injection system of a test plate from composite material, MATERIALS TODAY-PROCEEDINGS, vol. 45, pp. 4260-4263, special Issue for The 8th International Conference on Advanced Materials and Structures (AMS), part 5, Publisher ELSEVIER, 2021, WOS:000655647800006
2. **Stan D.** - Considerations on the drying of the raw material and consequences on the quality of the injected products, Materiale Plastice, vol. 57 (1), 2020, pp. 46-56, ISSN: 2668-8220, <https://doi.org/10.37358/MP.0.0.5311>, WOS:000528195000007, **ISI WEB**
3. Teușdea D., **Stan D.V.**, Vodă M., Lovasz E.C. - Study on the influence of recycled material on the tensile strength of HDPE products, 8th Int. Conf. on Modern Technologies in Industrial Engineering – MODTECH 2020, Constanța, June, 24-27, 2020, IOP Conference Series: Materials Science and Engineering, 2020, vol. 961 (1), paper 012119, ISSN: 1757-8981, DOI: 10.1088/1757-899X/916/1/012119 , WOS:000625330000119, **ISI Proceedings**
4. Pavel S., Dobosi I.S., **Stan D.**, Szava G.F. - The Efficiency and the Profitability of the Photovoltaic Panels as Generator for Household Electricity in the Region of Banat/Romania. Nearly Zero Energy Communities - CSE 2017. Springer Proceedings in Energy, 2018, pp. 421-433, Springer Cham. https://doi.org/10.1007/978-3-319-63215-5_30, **SPRINGER, Google Scholar**

5. Pavel S., Doboși S., **Stan D.**, Fischer-Szava G. - Media orară de strălucire a soarelui în Timișoara și energia electrică produsă de panourile fotovoltaice (engl.: The hourly average of sunshine in Timisoara and electricity produced by photovoltaic panels), *Revista Română de Inginerie Civilă*, ed. MatrixRom, Bucharest /Romania, Vol. 8, Issue. 3 /2017, pp. 205-215, **ProQuest, Google Scholar**
6. Pavel S., Pavel R., **Stan D.**, Mocan M.L. - Aspecte privind instalația electrică de iluminat general din unitățile medicale dentare, *Revista Dental Target*, Oct 2017, vol. 12, Issue 3, pp. 32-38, www.dentaltarget.ro, online since: dec. 2017, **EBSCO, Google Scholar**
7. Pavel S., **Stan D.** - Configurația și costul unui tablou electric pentru o instalație de panouri fotovoltaice în rețea, *Revista Stiință și Inginerie*, vol. A XVII-a Conferință internațională multidisciplinară "Profesorul Dorin Pavel - fondatorul hidroenergeticii românești, Sebeș /Romania, 2-3 June 2017, 6 pag., www.stiintasiinginerie.ro, ISSN 2067-7138, eISSN 2359-828X, **EBSCO, Google Scholar**

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

Reviste

1. **Stan D.** - The correction of the injected parts dimensional deviations during the manufacturing process, Scientific Bulletin of the „POLITEHNICA” University of Timișoara /Romania - Transactions on Mechanics, vol. 60(74), nr. 4/2016, ISSN 1224-6077

E. Brevete obținute în întreaga activitate

1. Turc C., Tulcan A., Oancă O., **Stan D.** - Dispozitiv portsculă, cu sistem de activare ultrasonică încorporat, pentru prelucrare prin așchiere, abrazare și eroziune ultrasonică, RO 128369-B1 /30.09.2022
2. **Stan D.**, Iclănzan T., Tulcan A., Cosma C., Dume A., Tulcan L. - Matriță și procedeu de injectare a pieselor miniaturale, RO 129443 B1 /2019
3. **Stan D.**, Iclănzan T., Tulcan A., Turc C., Cosma C., Dume A., Tulcan L. - Matriță cu activare ultrasonică, RO129156-A0 /30.01.2014
4. **Stan D.**, Iclănzan T. - Matriță de injectare cu canale calde, RO 123528 /30.04.2013
5. **Stan D.**, Iclănzan T. - Matriță de injectare, cu canale calde, cu duză finală activată ultrasonic, RO 123400 /28.02.2012
6. Iclănzan T., **Stan D.**, Seiculescu V., Tulcan A., Cosma C. - Matriță pentru microinjectare, RO 122811 /26.02.2010
7. **Stan D.**, Tulcan A., Cosma C. - Dispozitiv pentru uscarea cablurilor cu învelis polimeric extrudat, RO 121874 /30.06.2008
8. Iclănzan T., **Stan D.** - Procedeu și cap de extrudare cu activare ultrasonică, CBI RO-00014 /10.01.2007
9. Iclănzan T., **Stan D.** - Matriță de injectare cu canale calde activată ultrasonic, RO 118576 B /30.07.2003
10. Iclănzan T., **Stan D.** - Procedeu și cap de extrudare cu activare ultrasonică, RO 118400 B /30.05.2003

Data: 17.06.2026

Semnătura:

A N E X A 4 . 1

Nume Prenume: COȘA Alexandru-Viorel

Gradul didactic: Asistent

Instituția unde este titular: Universitatea Politenica Timișoara

Facultatea: Mecanică

Departamentul: IMF

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat**B. Cărți și capitole în cărți publicate în ultimii 10 ani**

1.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Improvement of the mechanical properties of Kagome structures using PUR foam matrices, DOI:10.1515/mt-2025-0429 (Q1)
2. The Influence of the Manufacturing Technology on the Mechanical Properties of Woven Jute Fiber-Reinforced Epoxy Composites, DOI: 10.3390/polym17121649 (Q1)
3. Development of Kagome-based functionally graded beams optimized for flexural loadings, DOI: 10.1016/j.euromechsol.2024.105474 (Q1)
4. Failure Locus of an ABS-Based Compound Manufactured through Photopolymerization, DOI: 10.3390/polym14183822 (Q1)
5. Development, optimization and evaluation of assembled Kagome-based sandwich structures, manufactured through conventional technologies, DOI: doi.org/10.1080/15376494.2025.2573185 (Q1)
6. A Study of Yielding and Plasticity of Rapid Prototyped ABS, DOI: 10.3390/math9131495 (Q1)
7. Multi-scale modelling of woven carbon fibre reinforced epoxy, DOI: 10.1016/j.matpr.2020.12.780
8. SIZE AND BUILD ORIENTATION EFFECT ON THE TENSILE PROPERTIES OF POLYMERS MANUFACTURED THROUGH STEREOLITHOGRAPHY (Q4)
9. INFLUENCE OF LAYER THICKNESS ON COMPRESSIVE BEHAVIOR OF KAGOME STRUCTURES (Q4)
10. INFLUENCE OF PHOTOPOLYMER RESIN MIXTURES ON PHYSICAL AND FRACTURE PROPERTIES (Q4)
11. Temperature Optimization in Extruding 3D Printing Filament Obtained from Recycled PET Bottles (Scopus), https://doi.org/10.1007/978-3-032-21865-0_6

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)**- Reviste**

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

1. Influence of curing time and temperature on the mechanical properties of resins manufactured through stereolithography, DOI: 10.1088/1757-899X/1319/1/012020
2. Effect of different parameters on mode I fracture toughness of resin samples manufactured by DLP, DOI: 10.1088/1757-899X/1319/1/012018
3. Experimental investigations regarding the anisotropic properties of pre-impregnated woven carbon fibre-reinforced epoxy resin, DOI: 10.1088/1757-899X/1319/1/012031
4. Parameter Optimization for Biocompatible Polyamide Used in Selective Laser Sintering (SLS), DOI: 10.1007/978-3-030-54136-1_32

E. Brevete obținute în întreaga activitate

1. EP4671046A1, Alexandru Viorel Cosa, Alex Daniel Hateg, Adrian Marciuc, Daniel Marius Pop, Norbi Toth Suru, LAMP FOR AN AMBIENT LIGHTING SYSTEM,
[https://patents.google.com/patent/EP4671046A1/en?q=\(cosa+alexandru-viorel\)&oq=cosa+alexandru-viorel](https://patents.google.com/patent/EP4671046A1/en?q=(cosa+alexandru-viorel)&oq=cosa+alexandru-viorel)
2. EP4749178. Alexandru Viorel Coșa, Marian Drăghci, Marius Gogonea, LENS UNIT FOR A LIGHTING DEVICE, LIGHTING DEVICE AND VEHICLE,
<https://patentscope.wipo.int/search/en/detail.jsf?docId=EP480329642>

Data:17.06.2026**Semnătura:**

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume: LINUL EMANOIL

Gradul didactic: PROFESOR

Instituția unde este titular: UNIVERSITATEA POLITEHNICA TIMIȘOARA

Facultatea: Mecanică

Departamentul: Mecanică si Rezistenta Materialelor

L I S T A**lucrărilor științifice în domeniul disciplinelor din postul didactic****A. Teza de doctorat**

E. Linul, Studiul factorilor care influențează proprietățile mecanice ale spumelor poliuretanică rigide, Editura Politehnica, ISBN: 978-606-554-326-3, 310 pagini, 2011.

B. Cărți si capitole în cărți publicate în ultimii 10 ani

- [1] R. Negru, D.A. Serban, **E. Linul**, Analiza structurilor mecanice cu Abaqus/CAE, Editia a II-a, Ed. Politehnica, Timisoara, ISBN: 978-606-35-0589-8, 227 pagini, 2024.
- [2] **E. Linul**, Spume metalice și compozite pe bază de spume metalice, Teza de Abilitare in domeniul Inginerie Mecanica, 255 pagini, Timisoara, 2022.
- [3] **E. Linul**, L. Marșavina, C. Vălean, Comportamentul la rupere al spumelor poliuretanică, Editura Politehnica, ISBN: 978-606-35-0281-1, 169 pagini, 2019.
- [4] **E. Linul**, S.V. Galațanu, D. Silaghi-Perju, Fundamente de Inginerie Mecanică. Solicitări Mecanice, Editura Politehnica, ISBN: 978-606-35-0279-8, 187 pagini, 2019.
- [5] **E. Linul**, D.A. Șerban, M. Hlușcu, L.D. Pirvulescu, S.V. Galațanu, M. Sava, I. Sisak, Rezistența Materialelor. Lucrări de Laborator, Editura Politehnica, ISBN: 978-606-35-0280-4, 109 pagini, 2019.
- [6] **E. Linul**, L. Marșavina, Experimental determination of mixed-mode fracture toughness for rigid polyurethane foams in Fracture at all Scales, G. Pluinage and L. Milovic (eds.), Springer International Publishing Switzerland, 221-237, 2017.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani**I. Lucrări publicate în Jurnale ISI**

- [1] **E Linul**, New insights into tailoring anisotropy-driven shell design for enhanced compression performance in additively manufactured structures, *Progress in Additive Manufacturing*, 1-16, 2025.
- [2] C Vălean, **E Linul** (Corresponding author), DK Rajak, Compressive performance of 3D-printed lightweight structures: Infill pattern optimization via Multiple-Criteria Decision Analysis method, *Results in Engineering* 25, 103936, 2025.

- [3] DY Pimenov, LRR da Silva, M Kuntoğlu, BS Abrão, LE dos Santos Paes, **E Linul** (Corresponding author), Review of advanced sensor system applications in grinding operations, *Journal of Advanced Research*, <https://doi.org/10.1016/j.jare.2025.01.013>, 2025.
- [4] S Parameshwara, KB Girisha, NB Pradeep, GC Manjunath Patel, **E Linul** (Corresponding author), SH Manjunath, Integrated optimization of mechanical alloying parameters for nanostructured Ti-Mg-Zr alloy using desirability function, educational competition, and grey wolf algorithms, *Results in Engineering* 26, 104748, 2025.
- [5] BNA Deep, S Rajanna, KN Krishnamurthy, GCM Patel, T Ganesha, GV Gnanendra Reddy, M Hasan, **E Linul** (Corresponding author), Ultrasonic assisted stir squeeze casting of AA5456/Al₂O₃-SiC-Gr-MoS₂ hybrid nanocomposites: microstructure and strengthening analysis, *Journal of Materials Research and Technology* 34, 1611-1635, 2025.
- [6] N Gadlegaonkar, PJ Bansod, A Lakshmikanthan, K Bhole, GC Manjunath Patel, **E Linul** (Corresponding author), Osprey algorithm-based optimization of selective laser melting parameters for enhanced hardness and wear resistance in AlSi10Mg alloy, *Journal of Materials Research and Technology* 36, 3556-3571, 2025.
- [7] HG Kouchaki, MRM Aliha, L Marsavina, **E Linul**, N Choupani, MM Mirsayar, T Sadowski, Mixed-mode tensile and in-plane shear fracture analysis for PUR foams using two sub-sized short bend beam configurations, *Theoretical and Applied Fracture Mechanics*, 105282, 2025.
- [8] C Vălean, SV Galațanu, NA Sîrbu, **E. Linul** (Corresponding author), The scale effect of FFF-printed Polylactic Acid parts under quasi-static compression, *Proceedings of the Romanian Academy, Series A*, Volume 26, Number 3/2025, pp. 269-275, 2025.
- [9] I Miron, C Vălean, **E. Linul** (Corresponding author), Infill Density Effect on the Flexural Behavior Of FFF-Based AM Polylactic Acid Parts, *Materiale Plastice*, 62(3), 1-9, 2025.
- [10] C. Vălean, M. Baban, D.K. Rajak, **E. Linul** (Corresponding author), Effect of multiple process parameters on optimizing tensile properties for material extrusion-based additive manufacturing, *Construction and Building Materials* 414, 135015, 2024.
- [11] C Vălean, L Marșavina, **E. Linul** (Corresponding author), Compressive behavior of additively manufactured lightweight structures: Infill density optimization based on energy absorption diagrams, *Journal of Materials Research and Technology* 33, 4952-4967, 2024.
- [12] D.I. Stoia, **E. Linul** (Corresponding author), Tensile, flexural and fracture properties of MEX-printed PLA-based composites, *Theoretical and Applied Fracture Mechanics* 104478, 2024.

- [13] **E Linul** (Corresponding author), SV Galatanu, L Marsavina, J Kováčik, Crushing behavior of closed-cell metallic foams: Anisotropy and temperature effects, *Journal of Materials Research and Technology* 30, 1436-1449, 2024.
- [14] R Binali, LRR da Silva, DY Pimenov, M Kuntoğlu, AR Machado, **E Linul** (Corresponding author), A review on progress trends of machining of Carbon Fiber Reinforced Plastics, *Journal of Materials Research and Technology* 33, 4332-4359, 2024.
- [15] C Vălean, IN Orbulov, A Kemény, **E Linul** (Corresponding author), Low-cycle compression-compression fatigue behavior of MEX-printed PLA parts, *Engineering Failure Analysis* 161, 108335, 2024.
- [16] SV Galațanu, L Marșavina, J Kováčik, **E Linul** (Corresponding author), Influence of density and loading speed on static and impact properties of closed-cell metallic foams, *Engineering Failure Analysis* 161, 108297, 2024.
- [17] BD Cioroagă, AV Socalici, VG Cioată, **E Linul**, I Hulka, IM Anghel, Influence of Submerged Arc Welding Current Intensity on the Mechanical Properties and Microstructure of Pressure Vessel P355N Steel, *Materials* 17 (14), 3520, 2024.
- [18] RS Nanjundaiah, SS Rao, K Praveenkumar, TR Prabhu, AK Shettigar, Manjunath Patel GC, **E Linul** (Corresponding author), Fretting wear behavior on LPBF processed AlSi10Mg alloy for different heat treatment conditions, *Journal of Materials Research and Technology* 30, 4330-4346, 2024.
- [19] C Vălean, **E Linul** (Corresponding author), G Palomba, G Epasto, Single and repeated impact behavior of material extrusion-based additive manufactured PLA parts, *Journal of Materials Research and Technology* 30, 1470-1481, 2024.
- [20] P. Linul, R. Bănică, O. Grad, **E Linul** (Corresponding author), N. Vaszilcsin (2024) Highly Electroconductive Metal-Polymer Hybrid Foams Based on Silver Nanowires: Manufacturing and Characterization, *Polymers*, 16 (5), 608.
- [21] BD Cioroagă, VG Cioată, AV Socalici, **E Linul**, I Hulka, IM Anghel, Optimization of submerged arc welding through voltage variation to achieve superior mechanical properties using P355N base material, *Journal of Engineering Sciences (Ukraine)*, 11(2), C42–C56, 2024.
- [22] MMR Hegde, NB Pradeep, S Parameshwara, MP GC, **E Linul** (Corresponding author), Synthesis and characterization of multi-walled carbon nanotube-reinforced Ti–Mg alloy prepared by mechanical alloying and microwave sintering, *Journal of Materials Research and Technology* 31, 1236-1249, 2024.

- [23]UL Ganesh, H Raghavendra, GCM Patel, A Lakshmikanthan, **E. Linul**, C Prakash, D Buddhi, B Singh (2022) Design and Development of Low Density and Refractory Based on Ni-Ti-Al-Li-Si Pentanary Equiatomic High Entropy Alloys: Microstructure and Phase Analysis, *International Journal on Interactive Design and Manufacturing*, 18, 2183-2198, 2024.
- [24]D.A. Șerban, **E. Linul** (Corresponding author), Fatigue behaviour of closed-cell polyurethane rigid foams, *Engineering Failure Analysis* 154, 107728, 2023.
- [25]K Balamurugan, V Shanmugam, G Palani, R Sundarakannan, T Sathish, **E. Linul** (Corresponding author), SA Khan, M Asif, Effect of TiC/RHA on solid particle erosion of Al6061 hybrid composites fabricated through a 2-step ultrasonic-assisted stir casting process, *Journal of Materials Research and Technology* 25, 4888-4900, 2023.
- [26]R Kumar, R Nadda, S Kumar, S Saboor, CA Saleel, M Abbas, A Afzal, **E. Linul** (Corresponding author), Convective heat transfer enhancement using impingement jets in channels and tubes: a comprehensive review, *Alexandria Engineering Journal* 70, 349-376, 2023.
- [27]K Devarajan, VVS Karuppanan, T Duraisamy, SK Bhavirisetty, G Laxmaiah, PK Chauhan, A Razak, M Asif, **E. Linul** (Corresponding author), Experimental investigation and characterization of friction stir spot-welded dissimilar aluminum copper metallic lap joints, *ACS Omega* 8 (39), 35706-35721, 2023.
- [28]R Jilte, A Afzal, Ü Ağbulut, S Shaik, SA Khan, **E. Linul**, M Asif, Battery thermal management of a novel helical channeled cylindrical Li-ion battery with nanofluid and hybrid nanoparticle-enhanced phase change material, *International Journal of Heat and Mass Transfer* 216, 124547, 2023.
- [29]E Cuce, PM Cuce, E Alvur, YN Yilmaz, S Saboor, I Ustabas, **E. Linul** (Corresponding author), M Asif, Experimental performance assessment of a novel insulation plaster as an energy-efficient retrofit solution for external walls: A key building material towards low/zero carbon buildings, *Case Studies in Thermal Engineering* 49, 103350, 2023.
- [30]L. Marșavina, C. Vălean, M. Mărghițaș, **E. Linul** (Corresponding author), N. Razavi, F. Berto, R. Brighenti (2022) Effect of the manufacturing parameters on the tensile and fracture properties of FDM 3D-printed PLA specimens, *Engineering Fracture Mechanics*, 274, 108766.
- [31]D.I. Stoia, **E. Linul** (Corresponding author), L. Marsavina (2022) Mixed-mode I/II fracture properties of selectively laser sintered polyamide, *Theoretical and Applied Fracture Mechanics*, 121, 103527.

- [32] H. Mozafari, F. Distefano, G. Epasto, L. Gu, **E. Linul** (Corresponding author), V. Crupi (2022) Design of an Innovative Hybrid Sandwich Protective Device for Offshore Structures, *Journal of Marine Science and Engineering*, 10 (10), 1385.
- [33] D.K. Rajak, P.H. Wagh, **E. Linul** (Corresponding author) (2022) A review on synthetic fibers for polymer matrix composites: performance, failure modes and applications, *Materials*, 15 (14), 4790.
- [34] D.M. Imani, M.R.M. Aliha, **E. Linul**, L. Marsavina (2022) A suitable mixed mode I/II test specimen for fracture toughness study of polyurethane foam with different cell densities, *Theoretical and Applied Fracture Mechanics*, 117, 103171.
- [35] V Patel, U Joshi, A Joshi, AD Oza, C Prakash, **E. Linul** (Corresponding author), RDSG Campilho, S Kumar, KK Saxena (2022) Strength evaluation of functionalized MWCNT-reinforced polymer nanocomposites synthesized using a 3D mixing approach, *Materials*, 15 (20), 7263.
- [36] P Prasanthi, SB Kondapalli, NKSR Morampudi, VVM Vallabhaneni, KK Saxena, KA Mohammed, **E. Linul** (Corresponding author), C Prakash, D Buddhi (2022) Elastic properties of jute fiber reinforced polymer composites with different hierarchical structures, *Materials*, 15 (19), 7032.
- [37] A Mehta, H Vasudev, S Singh, C Prakash, KK Saxena, **E. Linul** (Corresponding author), D Buddhi, J Xu (2022) Processing and advancements in the development of thermal barrier coatings: a review, *Coatings*, 12 (9), 1318.
- [38] K Shivalingaiah, V Nagarajaiah, CP Selvan, ST Kariappa, N Gowdru Chandrashekarappa, A Lakshmikanthan, MP Gowdru Chandrashekarappa, **E. Linul** (Corresponding author) (2022) Stir casting process analysis and optimization for better properties in Al-MWCNT-GR-based hybrid composites, *Metals*, 12 (8), 1297.
- [39] **E. Linul** (Corresponding author), D. Pietras, T. Sadowski, L. Marşavina, D.K. Rajak, J. Kovacic (2021) Crashworthiness performance of lightweight Composite Metallic Foams at high temperatures, *Composites Part A: Applied Science and Manufacturing*, 149, 106516.
- [40] **E. Linul** (Corresponding author), O. Khezzadeh (2021) Axial crashworthiness performance of foam-based composite structures under extreme temperature conditions, *Composite Structures*, 271, 114156.
- [41] N. Movahedi, **E. Linul** (Corresponding author) (2021) Radial crushing response of ex-situ foam-filled tubes at elevated temperatures, *Composite Structures*, 277, 114634.

- [42] D.K. Rajak, **E. Linul** (Corresponding author) (2021) Crushing response of Composite Metallic Foams: Density and High Strain Rate effects, *Journal of Alloys and Compounds*, 871, 159614.
- [43] D.I. Stoia, L. Marsavina, **E. Linul** (Corresponding author) (2021) Mode I critical energy release rate of additively manufactured polyamide samples, *Theoretical and Applied Fracture Mechanics*, 114, 102968.
- [44] D.K. Rajak, P.H. Wagh, **E. Linul** (Corresponding author) (2021) Manufacturing technologies of Carbon/Glass Fiber-Reinforced Polymer Composites and their properties: A Review, *Polymers*, 13(21), 3721.
- [45] G. Epasto, F. Distefano, H. Mozafari, **E. Linul**, V. Crupi (2021) Nondestructive evaluation of aluminium foam panels subjected to impact loading, *Applied Sciences*, 11 (3), 1148.
- [46] G. Epasto, F. Distefano, L. Gu, H. Mozafari, **E. Linul** (Corresponding author) (2020) Design and optimization of Metallic Foam Shell protective device against flying ballast impact damage in railway axles, *Materials & Design*, 196, 109120.
- [47] A.I. Bucur, **E. Linul**, B.O. Taranu (2020) Hydroxyapatite coatings on Ti substrates by simultaneous precipitation and electrodeposition, *Applied Surface Science*, 527, 146820.
- [48] D. Pietras, **E. Linul** (Corresponding author), T. Sadowski, A. Rusinek (2020) Out-of-plane crushing response of aluminum honeycombs in-situ filled with graphene-reinforced polyurethane foam, *Composite Structures*, 249, 112548.
- [49] **E. Linul** (Corresponding author), L. Marșavina, C. Vălean, R. Bănică (2020) Static and dynamic mode I fracture toughness of rigid PUR foams under room and cryogenic temperatures, *Engineering Fracture Mechanics*, 225, 106274.
- [50] T. Fiedler, K. Al-Sahlani, P.A. Linul, **E. Linul** (2020) Mechanical properties of A356 and ZA27 metallic syntactic foams at cryogenic temperature, *Journal of Alloys and Compounds*, 813, 152181.
- [51] **E. Linul**, L. Marsavina, D.I. Stoia (2020) Mode I and II fracture toughness investigation of Laser-Sintered Polyamide, *Theoretical and Applied Fracture Mechanics*, 106, 102497.
- [52] L. Marșavina, **E. Linul** (2020) Fracture toughness of rigid polymeric foams: A review, *Fatigue & Fracture of Engineering Materials & Structures*, 43(11), 2483-2514.
- [53] D.I. Stoia, L. Marsavina, **E. Linul** (Corresponding author) (2020) Mode I fracture toughness of polyamide and alumide samples obtained by Selective Laser Sintering additive process, *Polymers*, 12(3), 640.

- [54] O. Khezzadeh, O. Mirzaee, E. Emadoddin, **E. Linul** (Corresponding author) (2020) Anisotropic compressive behavior of metallic foams under extreme temperature conditions, *Materials*, 13(10), 2329.
- [55] A. Pugna, R. Negrea, **E. Linul**, L. Marsavina (2020) Is Fracture Toughness of PUR Foams a Material Property? A Statistical Approach, *Materials*, 13(21), 4868.
- [56] **E. Linul** (Corresponding author), D. Lell, N. Movahedi, C. Codrean, T. Fiedler (2019) Compressive properties of Zinc Syntactic Foams at elevated temperatures, *Composites Part B-Engineering*, 167, 122-134.
- [57] **E. Linul** (Corresponding author), L. Marșavina, P.A. Linul, J. Kovacik (2019) Cryogenic and high temperature compressive properties of Metal Foam Matrix Composites, *Composite Structures*, 209, 490-498.
- [58] D.K. Rajak, N.N. Mahajan, **E. Linul** (Corresponding author) (2019) Crashworthiness performance and microstructural characteristics of foam-filled thin-walled tubes under diverse strain rate, *Journal of Alloys and Compounds*, 775, 675-689.
- [59] D.K. Rajak, D.D. Pagar, P.L. Menezes, **E. Linul** (Corresponding author) (2019) Fiber-Reinforced Polymer composites: Manufacturing, properties, and applications, *Polymers*, 2019, 11(10), 1667.
- [60] D.I. Stoia, L. Marșavina, **E. Linul** (Corresponding author) (2019) Correlations between process parameters and outcome properties of Laser-Sintered Polyamide, *Polymers*, 11(11), 1850.
- [61] M.R.M. Aliha, S.S. Mousavi, A. Bahmani, **E. Linul**, L. Marsavina (2019) Crack initiation angles and propagation paths in polyurethane foams under mixed modes I/II and I/III loading, *Theoretical and Applied Fracture Mechanics*, 101, 152-161.
- [62] M. Vodă, C. Codrean, D. Chicot, V.A. Serban, I.D. Utu, **E. Linul**, D. Buzdugan (2019) Characterization of brazed joints by electrical resistance spot brazing with Nibased amorphous self-flux alloys, *Journal of Manufacturing Processes*, 37, 617-627.
- [63] D.I. Stoia, **E. Linul**, L. Marsavina (2019) Influence of Manufacturing Parameters on Mechanical Properties of Porous Materials by Selective Laser Sintering, *Materials*, 12(6), 871.
- [64] L. Marsavina, O. Pop, **E. Linul** (2019) Mechanical and fracture properties of particleboard, *Frattura ed Integrità Strutturale*, 47, 266-276.
- [65] **E. Linul** (Corresponding author), N. Movahedi, L. Marsavina (2018) The temperature and anisotropy effect on compressive behavior of cylindrical closed-cell aluminum-alloy foams, *Journal of Alloys and Compounds*, 740, 1172-1179.

- [66] M. Taherishargh, **E. Linul**, S. Broxtermann, T. Fiedler (2018) The mechanical properties of expanded perlite-aluminium syntactic foam at elevated temperatures, *Journal of Alloys and Compounds*, 737, 590-596.
- [67] **E. Linul** (Corresponding author), C. Vălean, P.A. Linul (2018) Compressive behavior of aluminum microfibers reinforced semi-rigid polyurethane foams, *Polymers*, 10(12), 1298.
- [68] M.R.M. Aliha, **E. Linul**, A. Bahmani, L. Marsavina (2018) Experimental and theoretical fracture toughness investigation of PUR foams under mixed mode I+III loading, *Polymer Testing*, 67, 75-83.
- [69] N. Movahedi, **E. Linul** (Corresponding author) (2018) Mechanical properties of Light Expanded Clay Aggregated (LECA) filled tubes, *Materials Letters*, 217, 194-197.
- [70] **E. Linul** (Corresponding author), N. Movahedi, L. Marsavina (2018) On the lateral compressive behavior of empty and ex-situ aluminum Foam-Filled Tubes at high temperature, *Materials*, 11(4), 554.
- [71] J. Kovacik, L. Marsavina, **E. Linul** (2018) Poisson's ratio of closed-cell aluminium foams, *Materials*, 11(10), 1904.
- [72] **E. Linul** (Corresponding author), D.A. Serban, L. Marsavina (2018) Influence of cell topology on mode I fracture toughness of cellular structures, *Physical Mesomechanics*, 21(2), 178-186.
- [73] N. Movahedi, **E. Linul** (Corresponding author), L. Marsavina (2018) The Temperature effect on the compressive behavior of closed-cell aluminum-alloy foams, *Journal of Materials Engineering and Performance*, 27(1), 99-108.
- [74] **E. Linul** (Corresponding author), N. Movahedi, L. Marsavina (2017) The temperature effect on the axial quasi-static compressive behavior of ex-situ aluminum foam-filled tubes, *Composite Structures*, 180, 709-722.
- [75] **E. Linul** (Corresponding author), L. Marsavina, J. Kováčik (2017) Collapse mechanisms of metal foam matrix composites under static and dynamic loading conditions, *Materials Science & Engineering A-Structural Materials Properties Microstructure and Processing*, 690, 214-224.
- [76] **E. Linul** (Corresponding author), D.A. Șerban, L. Marsavina, T. Sadowski (2017) Assessment of collapse diagrams of rigid polyurethane foams under dynamic loading conditions, *Archives of Civil and Mechanical Engineering*, 17(3), 457-466.
- [77] **E. Linul**, D.A. Șerban, L. Marsavina, J. Kovacik (2017) Low-cycle fatigue behaviour of ductile closed-cell aluminium alloy foams, *Fatigue & Fracture of Engineering Materials & Structures*, 40(4), 597-604.

- [78] N. Movahedi, **E. Linul** (Corresponding author) (2017) Quasi-static compressive behavior of the ex-situ aluminum-alloy foam-filled tubes under elevated temperature conditions, *Materials Letters*, 206, 182-184.
- [79] L. Marsavina, F. Berto, R. Negru, D.A. Serban, **E. Linul** (2017) An engineering approach to predict mixed mode fracture of PUR foams based on ASSED and micromechanical modeling, *Theoretical and Applied Fracture Mechanics*, 91, 148-154.
- [80] **E. Linul**, L. Marsavina, J. Kovacik, T. Sadowski (2017) Dynamic and quasi-static compression tests of closed-cell aluminium alloy foams, *Proceedings of the Romanian Academy Series A-Mathematics Physics Technical Sciences Information Science*, 18(4), 361-369.
- [81] L. Marsavina, J. Kovacik, **E. Linul** (2016) Experimental validation of micromechanical models for brittle aluminium alloy foam, *Theoretical and Applied Fracture Mechanics*, 83, 11-18.
- [82] L. Marsavina, D.M. Constantinescu, **E. Linul**, F.A. Stuparu, D.A. Apostol (2016) Experimental and numerical crack paths in PUR foams, *Engineering Fracture Mechanics*, 167, 68-83.
- [83] D.A. Apostol, F. Stuparu, D.M. Constantinescu, L. Marsavina, **E. Linul** (2016) Experimental and XFEM Analysis of Mode II Propagating Crack in a Polyurethane Foam, *Materiale Plastice*, 53(4), 685-688.
- [84] D.A. Apostol, F. Stuparu, D.M. Constantinescu, L. Marsavina, **E. Linul** (2016) Crack Length Influence on Stress Intensity Factors for the Asymmetric Four-point Bending Testing of a Polyurethane Foam, *Materiale Plastice*, 53(2), 280-282.
- [85] J. Kováčik, J. Jerz, N. Mináriková, L. Marsavina, **E. Linul** (2016) Scaling of compression strength in disordered solids: metallic foams, *Frattura ed Integrità Strutturale*, 36, 55-62.

II. Lucrări publicate în jurnale ISI-Proceedings

- [1] SV Galatanu, **E. Linul**, J. Kováčik, L. Marsavina, The anisotropy behavior of metallic foams under Charpy impact tests, *Journal of Physics: Conference Series* 2692 (1), 012005, 2024.
- [2] C. Vălean, C. Șoșdean, L. Marșavina, **E. Linul**, Mechanical characterization of lightweight foam-based sandwich panels, *Materials Today: Proceedings*, 45, 4166-4170, 2021.
- [3] C. Vălean, L. Marșavina, M. Mărghițaș, **E. Linul**, J. Razavi, F. Berto, Effect of manufacturing parameters on tensile properties of FDM printed specimens, *Procedia Structural Integrity*, 26, 313-320, 2020.
- [4] C. Vălean, L. Marșavina, M. Mărghițaș, **E. Linul**, J. Razavi, F. Berto, R. Brighenti, The effect of crack insertion for FDM printed PLA materials on Mode I and Mode II fracture toughness, *Procedia Structural Integrity*, 28, 1134-1139, 2020.
- [5] L. Marsavina, O. Pop, **E. Linul**, Mixed mode fracture toughness of particleboard, *Procedia Structural Integrity*, 9, 47-54, 2018.

III. Lucrări publicate in jurnale BDI

- [1] C Öhl, M Rus, DF Mădroane, I Duma, SV Galatanu, **E Linul**, The Influence of Thread Length and Tightening Torque of the M8/M12 Bolts on the Vibration Fixture Response, *Advanced Engineering Forum* 53, 113-118, 2024.
- [2] R Bercuci, L Marsavina, J Kováčik, **E Linul**, Compressive behavior of closed-cell metal foams under cryogenic conditions, *IOP Conference Series: Materials Science and Engineering* 1319 (1), 012019, 2024.
- [3] MV Baban, AV Coșa, **E Linul**, Effect of different parameters on mode I fracture toughness of resin samples manufactured by DLP, *IOP Conference Series: Materials Science and Engineering* 1319 (1), 012018, 2024.
- [4] C Öhl, E Linul, SV Galatanu, Vibration behaviour of additively manufactured AlSi10Mg specimens, *IOP Conference Series: Materials Science and Engineering* 1319 (1), 012027, 2024.
- [5] E Linul, C Vălean, AI Rusu, Compression behavior of ex-situ PVC foam-filled tubes, *IOP Conference Series: Materials Science and Engineering* 1319 (1), 012011, 2024.
- [6] SV Galațanu, FN Serralha, MP Mărghițaș, C Șoșdean, CF Popa, **E Linul**, L Marșavina, Mechanical behavior of recycled FDM printed parts from PETG in the circular economy, *Procedia Structural Integrity* 56, 138-143, 2024.
- [7] C Vălean, DI Stoia, C Opreș, **E Linul**, Effect of Fillers on Mechanical Properties of FDM printed PLA Components, *Procedia Structural Integrity* 56, 97-104, 2024.
- [8] BD Cioroagă, **E Linul**, VG Cioată, Effect of welding current intensity on tensile strength of pressure vessel steel submerged welded joints, *Acta Technica Corviniensis-Bulletin of Engineering* 16 (2), 65-68, 2023.
- [9] BD Cioroagă, **E Linul**, VG Cioată, Effect of welding speed on tensile strength of pressure vessel steel submerged welded joints, *Annals of the Faculty of Engineering Hunedoara* 21(1), 93-96, 2023.
- [10] BD Cioroagă, **E Linul**, VG Cioată, Effect of welding current voltage on tensile strength of pressure vessel steel submerged welded joints, *Annals of the Faculty of Engineering Hunedoara* 21(1), 39-42, 2023.
- [11] DF Mădroane, **E Linul**, SV Galațanu, Numerical analysis of a glass–Adhesive–Steel bonding, *Materials Today: Proceedings* 78, 314-318, 2023.
- [12] J Kováčik, J Jerz, A Gopinathan, F Simančík, L Marsavina, **E Linul**, Effect of sample shape on compression behavior of aluminum foams, *Materials Today: Proceedings* 78, 308-313, 2023.
- [13] CF Popa, T Krausz, SV Galatanu, **E Linul**, L Marsavina, Numerical and experimental study for FDM printed specimens from PLA under IZOD impact tests, *Materials Today: Proceedings* 78, 326-330, 2023.
- [14] L Marsavina, DI Stoia, **E Linul**, Mixed modes crack paths in SCB specimens obtained via SLS, *Procedia Structural Integrity* 39, 801-807, 2022.
- [15] L. Marșavina, D.I. Stoia, **E. Linul**, Fracture toughness in additive manufacturing by selective laser sintering: an overview, *Material Design and Processing Communications*, e254, 1-7, 2021.
- [16] **E Linul**, L. Marsavina, J. Kovacik, Compressive behavior and energy absorption capability of reinforced closed-cell aluminum alloy foams, *IOP Conference Series: Materials Science and Engineering* 416, 012079, 2018.
- [17] **E Linul**, P.A. Linul, C. Valean, L. Marsavina, D. Silaghi-Perju, Manufacturing and compressive mechanical behavior of reinforced Polyurethane Flexible (PUF) foams, *IOP Conference Series: Materials Science and Engineering* 416, 012053, 2018.

- [18] **E. Linul**, L. Marsavina, M. Georgescu, The anisotropy effect of closed-cell Polyisocyanurate (PIR) Rigid foam under quasi-static compression loads, IOP Conference Series: Materials Science and Engineering 416, 012037, 2018.
- [19] **E. Linul**, K. Korniejenco, D.A. Șerban, R. Negru, L. Marșavina, M. Łach, J. Mikuła, Quasi-static mechanical characterization of lightweight fly ash-based geopolymer foams, IOP Conference Series: Materials Science and Engineering 416, 012102, 2018.
- [20] C. Vălean, **E. Linul**, Comparative study of plastic strain accumulations at thermal cycles for solder alloys, IOP Conference Series: Materials Science and Engineering 416, 012092, 2018.
- [21] C. Ghiani, **E. Linul**, M.C. Porcu, L. Marsavina, N. Movahedi, F. Aymerich, Metal foam-filled tubes as plastic dissipaters in earthquake-resistant steel buildings, IOP Conference Series: Materials Science and Engineering 416, 012051, 2018.
- [22] **E. Linul**, L. Marsavina, T. Sadowski, Effect of density, anisotropy and temperature on dynamic compression behavior of PUR foams, Romanian Journal of Technical Sciences-Applied Mechanics, 61 (2), 176-186, 2016.
- [23] D.A. Serban, **E. Linul**, S. Sarandan, L. Marsavina, Development of Parametric Kelvin Structures with Closed Cells, Solid State Phenomena, 254, 49-54, 2016
- [24] L. Marsavina, **E. Linul**, Multiscale fracture of cellular materials, International Journal of Terraspace Science and Engineering, Volume 8, Issue 2, 75-82, 2016.
- [25] D.A. Apostol, D.M. Constantinescu, L. Marsavina, **E. Linul**, Particularities of the asymmetric four-point bending testing of polyurethane foams, UPB Scientific Bulletin, Series D: Mechanical Engineering, Vol. 78, Iss. 2, pp. 57-66, 2016.
- [26] L. Marsavina, **E. Linul**, T. Voiconi, R. Negru, Experimental Investigations and Numerical Simulations of Notch Effect in Cellular Plastic Materials, IOP Conference Series: Materials Science and Engineering, 123(1), 012060, 2016.

D. Lucrări publicate în ultimii 10 ani în reviste și volume de conferințe cu referenți (neindexate)

I. Reviste

- [1] MV Baban, AV Coșa, **E. Linul**, Influence of Photopolymer Resin Mixtures on Physical and Fracture Properties, Acta Technica Napocensis, Series: Applied Mathematics, Mechanics, and Engineering, 1-8, 2025.
- [2] I Miron, AA Medruț, **E. Linul**, Effect of Infill Density and Outer Shell on Flexural Behavior of FFF Printed PLA Samples, Proceedings of The 15th International Conference on Innovative Technologies for Joining Advanced Materials, 8 pages, 2024.
- [3] RP Bercuci, MV Baban, **E. Linul**, Effect of Printing Parameters on Mode I Fracture Toughness of FFF Printed PLA Samples, Proceedings of The 15th International Conference on Innovative Technologies for Joining Advanced Materials, 8 pages, 2024.
- [4] **E. Linul**, L. Marsavina, J. Kovacik, Damage investigation of composite sandwich beams subjected to low-velocity impact, 14th International Conference on Fracture (ICF 2017), Rhodes (Grece), 18-23 June 2017, Published in: International Conference on Fracture, 2, 462-463, 2018.

II. Selecție cu maximum 20 lucrări în volume de conferințe

- [1] SV Galatanu, **E Linul**, J Kováčik, L Marsavina, The anisotropy behavior of metallic foams under Charpy impact tests, 7th International Conference of Engineering Against Failure, Spetses Island, Greece, June 21-23, 2023.
- [2] M Baban, **E Linul**, Effect of printing orientation on mode I fracture toughness of DLP printed UV sensitive resin specimens, International Conference on Structural Integrity and Reliability of Advanced Materials obtained through Additive Manufacturing – SIRAMM23, Timisoara, Romania, 8th - 11th March 2023.
- [3] DI Stoia, C Vălean, **E Linul**, The effect of PLA fillers on mechanical properties of FDM components, International Conference on Structural Integrity and Reliability of Advanced Materials obtained through Additive Manufacturing – SIRAMM23, Timisoara, Romania, 8th - 11th March 2023.
- [4] C Vălean, M Baban, **E Linul**, Tensile properties of 3D-printed PLA specimens: optimization of FDM process parameters, International Conference on Structural Integrity and Reliability of Advanced Materials obtained through Additive Manufacturing – SIRAMM23, Timisoara, Romania, 8th - 11th March 2023.
- [5] SV Galațanu, MP Mărghițaș, **E Vălean**, C Șoșdean, CF Popa, E Linul, L Marșavina, Mechanical Behaviour of Recycled FDM Printed Parts from PETG in the Circular Economy, International Conference on Structural Integrity and Reliability of Advanced Materials obtained through Additive Manufacturing – SIRAMM23, Timisoara, Romania, 8th - 11th March 2023.
- [6] **E Linul**, M Baban, SV Galatanu, Effect of manufacturing parameters on the impact fracture properties of DLP 3D-printed specimens, 3rd International Workshop on Reliability and Design of Additively Manufactured Materials – RdAMM2, Belgrade, Serbia, 4th –6th October 2022,
- [7] RP Bercuci, L Marsavina, J Kováčik, SV Galatanu, **E Linul**, The Influence of Anisotropy on the Quasi-Static Compressive Behavior of Closed-Cell Aluminum Foam, 9th International Conference on Advanced Materials and Structures - AMS'22, Timisoara, Romania, 16-18 June 2022.
- [8] CI Zub, NA Sirbu, **E Linul**, SV Galatanu, The behaviour of EDPM specimens during strain tests Dohan Vlad, 9th International Conference on Advanced Materials and Structures - AMS'22, Timisoara, Romania, 16-18 June 2022.
- [9] M Baban, SV Galatanu, **E Linul**, Mode I Fracture Toughness of DLP Printed PLA Specimens, 9th International Conference on Advanced Materials and Structures - AMS'22, Timisoara, Romania, 16-18 June 2022.
- [10] E Valean, G Florea, B Dragos-Stefan, SV Galatanu, **E Linul**, Tensile properties of carbon fiber - reinforced PLA composites manufactured by FDM, 9th International Conference on Advanced Materials and Structures - AMS'22, Timisoara, Romania, 16-18 June 2022.
- [11] DF Madroane, SV Galatanu, L Marsavina, **E Linul**, A Mini-Review on Mechanical Behavior of Recycled FDM Printed Parts, 9th International Conference on Advanced Materials and Structures - AMS'22, Timisoara, Romania, 16-18 June 2022.

- [12] **E. Linul**, M Baban, Tensile properties of FDM printed PLA specimens: influence of printing parameters, 2nd International Workshop on Structural Integrity of Additively Manufactured Materials, Brno, Czech Republic, 4th - 5th February 2022.
- [13] **E. Linul**, RP Bercuci, Mode I fracture toughness of FDM printed PLA specimens: influence of printing parameters, 2nd International Workshop on Structural Integrity of Additively Manufactured Materials, Brno, Czech Republic, 4th - 5th February 2022.
- [14] P.A. Linul, R. Banica, O.A. Grad, **E. Linul**, N. Vaszilcsin, Highly electroconductive porous structures coated with silver nanowires, TIM20-21 Physics Conference, Timisoara, Romania, 11-13 November 2021.
- [15] M.R.M. Aliha, A. Bahmani, **E. Linul**, L. Marsavina, S.S. Mousavi, A. Mousavi, Investigation of fracture initiation angle and propagation path for PUR foams under mixed mode I/III loading, The 6th International Conference on CRACK PATHS (CP 2018), Verona (Italy), 19-21 September 2018.
- [16] **E. Linul**, L. Marsavina, P.A. Linul, J. Kovacik, T. Sadowski, A. But, Cryogenic and high temperature behavior of metal foam matrix composites (MFMCs) under static and impact compression loads, 21st International Conference on Composite Structures, (ICCS21), Bologna, Italy, 4-7 September 2018.
- [17] **E. Linul**, L. Marsavina, Influence of anisotropy and loading speed on compressive behaviour of glass foam, Proceedings of the 7th International Conference on Advanced Materials and Structures (AMS 2018), Timisoara, Romania, 28 - 31 March 2018.
- [18] **E. Linul**, L. Marsavina, C. Codrescu, Fracture toughness investigation of Polyurethane Rigid (PU) foams using Single Edge Cracked (SEC) specimens, Proceedings of the 7th International Conference on Advanced Materials and Structures (AMS 2018), Timisoara, Romania, 28 - 31 March 2018.
- [19] **E. Linul**, D.A. Șerban, L. Marșavina, J. Kovacik, Fatigue behaviour of ductile closed-cell aluminium alloy foams, The 16th International Conference on New Trends in Fatigue and Fracture – NT2F16, Dubrovnik, Croatia, May 24 – 27, 2016.

E. Brevete obținute în întreaga activitate

- [1] K Bharti, N Kumar, LA Kumaraswamidhas, **E. Linul**, P Prakash, P Kumari, Design and Development of Humanoid Body Temperature and Oxygen Saturation Monitor Sensor-Based Technology Writing Pen, Patent Application No: 202531014686, TEMP/E1/17289/2025-KOL.
- [2] DK Rajak, **E. Linul**, Faucet tap design (FTD) and fabrication method for fluid and gases, The Patent Office India, Journal No. 29/2019, Application No. 201921020711 A, Dated 19/07/2019.

Data: 10.11.2025

Semnătura:

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume: Herișanu Nicolae

Gradul didactic: Profesor

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: Mecanică

Departamentul: Mecanică și Rezistența Materialelor

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Contributii privind studiul vibratiilor la masini unelte, Universitatea Politehnica Timisoara, 1999

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. V. Marinca, **N. Herișanu**, B.Marinca - *Optimal Auxiliary Functions Method for Nonlinear Dynamical Systems*, Springer Verlag, 2021
2. **N.Herisanu**, *Fundamente de mecanica*, Ed. Electronica, 2020

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. **N. Herișanu**, V.Marinca, Approximate Analytical Solutions to Jerk Equations, Springer Proceedings in Mathematics & Statistics, ISSN 2194-1009, vol.182, 2016, pp.169-176
2. V.Marinca, **N. Herișanu**, The Oscillator with Linear and Cubic Elastic Restoring Force and Quadratic Damping, Springer Proceedings in Mathematics & Statistics, ISSN 2194-1009, vol.182, 2016, pp.215-224
3. **N. Herișanu**, V.Marinca, Nonlinear Dynamics of a Wind Turbine Permanent Magnet Generator Analytic Solution of the Static Pull-in Instability in MEMS Considering Casimir Force, 15-th International Conference of Numerical Analysis and Applied Mathematics – 2017, AIP Conference Proceedings
4. V. Marinca, **N. Herisanu**, Viscous Flow of an Incompressible Fluid over a Curved Stretching Surface, 15-th International Conference of Numerical Analysis and Applied Mathematics – 2017, AIP Conference Proceedings
5. **N. Herișanu**, V.Marinca, Optimal homotopy asymptotic method to large post-buckling deformations of MEMS, International Conference on Engineering Vibration - Sofia, Bulgaria, 4-7 September 2017 - ICoEV 2017
6. V.Marinca, **N. Herișanu**, The nonlinear thermomechanical vibration of a functionally graded beam on Winkler-Pasternak foundation, International Conference on Engineering Vibration - Sofia, Bulgaria, 4-7 September 2017 - ICoEV 2017

7. **N. Herișanu**, V. Marinca, Free Oscillations of Euler-Bernoulli Beams on Nonlinear Winkler-Pasternak Foundation, Springer Proceedings in Physics Vol. 198 pp. 41-48, 2018
8. V. Marinca, **N. Herișanu**, Vibration of Nonlinear Nonlocal Elastic Column with Initial Imperfection, Springer Proceedings in Physics Vol. 198, pp. 49-56, 2018
9. **N. Herișanu**, V. Marinca, G. Madescu, F. Dragan: Dynamic Response of a Permanent Magnet Synchronous Generator to a Wind Gust. Energies, Vol. 12(5), Article Number 915 (2019)
10. **N. Herișanu**, V. Marinca, G. Madescu: Application of the Optimal Auxiliary Functions to a Permanent Magnet Synchronous Generator. International Journal of Nonlinear Sciences and Numerical Simulation, Vol.20(3-4) Pag. 399-406 (2019)
11. **N. Herișanu**, V. Marinca, Optimal homotopy asymptotic method in the study of energy harvesting problems, AIP Conference Proceedings, vol. 2116, 300002 (2019).
12. V. Marinca, **N. Herișanu**, Optimal homotopy asymptotic method for polytropic spheres of the Lane-Emden type equation, AIP Conference Proceedings, vol. 2116, 300003, (2019)
13. V. Marinca, **N. Herișanu**: Construction of Analytic Solution to Axisymmetric Flow and Heat Transfer on a Moving Cylinder, SYMMETRY, ISSN 2073-8994, Vol. 12(8), Article Number 1335 (2020)
14. **N. Herișanu**, V. Marinca: An Efficient Analytical Approach to Investigate the Dynamics of a Misaligned Multirotor System. MATHEMATICS Vol. 8(7), Article Number 1083 (2020)
15. V. Marinca, **N. Herișanu**: Optimal Auxiliary Functions Method for a Pendulum Wrapping on Two Cylinders. MATHEMATICS Vol. 8(8), Article Number 1364 (2020)
16. **N. Herișanu**, V. Marinca: An approximate analytical solution of transversal oscillations with quintic nonlinearities. Springer Proceedings in Physics, vol.251, pp. 41-50, 2020
17. V. Marinca, **N. Herișanu**: Optimal Auxiliary Functions Method for Nonlinear Vibration of Doubly Clamped Nanobeam Incorporating the Casimir Force. Springer Proceedings in Physics, vol.251, pp. 51-58, 2020
18. D. Cveticanin, **N. Herișanu**, I. Biro, M. Zukovic, L. Cveticanin, Vibration of the biomass boiler tube excited with impact of the cleaning device, MATHEMATICS Vol. 8(9), Article Number 1519 (2020)
19. **N. Herișanu**, V. Marinca, Analytic approximate solutions to electrically actuated MEMS, AIP Conference Proceedings, 2293, 270002 (2020)
20. V. Marinca, **N. Herișanu**, Incompressible boundary layer flow of nanofluid over a convectively heated stretching sheet, AIP Conference Proceedings, 2293, 270003 (2020)
21. Stoia, D.I., Vigar, C., Nicoara, A., **N. Herișanu**, Angular Momentum About the Total Body Center of Mass Computed at Different Speeds, Springer Proceedings in Physics, 251, pp. 227-233, 2021
22. V. Marinca, **N. Herișanu**, Optimal Auxiliary Functions Method for Nonlinear Vibration of Doubly Clamped Nanobeam Incorporating the Casimir Force, Springer Proceedings in Physics, 251, pp. 51-58, 2021
23. **N. Herișanu**, Marinca, V., Chilibaru-Opritescu, C, An Approximate Analytical Solution of Transversal Oscillations with Quintic Nonlinearities, Springer Proceedings in Physics, 251, pp. 41-49, 2021

24. **N. Herișanu**, V. Marinca, An effective analytical approach to nonlinear free vibration of elastically actuated microtubes, *MECCANICA*, 56(4), pp. 813-823, 2021
25. **N. Herișanu**, V. Marinca, A solution procedure combining analytical and numerical approaches to investigate a two-degree-of-freedom vibro-impact oscillator, *Mathematics*, 9(12),1374, 2021
26. **N. Herișanu**, V. Marinca, Analytical study of nonlinear vibration in a rub-impact jeffcott rotor, *Energies*, 14(24),8298, 2021
27. Stoia, A., Stoia, D.I., Vigar, C., **N. Herișanu**, Three Segments Model for Computing Angular Momentum of Lower Limb in Gait, *Springer Proceedings in Physics*, 274, pp. 173-179, 2022
28. V. Marinca, **N. Herișanu**, Impact of Piecewise Energy Harvester System of Bistable Beam with Hertzian Contact Force, *Springer Proceedings in Physics*, 274, pp. 38-47, 2022
29. Bacria, V., **N. Herișanu**, Chilibaru-Opratescu, C., Protecting Residential Areas Against Noise Generated by Car Wash Units. A Case Studym, *Springer Proceedings in Physics*, 274, pp. 127-138, 2022
30. **N. Herișanu**, V. Marinca, Preliminary Results on a New Semi-Analytical Technique for the Study of Vibro-Impact Problems, *Springer Proceedings in Physics*, 274, pp. 56-63, 2022
31. V. Marinca, **N. Herișanu**, Approximate Analytical Solutions to Nonlinear Oscillations of Horizontally Supported Jeffcott Rotor, *Energies*, 15(3),1122, 2022
32. V. Marinca, **N. Herișanu**, Dynamics of a Piezoelectric Cantilever for Energy Harvesting, *Conference Proceedings*, 2425,310002, 2022
33. Bleoju, C., Chilibaru-Opratescu, C., **N. Herișanu**, An optimal analytical solution to a simple pendulum with air resistance, *AIP Conference Proceedings*, 2425,310005, 2022
34. Nicoara, A., Stoia, D.L., Chilibaru-Opratescu, C., **N. Herișanu**, A Biodynamic Multibody System. OHAM Solution , *AIP Conference Proceedings*, 2425,310007, 2022
35. **N. Herișanu**, V. Marinca, Oscillations of a Nonlinear Energy Harvester, *Conference Proceedings*, 2425,310004, 2022
36. Cveticanin, L., **N. Herișanu**, Ninkov, I., Jovanovic, M. New Closed-Form Solution for Quadratic Damped and Forced Nonlinear Oscillator with Position-Dependent Mass: Application in Grafted Skin Modeling, *Mathematics*, 10(15),2706, 2022
37. **N. Herișanu**, Marinca, B., Marinca, V., Dynamics of the Vibro-Impact Nonlinear Damped and Forced Oscillator under the Influence of the Electromagnetic Actuation, *Mathematics*, 10(18),3301, 2022
38. **N. Herișanu**, Marinca, B., Marinca, V., Nonlinear Vibration of Double-Walled Carbon Nanotubes Subjected to Mechanical Impact and Embedded on Winkler–Pasternak Foundation, *Materials*, 15(23), 8599, 2022
39. **Herisanu, N.**; Marinca, B.; Cveticanin, L.; Marinca, V. Analysis of the Vibro-Impact Nonlinear Damped and Forced Oscillator in the Dynamics of the Electromagnetic Actuation, *Mathematics*, 11(9),2194, 2023
40. **Herisanu, N.**; Marinca, B.; Marinca, V. Longitudinal–Transverse Vibration of a Functionally Graded Nanobeam Subjected to Mechanical Impact and Electromagnetic Actuation, *Symmetry*, 15(7), 1376, 2023

41. Jurca, L.; Vigar, C.; Chilibaru-Opritu, C.; **Herisanu, N.** An Analytical Approach to a Simple Nonlinear Model of Vocal Fold, AIP Conference Proceedings, 2849, 1, 290006, 2023
42. Stoia, A.; Stoia, D.I.; **Herisanu, N.**, An Improved Solution to a Biodynamic Multibody System, AIP Conference Proceedings, 2849, 1, 290005, 2023
43. **Herisanu, N.**; Marinca, V. On the Autonomous Modified Vander Pol Oscillator, AIP Conference Proceedings, 2849, 1, 290001, 2023
44. Marinca, B.; **Herisanu, N.**; Marinca, V. Analytical solutions for solving unsteady flow of gas through a porous medium by using auxiliary functions method, Journal of Computational and Applied Mathematics, 432, 115296, 2023
45. Marinca, B.; **Herisanu, N.**; Marinca, V. Investigating nonlinear forced vibration of functionally graded nanobeam based on the nonlocal strain gradient theory considering mechanical impact, electromagnetic actuator, thickness effect and nonlinear foundation, European Journal of Mechanics, A/Solids, 102, 105119, 2023
46. **Herisanu, N.**; Marinca, V., Effect of Mechanical Impact and Electromagnetic Actuation on the Nonlinear Vibration of a Beam, Springer Proceedings in Physics, 302, 19-28, 2024
47. Marinca, V.; Chilibaru-Opritu, C.; **Herisanu, N.**, Nonlinear Forced Vibration of an Axially Functionally Graded Beam Under Combined Effects of an Electromagnetic Actuator and Mechanical Impact, Springer Proceedings in Physics, 302, 39-48, 2024
48. Marinca, V.; Marinca, B.; **Herisanu, N.**, Study of heat transfer in MHD viscoelastic fluid of second grade over a stretching porous sheet with electromagnetic effects and nonuniform source/sink, Journal of Computational and Applied Mathematics, 439, 115601, 2024
49. **Herisanu, N.**; Marinca, B.; Marinca, V. An Approximate Solution in the Nonlinear Dynamics of an Electromagnetically-Actuated Cantilever Beam, AIP Conference Proceedings, 3094, 390001, 2024
50. Jurca, L.; Vigar, C.; **Herisanu, N.** Experimental Investigation on Acoustic Parameters in Speech Analysis for Patients Diagnosed with Laryngeal Disorders, Romanian Journal of Acoustics and Vibration, 21, 2, 2024
51. **Herisanu, N.**; Marinca, B.; Marinca, V. On the Nonlinear Forced Vibration of the Magnetostrictive Laminated Beam in a Complex Environment, Mathematics, 12, 3836, 2024
52. **Herisanu, N.**; Marinca, B.; Marinca, V. Nonlinear Dynamics of an Electromagnetically Actuated Cantilever Beam Under Harmonic External Excitation, Applied Sciences (Switzerland), 14(22), 10335, 2024
53. **Herisanu, N.**; Marinca, B.; Marinca, V. Dynamic Analysis of a Uniform Microbeam Resting on a Nonlinear Foundation Considering its Curvature Subjected to a Mechanical Impact and Electromagnetic Actuation, Micromachines, 15(8), 969, 2024
54. **Herisanu, N.**; Marinca, V.; Chilibaru-Opritu, C. Nonlinear Oscillations of an Electromagnetically-Actuated Beam in the Presence of Van der Waals Force, AIP Conference Proceedings, 3094, 390003, 2024
55. Stoia, A.; Stoia, D.I.; **Herisanu, N.** Analytical Solution for the Motion of the Center of Mass of the Human Body, AIP Conference Proceedings, 3094, 390004, 2024
56. Jurca, L.; Vigar, C.; **Herisanu, N.**, An Analytical Investigation of the Human Vocal Fold Oscillation Using a Mucosal Wave Model, AIP Conference Proceedings, 3094, 390002, 2024

57. **Herisanu, N.**; Marinca, B.; Marinca, V., Nonlinear Vibration of a Uniform Beam Subjected to a Mechanical Impact and Electromagnetic Actuation, AIP Conference Proceedings, 3315, 290001, 2025
58. **Herisanu, N.**; Marinca, B.; Chilibaru-Opritescu, C.; Marinca, V. Analytic Solution to the Oscillatory Behaviors of a Bernoulli-Euler Beam, AIP Conference Proceedings, 3315, 290002, 2025
59. Popescu, F.G.; Bolocan, C.; Oancea, M.; Drăgoi, I.I.; **Herisanu, N.**; Oancea, C.; Kundnani, N.R.; Handra, C.M.; Oțelea, M.R.; Surducun, D.A., Work-Related Disorders in Public Transportation Drivers and the Length of Exposure, Journal of Clinical Medicine, 14(14), 5018, 2025
60. Marinca, B.; **Herisanu, N.**; Marinca, V. Study on Nonlinear Vibration of Carbon Nanotube-Reinforced Composite Beam Using Nonlocal Beam Theory in a Complex Environment, Applied Sciences (Switzerland), 15(12), 6494, 2025
61. Marinca, V.; **Herisanu, N.**; Marinca, B., Approximate Solution to Nonlinear Dynamics of a Piezoelectric Energy Harvesting Device Subject to Mechanical Impact and Winkler–Pasternak Foundation, Materials, 18, 1502, 2025
62. Cveticanin, L.; **Herisanu, N.**; Ismail, G.M.; Zukovic, M. Vibration of the Liénard Oscillator with Quadratic Damping and Constant Excitation, Mathematics, 13(6), 937, 2025
63. Marinca, B.; **Herisanu, N.**; Marinca, V. Vibration Analysis of Laminated Composite Beam with Magnetostrictive Layers Flexibly Restrained at the Ends, Mathematics, 13(23), 3856, 2025
64. Marinca, B.; **Herisanu, N.**; Marinca, V. Analysis of a magnetostrictive laminated beam considering mechanical impact, electromagnetic actuation and nonlinear elastic foundation, AIP Conference Proceedings, , 3489(1), 180002, 2026
65. **Herisanu N.**, Marinca B., Motiu T., Marinca V. Nonlinear dynamics of suspended inclined cables under mechanical impact, AIP Conference Proceedings, 3489(1), 180001, 2026
66. Pasca M.S., Chilibaru-Opritescu C., **Herisanu N.**, Approximate analytical solutions for a model of the blood flow through a blood vessel, AIP Conference Proceedings, 3489(1), 180003, 2026
67. **Herisanu N.**, Marinca B., Marinca V., Cveticanin L., Forced Nonlinear Vibration of an Axially Functionally Graded Beam Under the Combined Effects of Electromagnetic Actuation, Mechanical Impact, and Casimir Force, Mathematics, 14(11), 1924, 2026

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E. Brevete obținute în întreaga activitate

1.

Data: 30.06.2026

Semnătura:

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume: BĂDĂRĂU RODICA

Gradul didactic: ȘEF LUCRĂRI

Instituția unde este titular: UNIVERSITATEA POLITEHNICA TIMIȘOARA

Facultatea: MECANICĂ

Departamentul: MAȘINI MECANICE, UTILAJE ȘI TRANSPORTURI

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Rodica Bădăraș - „Contribuții la studiul turbomașinilor axiale neîntubate”; domeniu de doctorat: Inginerie Mecanică, conducător științific: Prof. dr. ing. Francisc Gyulai; susținută public în 03.11.2011; confirmată prin Ordinul MECTS Nr.3818/26.04.2012.

B. Cărți și capitole în cărți publicate în ultimii 10 ani

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Remus Ene, Romeo Negrea, **Rodica Bădăraș**, Nicolina Pop. *Closed-Form Almost Periodical Solutions for a Dynamical System Using the Optimal Auxiliary Functions Method*. Mathematics 2026, 14, 1260. <https://doi.org/10.3390/math14081260>.
2. Remus Ene, Romeo Negrea, **Rodica Bădăraș**, Nicolina Pop. *Closed-Form Heteroclinic Orbits for a Three-Parameter Dynamical System Using a Modified Optimal Parametric Iteration Method*. Mathematics 2026, 14, 1126. <https://doi.org/10.3390/math14071126>.
3. Remus Ene, Nicolina Pop, **Rodica Bădăraș**. *Closed-Form Solutions for a Dynamical System Using Optimal Parametric Iteration Method*. Axioms. 15. 1, 2025, 10.3390/axioms15010001.
4. Remus Ene, Nicolina Pop, **Rodica Bădăraș**. *The Optimal Auxiliary Functions Method for Semi-Analytical Solutions of the MHD Mixed Convection Stagnation-Point Flow Problem*. Symmetry 17, 2025, 1455, DOI 10.3390/sym17091455.
5. Remus Ene, Pop Nicolina, **Rodica Bădăraș**, *Symmetries and Closed-Form Solutions for Some Classes of Dynamical Systems*, 2025, Symmetry-Basel 17(4):546, DOI 10.3390/sym17040546.
6. Remus Ene, Pop Nicolina, **Rodica Bădăraș**, *Exact Parametric and Semi-Analytical Solutions for the Rucklidge-Type Dynamical System*, 2025, Mathematics 13(13):2052, DOI 10.3390/math13132052.
7. Remus Ene, Pop Nicolina, **Rodica Bădăraș**, *The Optimal Auxiliary Functions Method for Semi-Analytical Solutions of the MHD Mixed Convection Stagnation-Point Flow Problem*, 2025, Symmetry-Basel 17(9):1455, DOI 10.3390/sym17091455.
8. Remus Ene, Pop Nicolina, **Rodica Bădăraș**, *Semi-Analytical Solutions for the Shimizu-Morioka Dynamical System*, 2025, Axioms 14 (8):580, DOI 10.3390/axioms14080580.
9. Remus Ene, Pop Nicolina, **Rodica Bădăraș**, *Semi-Analytical Solutions for the Qi-Type Dynamical System*, 2024, Symmetry-Basel 16(12):1578, DOI 10.3390/sym16121578.
10. Remus Ene, Pop Nicolina, **Rodica Bădăraș**, *Partial Slip Effects for Thermally Radiative Convective Nanofluid Flow*, 2023, Mathematics 11(9):2199, DOI 10.3390/math11092199.

11. Remus Ene, Pop Nicolina, **Rodica Bădărașu**, *Heat and Mass Transfer Analysis for the Viscous Fluid Flow: Dual Approximate Solutions*, 2023, Mathematics 11(7):1648, DOI 10.3390/math11071648.
12. Lazar I, Salcianu CL, Bordeasu Ilare, Popoviciu M, Hlusu M, Pirvulescu LD, Malaimare G, **Bădărașu R.** - *Contributions for increasing the CuZnPb brass durability to cavitation erosion*, International Conference on Applied Sciences Journal of Physics: Conference Series 1426 (2020) 012015 IOP Publishing doi:10.1088/1742-6596/1426/1/012015, 2020.
13. Cornelia Laura Sălcianu, Ilare Bordeasu, Nicușor Alin Sîrbu, **Rodica Bădărașu**, Mihai Hlusu, Liviu Daniel Pirvulescu, Daniel Ostoia, Octavian Victor Oancă - *Assessment of the Cavitation Resistance of Stainless Steel X5CrNi18-10, Subjected to Thermal Sensitization Based on Average Durability*, Advanced Materials Research Vol 1157, pag. 52-57, 2020.
14. Cornelia Laura Sălcianu, Ilare Bordeasu, Nicușor Alin Sîrbu, **Rodica Bădărașu**, Gabriel Mălaimare, Mihai Hlusu, Daniel Ostoia, Octavian Victor Oancă - *Evaluation of the Cavitation Resistance of INCONEL 718, in Delivered and Respectively Heat Treated Condition*, Advanced Materials Research Vol 1157, pag. 47-51, 2020.
15. Ilare Bordeasu, Adrian Circiumaru, Mircea Popoviciu, Iosif Lazar, **Rodica Bădărașu**, Ioan Groza - *Cavitation Erosion Behavior on Thin Films of Polymer Blends Deposited Over Bronze Surfaces*, Materiale Plastice, vol 55, pag. 286-290, 2018.

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1. **Rodica Bădărașu**, Gheorghe Bădărașu - *Study on the Exterme Wear of the Conveyor Band of a Rubber Band Feeder in the Construction of a Hydrocarbon Pavment Mixture Preparation Plant. Identifying the Causes of the Event*, Buletinul Institutului Politehnic din Iași, publicat de Universitatea "Gheorghe Asachi" din Iași, Vol 64 (68), Nr 1-4 din 2018, Secția Știința și ingineria materialelor, pag. 43-53, 2018.
2. Bordeasu Ilare, Popoviciu Mircea-Octavian, Salcianu Laura Cornelia, Ghera Cristian, Micu Lavinia Madalina, **Bădărașu Rodica**, Iosif Anton, Pirvulescu Liviu Dan, Podoleanu Corneliu Eusebiu – *A new concept for stainless steels ranking upon the resistance to cavitation erosion*, International Conference on Applied Sciences (ICAS2016), IOP Conf. Series; Materials Science and Engineering 163, 2017, 012002 doi:10.1088/1757-899X/163/1/012002, 2017
3. Victor Bălășoiu, **Rodica Bădărașu**, Ilare Bordeasu, Mircea O. Popoviciu, Dorin Bordeasu, *Considerations regarding the Hydrodynamic Stresses for Directional Spool Valves*, Proceedings of 2017 International Conference on Hydraulics and Pneumatics – HERVEX, November 8-10, Băile Govora, Romania, ISSN 1454 – 8003.

- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E. Brevete obținute în întreaga activitate

1.

Data: 15.06.2026

Semnătura:

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume: LUCA Alexandru-Nicolae

Gradul didactic: Ș.l. dr. ing.

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: Mecanica

Departamentul: Mașini Mecanice Utilaje si Transporturi

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

A.N. Luca Cercetarea rezistenței la eroziunea prin cavitație a unor aliaje cu bază de aluminiu cu tratament termic de îmbătrânire artificială, Timișoara 2024.

B. Cărți si capitole în cărți publicate în ultimii 10 ani

1. Ghera C., Bodeașu I., Luca A.N., Sălcianu C. L. Acționări pneumatice, Editura Politehnica Timișoara, 2024

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Istrate Dionisie, Bordeasu Ilare, Ghiban Brandușa, Istrate Bogdan, Sbarcea Beatrice-Gabriela, Ghera Cristian.; **Luca Alexandru Nicolae**, Odagiu Petrișor ovidiu, Florea Bogdan, Gubencu Dinu, Correlation between Mechanical Properties—Structural Characteristics and Cavitation Resistance of Rolled Aluminum Alloy Type 5083, *Metals* **2023**, 13(6), 1067 *Metals* 2023, 13, 1067 <https://doi.org/10.3390/met13061067>
2. Ilare Bordeasu, Brândusa, Ghiban, Lavinia Madalina Micu, **Alexandru Nicolae Luca**, Alin Mihai Demian and Dionisie Istrate The Influence of Heat Aging Treatments on the Cavitation Erosion Behavior of a Type 6082 Aluminum Alloy, *Materials* 2023, 16(17), 5875; <https://doi.org/10.3390/ma16175875>
3. Cristian GHERA, Ovidiu Petrisor ODAGIU, Vasile NAGY, Lavinia Madalina MICU, **Alexandru Nicolae LUCA**, Ilare BORDEASU, Mihai Alin DEMIAN, Andreea Daniela BUZATU, Brandusa GHIBAN Influence Of Ageing Time On Cavitation Resistance Of 6082 Aluminum Alloy, U.P.B. Sci. Bull., Series B, Vol. 84, Iss. 4, 2022, ISSN 1454-2331 Page225-237
4. Petrișor-Ovidiu ODAGIU, Cornelia Laura SALCIANU, Cristian GHERA, Andreea Daniela BUZATU, Lavinia Madalina MICU, **Alexandru Nicolae LUCA**, Ilare BORDEASU, Brandusa GHIBAN Heat Treatment Parameters Influence On The Cavitation Resistance Of An Aluminum Alloy, U.P.B. Sci. Bull., Series B, Vol. 85, Iss. 3, 2023, ISSN 1454-2331, Page239-252

5. C.M. Iordache, A.N. Luca, I. Bordeasu, G. Ciungu, B. Ghiban Cavitation Erosion Behavior of a Biodegradable Alloy from the Zn-Mg System for Biomedical Applications Tribology in Industry DOI: 10.24874/ti.1604.11.23.01, 2024, 46(2), pag.315-323
6. A.N. Luca, I. Bordeasu, C.M. Iordache, G. Ciungu, B. Ghiban, M. Miculescu, L.M. Micu, Heat Treatment Influence on the Cavitation Erosion Zn-Mg Behavior Used for Biomedical Applications Tribology in Industry, DOI: 10.24874/ti.1548.09.23.11,2024,pag. 270-282
- Luca A.N.; Bordeasu I.; Ghiban B.; Demian A.M.; Ghera C. *Cavitation behavior study of the aging heat treated aluminum alloy 7075* ICAS 2022, doi:10.1088/1742-6596/2540/1/012037, 2023
6. Luca A.N.; Bordeasu I.; Micu L.M.; Ghera C.; Salcianu L.; Badarau R.; Ostoia D.; Hluscu M.; Sirbu A.N. Evaluating the Cavitation Erosion of 7075-T651 Aluminum Alloy Heat Treated by Artificial Aging at 140 °C for 12 Hours ISSN: 1662-9779, 2023
7. Ghera C.; Bordeasu I.; Luca A.N.; Salcianu C.L.; Ghiban B.; Odagiu O.; Sirbu N.-A.; Badarau R. *Increasing the Resistance to Cavitation Erosion of 6082 Aluminum Alloys Through Thermal Aging Treatments at 140°C and Holding Time of 12 Hours* ISSN: 1662-9779, 2023
8. Salcianu C.L.; Bordeasu I.; Ghiban B.; Sirbu A.N.; Ghera C.; Luca A.N.; Odagiu O.; Badarau R. *Research on the Influence of the Heat Treatment Temperature on the Cavitation Behavior of the Aluminum Alloy 2017 A* ISSN: 1662-9779, 2023
9. Bordeasu I.; Luca A.N.; Ghera C.; Salcianu C.L.; Ostoia D.; Micu L.M. *Considerations on the Behaviour and Resistance of Aluminium Alloys to Cavitation Erosion*, The 14th edition of the international conference1 INNOVATIVE TECHNOLOGIES FOR JOINING ADVANCED MATERIALS - TIMA23 ISSN: 1662-9752, 2024
10. C.-V. Besalîc, A.-N. Luca, G.-V Mnerie, L.-N. Boțilă, C. Ghera, R. Bădăraș *Research on the Cavitation Resistance Testing of Friction Stir Welded Joint of EN AW 1200 Aluminium Alloy*, ISSN: 1662-9752, 2024
11. C.-V. Besalîc, A.-N. Luca, G.-V Mnerie, L.-N. Boțilă, C. Ghera, R. Bădăraș *Research on the Cavitation Resistance Testing of Friction Stir Welded Joint of Cu99 Cooper*, ISSN: 1662-9752, 2024

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1. I. BORDEAȘU, C. GHERA, D. ISTRATE, L. SĂLCIANU, B. GHIBAN, D. V. BĂZĂVAN, L. M. MICU, D. C STROIȚĂ, A.SUTA, I. TOMOIAGĂ, A. N. LUCA Resistance and Behavior to Cavitation Erosion of Semi-Finished Aluminum Alloy 5083, "HIDRAULICA" Magazine of Hydraulics, Pneumatics, Tribology, Ecology, Sensorics, Mechatronics; ISSN: 1453 – 7303, 2021 pag.17-24
2. A. N. LUCA , I. BORDEAȘU, B. GHIBAN, C. GHERA, D. ISTRATE, D.C. STROIȚĂ Modification of the Cavitation Resistance by Hardening Heat Treatment at 450 °C Followed by Artificial Aging at 180 °C of the Aluminum Alloy 5083 Compared to the State of Cast Semi-Finished Product "HIDRAULICA" Magazine of Hydraulics, Pneumatics, Tribology, Ecology, Sensorics, Mechatronics; ISSN: 1453 – 7303 2022, pag. 39-45

3. I. Bordeasu, A.N. Luca, I. Lazăr, D. Lazăr, R. Bădărașu, B. Ghiban, A. D. Buzatu, A. M. Demian, O.P. Odagiu, L.M. Micu Modification Of Cavitation Erosion Resistance Of Aluminum Alloy 7075 By Maintaining Of Artificial Aging Heat Treatment At 180°C “HIDRAULICA” Magazine of Hydraulics, Pneumatics, Tribology, Ecology, Sensorics, Mechatronics; ISSN: 1453 – 7303, 2022 pag.33-41

- Selecție cu maximum 20 lucrări în volume de conferințe

4. A. N. Luca, I. Bordeasu, C. Ghera, Politehnica I. Lazar, D. Bordeasu, C. E. Podoleanu, S. T. Duma, R. Badarau *Considerations Regarding The Effect Of The Temperature Heat Treatment Of Aging On Cavitation Erosion Behavior Of The Aluminum Alloy 2017 A* Annals of 'Constantin Brancusi' University of Targu-Jiu. Engineering Series, 2022
5. I. BORDEASU C. GHERA, A.N. LUCA, A.S MANEA, D.C. STROITA, C. L. SALCIANU, B. GHIBAN, L.M. MICU Investigation of cavitation resistance of biocompatible zinc-based alloys for biomedical applications, 12th International Symposium on Machine and Industrial Design in Mechanical Engineering, 2024
6. A.S MANEA D.C. STROITA,I. BORDEASU C. GHERA, A.N. LUCA, Air-Dynamic Measurements on "S" Shape Hydrofoils 12th International Symposium on Machine and Industrial Design in Mechanical Engineering,2024

E. Brevete obținute în întreaga activitate

1.

Data:

Semnătura:

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume: TULCAN Elida-Gabriela

Gradul didactic: Asistent

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: Mecanică

Departamentul: Mecatronică

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Tulcan Elida-Gabriela: Cercetări privind mecanismele de pliere în vederea dezvoltării unui robot medical de dezinfecție (în curs de redactare).

B. Cărți si capitole în cărți publicate în ultimii 10 ani

-

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Oarcea, A., **Tulcan, EG.**, Lovasz, EC. (2023). Kinematic Analysis of the 3-U(RPRGR)RU Parallel Robot. In: Laribi, M.A., Nelson, C.A., Ceccarelli, M., Zeghloul, S. (eds) New Advances in Mechanisms, Transmissions and Applications. MeTrApp 2023. Mechanisms and Machine Science, vol 124. Springer, Cham. https://doi.org/10.1007/978-3-031-29815-8_19.
2. **Tulcan, EG.**, Sticlaru, C., Lovasz, EC. (2023). Design of a Medical Robot with Folding Mechanism Used for Disinfection in the Hard-to-Reach Areas. In: Tarnita, D., Dumitru, N., Pisla, D., Carbone, G., Geonea, I. (eds) New Trends in Medical and Service Robotics. MESROB 2023. Mechanisms and Machine Science, vol 133. Springer, Cham. https://doi.org/10.1007/978-3-031-32446-8_38.
3. **E.-G. Tulcan**, C. Sticlaru, A. Oarcea and E. -C. Lovasz, "Medical Disinfection Robots: Past vs Future. Improving the Disinfection Process by Using Disinfection Robots with Folding Mechanism," 2023 17th International Conference on Engineering of Modern Electric Systems (EMES), Oradea, Romania, 2023, pp. 1-4, doi: 10.1109/EMES58375.2023.10171677.
4. **Tulcan, EG.**, Oarcea, A., Lovasz, EC. (2023). Analytical Synthesis of the Seven-Bar Linkage 7-RR(RRRR)RR Used for Medical Disinfection Robot. In: Petuya, V., Quaglia, G., Parikyan, T., Carbone, G. (eds) Proceedings of I4SDG Workshop 2023. I4SDG 2023. Mechanisms and Machine Science, vol 134. Springer, Cham. https://doi.org/10.1007/978-3-031-32439-0_20.
5. Tivadar, D., Lovasz, EC., Ceccarelli, M., Russo, M., **Tulcan, EG.**, Oarcea, A. (2024). Design of a 3D Printer with Five-Bar Linkage. In: Doroftei, I., Kiss, B., Baudoin, Y., Taqvi, Z., Keller Fuchter, S. (eds) 25th International Symposium on Measurements and Control in Robotics.

- ISMCR 2023. Mechanisms and Machine Science, vol 154. Springer, Cham. https://doi.org/10.1007/978-3-031-51085-4_5.
6. Oarcea, A., **Tulcan, E.G.**, Lovasz, E.C. (2023). Kinematic Analysis of the 3-U(RPRGR)RU Parallel Robot. In: Laribi, M.A., Nelson, C.A., Ceccarelli, M., Zeghloul, S. (eds) New Advances in Mechanisms, Transmissions and Applications. MeTrApp 2023. Mechanisms and Machine Science, vol 124. Springer, Cham. https://doi.org/10.1007/978-3-031-29815-8_19.
 7. Oarcea, A., **Tulcan, E.G.**, Kristof, R., Lovasz, E.C. (2024). Comparative Study of the Kinematic Performance Indices for the 3-U(RPRGR)RU and the 3-URU Parallel Robots. In: Pisla, D., Carbone, G., Condurache, D., Vaida, C. (eds) Advances in Service and Industrial Robotics. RAAD 2024. Mechanisms and Machine Science, vol 157. Springer, Cham. https://doi.org/10.1007/978-3-031-59257-7_35.
 8. **Tulcan, E.G.**, Sticlaru, C., Oarcea, A., Sandu, M.O., Lovasz, E.C. (2024). Kinematic Analysis of the Seven-Bar Linkage 7-PR(RRRR)RP Used for Medical Disinfection Robot. In: Pisla, D., Carbone, G., Condurache, D., Vaida, C. (eds) Advances in Service and Industrial Robotics. RAAD 2024. Mechanisms and Machine Science, vol 157. Springer, Cham. https://doi.org/10.1007/978-3-031-59257-7_36.
 9. Lovasz, E.C., Ceccarelli, M., **Tulcan, E.-G.**, Oarcea, A., Silaghi-Perju, D.C., Sticlaru, C., Buncianu, D. (2024). Unitary Synthesis Method of Basic Mechanisms with Translating Driven Element. In: Beran, J., Bílek, M., Václavík, M., Žabka, P. (eds) Advances in Mechanism Design IV. TMM 2024. Mechanisms and Machine Science, vol 171. Springer, Cham. https://doi.org/10.1007/978-3-031-70251-8_2.
 10. Popescu, I.E., Florescu, F., Moldovan, C.E., Buncianu, D., **Tulcan, E.G.**, Lovasz, E.C. (2024). Noncircular Cable-Pulley Mechanisms Used for Equilibrating the Wheelchair Backrest. In: Lovasz, E.C., Ceccarelli, M., Ciupe, V. (eds) Mechanism Design for Robotics. MEDER 2024. Mechanisms and Machine Science, vol 166. Springer, Cham. https://doi.org/10.1007/978-3-031-67383-2_6.
 11. Oarcea, A., **Tulcan, E.G.**, Buncianu, D., Lovasz, E.C. (2024). Kinematic Analysis of the 4-U(RPRGR)RU Redundant Parallel Robot. In: Lovasz, E.C., Ceccarelli, M., Ciupe, V. (eds) Mechanism Design for Robotics. MEDER 2024. Mechanisms and Machine Science, vol 166. Springer, Cham. https://doi.org/10.1007/978-3-031-67383-2_38.
 12. **Tulcan, E.G.**, Oarcea, A., Sticlaru, C., Ceccarelli, M., Lovasz, E.C. (2024). Analytical Synthesis of the Seven-Bar Linkage 7-PR(RRRR)RP Used for Medical Disinfection Robot. In: Lovasz, E.C., Ceccarelli, M., Ciupe, V. (eds) Mechanism Design for Robotics. MEDER 2024. Mechanisms and Machine Science, vol 166. Springer, Cham. https://doi.org/10.1007/978-3-031-67383-2_35.
 13. Crăciun, N.G., **Tulcan, E.G.**, Ciapa, C., Lovasz, E.C. (2024). Wrist Exoskeleton Actuated by a Parallel Manipulator. In: Lovasz, E.C., Ceccarelli, M., Ciupe, V. (eds) Mechanism Design for Robotics. MEDER 2024. Mechanisms and Machine Science, vol 166. Springer, Cham. https://doi.org/10.1007/978-3-031-67383-2_19.
 14. Erwin-Christian, L.; Valentin, C.; Tivadar, D.; Alexandru, O.; **Elida-Gabriela, T.**; Melania-Olivia, S. Optimal Synthesis of Five-Bar Linkage Based on Singularity-Free Workspaces with Predefined Shapes. Robotics 2024, 13, 173. <https://doi.org/10.3390/robotics13120173>.

15. **Tulcan, E.-G.**; Sticlaru, C.; Oarcea, A.; Sandu, M.O.; Crăciun, N.-G.; Lovasz, E.-C. Feasibility Study of the Seven-Bar Linkage 7-PR(RRRR)RP Used for Medical Disinfection Robot. *Robotics* 2024, 13, 177. <https://doi.org/10.3390/robotics13120177>.
16. Crăciun, N.-G.; **Tulcan, E.-G.**; Oarcea, A.; Ciapa, C.; Lovasz, E.-C. Wrist Exoskeleton Actuated by a 2-RRU-U Parallel Manipulator. *Machines* 2024, 12, 945. <https://doi.org/10.3390/machines12120945>.
17. Sandu, M.-O.; Ciupe, V.; Gruescu, C.-M.; Kristof, R.; Sticlaru, C.; **Tulcan, E.-G.** Determining the Proper Force Parameters for Robotized Pipetting Devices Used in Automated Polymerase Chain Reaction (PCR). *Robotics* 2025, 14, 2. <https://doi.org/10.3390/robotics14010002>.
18. **Tulcan, E.G.**, Sticlaru, C., Crăciun, NG., Pop, F., Lovasz, EC. (2025). Medical Disinfection Robots. A Review on Disinfection Methods. In: Rackov, M., Miltenović, A., Banić, M. (eds) *Machine and Industrial Design in Mechanical Engineering. KOD 2024. Mechanisms and Machine Science*, vol 174. Springer, Cham. https://doi.org/10.1007/978-3-031-80512-7_83.
19. Oarcea, A., **Tulcan, E.G.**, Lovasz, EC., Maniu, I. (2025). The Influence of Link Lengths on the Kinematic Performance of the 2R Serial Robot. In: Doroftei, I., Lovasz, EC. (eds) *New Advances in Mechanisms, Mechanical Transmissions and Robotics. MTM&Robotics 2024. Mechanisms and Machine Science*, vol 178. Springer, Cham. https://doi.org/10.1007/978-3-031-87537-3_12.
20. Popescu, IE., Florescu, F., Buncianu, D., **Tulcan, E.G.**, Dobra, A., Lovasz, EC. (2025). Inverted Cardan-Gear Spring Mechanism Used for Balancing the Wheelchair Backrest and Footrest. In: Doroftei, I., Lovasz, EC. (eds) *New Advances in Mechanisms, Mechanical Transmissions and Robotics. MTM&Robotics 2024. Mechanisms and Machine Science*, vol 178. Springer, Cham. https://doi.org/10.1007/978-3-031-87537-3_15.
21. **Tulcan, E.G.**, Sticlaru, C., Oarcea, A., Sandu, M.O., Lovasz, EC. (2025). Comparative Analysis of the 7-RR(RRRR)RR and 7-PR(RRRR)RP Seven-Bar Linkages for the Design of a Medical Disinfection Robot with Folding Mechanism. In: Doroftei, I., Lovasz, EC. (eds) *New Advances in Mechanisms, Mechanical Transmissions and Robotics. MTM&Robotics 2024. Mechanisms and Machine Science*, vol 178. Springer, Cham. https://doi.org/10.1007/978-3-031-87537-3_21.
22. Oarcea, A., **Tulcan, E.G.**, Scurt, AM., Scurt, R.K., Lovasz, EC. (2025). Optimal Synthesis of the 2R Serial Robot Based on Kinematic Performance Measures. In: Carbone, G., Quaglia, G. (eds) *Proceedings of I4SDG Workshop 2025 - IFToMM for Sustainable Development Goals. I4SDG 2025. Mechanisms and Machine Science*, vol 179. Springer, Cham. https://doi.org/10.1007/978-3-031-91151-4_22.
23. **Tulcan, E.G.**, Sticlaru, C., Oarcea, A., Crăciun, NG.Ț.i., Lovasz, EC. (2025). Optimized Synthesis Method of the 7-RR(RRRR)RR Seven-Bar Linkage Used for Medical Disinfection Robot. In: Carbone, G., Quaglia, G. (eds) *Proceedings of I4SDG Workshop 2025 - IFToMM for Sustainable Development Goals. I4SDG 2025. Mechanisms and Machine Science*, vol 179. Springer, Cham. https://doi.org/10.1007/978-3-031-91151-4_21.
24. Crăciun, NG., Ciapa, C., **Tulcan, E.G.**, Kristof, R., Buncianu, D., Lovasz, EC. (2025). Wrist Exoskeleton Actuated by a Parallel Manipulator with Linear Servomotors. In: Laribi, M.A., Carbone, G., Pisla, D., Zeghloul, S. (eds) *New Trends in Medical and Service Robotics*.

MESROB 2025. Mechanisms and Machine Science, vol 186. Springer, Cham. https://doi.org/10.1007/978-3-031-96081-9_27.

25. TULCAN, Elida-Gabriela et al. COMPARATIVE ANALYSIS OF THE 4-RRRP FOUR-BAR LINKAGE AND THE 7-PR(RRRR)RP SEVEN-BAR LINKAGE FOR THE DESIGN OF A MEDICAL DISINFECTION ROBOT WITH FOLDING MECHANISM. ACTA TECHNICA NAPOCENSIS - Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING, [S.l.], v. 68, n. 1 & 2, jun. 2025. ISSN 2393–2988. Available at: <<https://atna-mam.utcluj.ro/index.php/Acta/article/view/2727>>.

26. Lovasz, EC., Ceccarelli, M., Lupuți, AMF., Tulcan, EG., Scurt, AM., Kristof, R. (2026). Novel Type Synthesis Approach of Symmetrical Planar Parallel Robots Using Kinematic Connections. In: Wu, YR., Essomba, T., Hsu, KL., Laribi, M.A. (eds) New Advances in Mechanisms, Transmissions and Applications. MeTrApp 2025. Mechanisms and Machine Science, vol 192. Springer, Cham. https://doi.org/10.1007/978-3-032-05466-1_23.

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

-

E. Brevete obținute în întreaga activitate

-

Data: 15.06.2026

Semnătura:

A N E X A 4 . 1

Nume Prenume: STEF DORIAN..

Gradul didactic: .SEF LUCRARI

Instituția unde este titular: .UNIVERSITETA POLITEHNICA TIMISOARA

Facultatea: MECANICA

Departamentul: INGINERIA MATERIALELOR SI FABRICATIEI

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

1. Dezvoltarea produsului in contextul fabricii digitale, inginerie industrială, 2012, universitatea Politehnica Timisoara, 6508/19.12.2012

B. Cărți si capitole în cărți publicate în ultimii 10 ani

1. Stef Dorian - Conceptia si exploatarea sculelor aschietoare, Editura Politehnica Timisoara, 2017, ISBN 978-606-35-0199-9, 180
2. Stef Dorian, George Draghici - Manufacturing processes automation and their intelligent monitoring - Sustainability and Innovation in Manufacturing Enterprises: Indicators, Models and Assessment for Industry 5.0, Editura Springer Singapore, 2022
3. Stef Dorian – Conceptia integrata a produsului, 2024 – Campus virtual, Elearning – disponibil in format electronic www.cv.upt.ro
4. Stef Dorian – Actionari si comenzi hidraulice si pneumatice, 2024– Campus Virtual, Elearning – disponibil in format electronic www.cv.upt.ro

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. ȘTEF Dorian - Architecture proposal for implementation of artificial intelligence on cnc machine tools - Acta Technica Napocensis-Series: Applied Mathematics, Mechanics, And Engineering, 2025
2. Dorian ȘTEF, Nicoleta STELEA, Ergonomic, Affective and Emotional Design as a Project Design Approach for the Evolutive Children's Furniture, 2025
3. ȘTEF Dorian, Nicoleta MIREA - Lifelong Learning in Context of Industry 4.0, Acta Technica Napocensis-Series: Applied Mathematics, Mechanics, And Engineering, 2021
4. ȘTEF Dorian, Laura TEBAN, Nicoleta MIREA - The future of jobs and lifelong learning implementation, Acta Technica Napocensis-Series: Applied Mathematics, Mechanics, And Engineering, 2023

5. STEF Dorian, Madalina DAVID - Ergonomics and postural assessment of dentists to prevent musculoskeletal disorders, designing an ergonomic chair, Acta Technica Napocensis-Series: Applied Mathematics, Mechanics, And Engineering, 2023
6. STEF Dorian - Ergonomics in Industry 4.0, Acta Technica Napocensis-Series: Applied Mathematics, Mechanics, And Engineering, 2021

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1. Ștef, D., Roibu L. A Proposed model for collaborative design process methodology. Scintific Bulletin of the Polithenica University of Timisoara, Romania, Transactions of Mechanics, Vol 60, Issue 7, 2016, ISSN 1224-6077

- Selecție cu maximum 20 lucrări în volume de conferințe

1. Ștef, D., Florica, S. „Product development in the context of digital manufacturing”, Proceeding of the Academy of Romanian Scientists, Editura Academiei Oamenilor de Stiinta din Romania, Bucuresti, Romania, Vol. 1,
2. Muntoiu, O., Ștef, D., „The Optimization Process of Revolution Parts Using Esprit CAD/CAM Software”. International Conference and Exhibition CNC Technologies 2011, București, Vol. 1 , pp. 41-44.
3. Pastorici, B., Ștef, D. „Comparative analysis of milling manufacturing strategies”. International Conference and Exhibition CNC Technologies 2011, București, Vol.1, pp. 37-40
4. Ștef D., Florică S., Drăghici G. „Platform for Integrated Product Design and Manufacturing”, Proceedings the 5th International Conference on Manufacturing Science and Education - MSE, Vol. I, Sibiu, June 2-5, 2011, Romania, 2011, pp. 153-156,
5. Turc, C.-G., Ștef, D., Belgiu, G. „An application of fuzzy logic methodology for workpieces choosing”, The 15th International Conference Modern Technologies, Quality and Innovation, Vadul lui Voda-Chisinau, Republic of Moldova, 25-27 May, Vol.3, pp. 1109-1115
6. Turc, C.-G., Ștef, D., Nica, M. „An approach on ultrasonic assisted machining”, ModTech International Conference - New face of TMCR Modern Technologies, Quality and Innovation - New face of TMCR, 24-26 May 2012, Sinaia, Vol.2, pp. 981-984,.
7. Turc, C.-G., Ștef, D., Iftode, L., Carausu, C. , „Fuzzy logic application on parts type bushing manufacturing”, ModTech International Conference - New face of TMCR Modern Technologies, Quality and Innovation - New face of TMCR, 24-26 May 2012, Sinaia, Vol.2, , pp. 985-988
8. Dorian Ștef, George Draghici, Anca Draghici, Product design process model in the digital factory context, Elsevier ScienceDirect, 9, 451-462
9. Anca-Diana Popescu, Anca Draghici, Ioan Dorian Ștef Cultural behaviour description using the Multicultural Personality Questionnaire (MPQ), Managerial Challenges of the Contemporary Society. Proceedings, B+, 6, 53-60
10. Ștef Dorian, Florica Stelian, Drăghici George MODEL OF THE DESIGN PROCESS The 5th International Symposium of Industrial Engineering – SIE Belgrad, B+, ISBN 978-86-7083-758-4, 47-52

11. Putz Viorel, Stef Ioan Dorian, Sîrbu Nicusor Alin Contributions regarding the optimization process of the bench draught bar in the rolling material industry, ANNALS of the ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering, Volume 3(XX), , NR3, 2011 ISSN 1583-0691,
12. PUTZ Viorel, Stef Ioan Dorian, ȘERBAN Dan-Andrei Contributions regarding the optimization of the technological process procedure of draught bars through the development and usage of computational mathematical models that define the manufacturing simulation ANNALS of the ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering, Volume IX (XIX), NR2, ISSN 1583 – 0692

E. Brevete obținute în întreaga activitate

1.

Data:**Semnătura:**

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume: GRECU EUGENIA

Gradul didactic: conferentiar universitar

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: de Management în Producție și Transporturi

Departamentul: Management

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Doctorat în economie cu teza „Relația inflație-somaj în economia românească”, domeniul economie, Universitatea de Vest Timișoara, susținută în 18.09.2003

Teza de abilitare în economie

„Considerations Regarding the Efficiency of Using the Production Factors” în domeniul Economie, susținută în 18.09.2017; Atestat de abilitare: OMEN 5758/27.12.2017

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Grecu Eugenia(2015), Perspective ale dezvoltării regionale în România, Editura Eurobit, Timișoara, 978-973-132-260-5;
2. Grecu Eugenia(2015), Considerații privind echitatea fiscală, Editura SOLNESS, Timișoara, ISBN 978- 973-729-446-3;
3. Grecu Eugenia(2015), Imperative ale eficienței, Editura SOLNESS, Timișoara, ISBN 978-973-729-443-2;
4. Grecu Eugenia, Ionica Oncioiu, Getuta Camelia Stoica, Delia Mioara Popescu Modern(2017) Educational Technologies Applications, and Management, Cap 39: Redefining Chemical Engineering Education in Romania Between Massification, Atomization, and Performance, Editura IGI Global, ISBN13:9781799834762 2021, 634-643

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani**-Reviste ISI cu IF**

1. Halmaciu, I.A., Ionel, I., Miutescu, M.C., Grecu, E, (2024), Novel Specifications Regarding Biogas Production from Agriengineering Activities in Romania, AGRIENGINEERING, Volume6, Issue4, Page3602-3617, DOI10.3390/agriengineering6040205, WOS:001384060900001, IF 3;

2. Albulescu, C.T., Grecu, E. (2023), Government Interventions and Sovereign Bond Market Volatility during COVID-19: A Quantile Analysis, MATHEMATICS, Volume11, Issue5, pages 1171-1185, DOI10.3390/math11051171, WOS:000947722800001, IF 2.2;
3. ALBULESCU,C.T.,MICLEA,S., **GRECU, E.**(2022) Firm-level TFP convergence: an application to the German electricity and gas industry, Applied Economics Letters, Vol 28, No 4, WOS:000620507500001; IF1.3;
4. Moza, G.; Grecu, E. ; Tirtirau, L.(2022), Analysis of a nonlinear financial model, CARPATHIAN JOURNAL OF MATHEMATICS,Volume38, Issue2, Page477-487, DOI10.37193/CJM.2022.02.17, WOS:000761970100001; IF 1.1;
5. Lugojan, S. Ciurdariu, L., Grecu, E., (2022) New Elements of Analysis of a Degenerate Chenciner Bifurcation, Symmetry-Basel, V114, Issue 1, page 77-91, DOI10.3390/sym14010077, WOS:000758815200001; IF 2.2;
6. Lugojan, S. Ciurdariu, L., Grecu, E., (2022) Chenciner Bifurcation Presenting a Further Degree of Degeneration, MATHEMATICS, Volume10, Issue9,page 1603-1620, DOI10.3390/math10091603, WOS:000799292800001; IF 2.2;
7. Lugojan, S. Ciurdariu, L., Grecu, E., (2022) Another Case of Degenerated Discrete Chenciner Dynamic System and Economics, MATHEMATICS, Volume10, Issue20, page 3782-3801, DOI10.3390/math10203782, WOS:000872997400001; IF 2.2;
8. Albulescu, C.T., Stancu, S., Grecu, E., Trasca, D.L.(2022), INFLATION, INFLATION UNCERTAINTY AND FUEL PRICES IN THE EU, ECONOMIC COMPUTATION AND ECONOMIC CYBERNETICS STUDIES AND RESEARCH, Volume56,Issue2, Page37-48, DOI10.24818/18423264/56.2.22.03, WOS:000819597400003; IF 1;
9. Stancu, S.;**Grecu, E.**;Aceleanu, M.L.;Trasca, D.L.;Albulescu, C.T.(2021). DOES FIRM SIZE MATTERS FOR FIRM GROWTH? EVIDENCE FROM THE ROMANIAN HEALTH SECTOR, ROMANIAN JOURNAL OF ECONOMIC FORECASTING, Volume24, Issue1, Page17-31, WOS:000637384500002; IF 1;
10. Soava, G.;Mehedintu, A.; Sterpu, M.;Grecu, E.(2021). The Impact of the COVID-19 Pandemic on Electricity Consumption and Economic Growth in Romania, ENERGIES, Volume14, Issue9, Article Number2394, WOS:000650159600001; IF 3.3;
11. Mehedintu, A.; Soava, G.; Sterpu, M.;Grecu, E.(2021). Evolution and Forecasting of the Renewable Energy Consumption in the Frame of Sustainable Development: EU vs. Romania, SUSTAINABILITY, Volume: 13, Issue: 8, Pages: 10327-10357, WOS:000702106200001; IF 3.3;
12. **Grecu E.**, Oncioiu, I., Ionel, I., Ungureanu, I.(2020), Potential assessment of using biomass for sustainable development. A case study for Romania, Journal of Environmental Protection and Ecology,Volume: 21, Issue: ,2 Pages: ,544-550 ISSN: 1311-5065, WOS:000566784600018; IF 0.507;
13. **Grecu, E.**; Albulescu, CT; Partachi, IP; Stancu, S; Trasca, DL(2020), OUTPUT, UNCERTAINTY AND FUEL PRICES IN THE EU COUNTRIES, ECONOMIC COMPUTATION AND ECONOMIC CYBERNETICS STUDIES AND RESEARCH, Volume: 54, Issue: 1, Pages: 15-30, DOI: 10.24818/18423264/54.1.20.02, WOS:000520862500002; IF 1;

14. **Greco E**, Aceleanu M.I., Albulescu C.T.(2018), The economic, social and environmental impact of shale gas exploitation in Romania: A cost-benefit analysis, RENEWABLE & SUSTAINABLE ENERGY REVIEWS, Volume: 93, Pages: 691-700, DOI: 10.1016/j.rser.2018.05.026, ISSN: 1364-0321, WOS:000440966900049; IF 16.3;
15. Oncioiu, I; **Greco, E**; Masu, S; Morariu, F; Popa, M.,(2018), The effect of fly ash on sunflower growth and human health, ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, Volume: 25, Issue: 35, Pages: 35548-35554, DOI: 10.1007/s11356-018-3444-6, ISSN: 0944-1344 eISSN: 1614-7499, WOS:000452024600072; IF 0.99;
16. Masu, Smaranda; Cojocariu, Luminita; Greco, E.; et al.(2018). Lolium Perenne - A Phytoremediation Option in Case of Total Petroleum Hydrocarbons Polluted Soils, REVISTA DE CHIMIE, Volume: ,69 Issue: 5, Pages: 1110-1114, WOS:000434954100015; IF 1.755;
17. Masu, S.; Greco, E.; Popa, M.; et al.(2017). ASPECTS in situ OIL POLLUTED SOIL PHYTOREMEDIATION WITH PASTURE PLANTS, JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY, Volume: 18, Issue: , 4 Pages: ,1398-1402, WOS:000423283800011; IF 0.507;
18. Oncioiu, I ; Petrescu, AG; **Greco, E**; Petrescu, M(2017). Optimizing the Renewable Energy Potential: Myth or Future Trend in Romania, ENERGIES, Volume: 10, Issue: 6, p.759-773, DOI: 10.3390/en10060759,, ISSN: 1996-1073, WOS:000404384000025; IF 3.3;
19. Masu, S; **Greco, E**; Oncioiu, I; Petrescu, M. (2016), For a sustainable development: Phytoremediation of oil-polluted soils by using birdsfoot trefoil crops, ROMANIAN BIOTECHNOLOGICAL LETTERS, Volume: 21, Issue: 6, Pages: 12010-12017, ISSN: 1224-5984, WOS:000392108600004; IF 0.765;
19. **Greco, E.**; Petrilean, D.C.; Ionel, I.(2016). CARBON FOOTPRINT IMPORTANCE FOR AN INTEGRATED WASTE MANAGEMENT SYSTEM, Journal of Environmental Protection and Ecology, Volume: 17 Issue: 2 Pages: 593-602, ISSN: 1311-5065, WOS:000381331000020; IF 0.507;
20. Masu, M., **Greco, E.**(2016), SOLUTIONS IN THE COAGULATION OF OIL WASTEWATER, STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA, Volume: 61, Issue: 4, Pages: ,189-202, WOS:000393578800015; IF 0.5;
21. Pociovalisteanu, DM ; Novo-Corti, I ; Aceleanu, MI; Serban, AC; Greco, E(2015), Employment Policies for a Green Economy at the European Union Level, SUSTAINABILITY, Volume: 7, Issue: 7, Pages: 9231-9250, DOI: 10.3390/su7079231, ISSN: 2071-1050, WOS:000360354500058; IF 3.3;

-Indexate ISI sau BDI

22. Greco, E.(2015), PUBLIC ROLE IN THE EFFECTIVENESS OF ENVIRONMENTAL POLICIES ECOLOGY, ECONOMICS, EDUCATION AND LEGISLATION, VOL III, Page 469-474, International Multidisciplinary Scientific GeoConference-SGEM, ISI Proceedings,
23. Greco, E.(2015), A "BUSSINESS" BETWEEN ECSTASY AND AGONY, ECOLOGY, ECONOMICS, EDUCATION AND LEGISLATION, VOL III, Page 793-798, International Multidisciplinary Scientific GeoConference-SGEM, ISI Proceedings,

BDI

24. Grecu Eugenia, Smaranda Masu POSSIBILITY OF USING SEWAGE SLUDGE IN AGRICULTURE, Scientific Bulletin of the Politehnica University of Timisoara, Romania, TRANSACTIONS on ENGINEERING AND MANAGEMENT, Volume 4, Number 1, 2018, ISSN 2392-7364 Buletinele UPT

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Conferință

- 1 Grecu Eugenia, Claudiu Ion Ungureanu, Ionica Oncioiu, Ioana Ionel Perspectives of Using Biomass: Evidens from Romania GLOREP 2018, 15-17 november 2018, Timisoara
neindexate, din țară

Data:

Semnătura:

09.06.2026

Prof.dr.habil.ec.ing.jur. Eugenia Grecu

A N E X A 4 . 1

Nume Prenume: Sticlaru Carmen

Gradul didactic: conferentiar dr. ing.

Instituția unde este titular: Universitatea Politehnica Timisoara

Facultatea: Mecanica

Departamentul: Mecatronica

L I S T A**lucrărilor științifice în domeniul disciplinelor din postul didactic****A. Teza de doctorat**

Contribuții la studiul fenomenului de stick-slip – ramura de știință tehnică, specializarea Tribologie, conducător științific: prof. dr. ing. Marcu Balekics

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Constantin Nitu, Dumitru Olaru, Sticlaru Carmen - Componentele sistemelor mecanice și micromecanice, Editura Academiei Oamenilor de Știință din România, București, ISBN 978-606-8371-42-9, 2011;
2. Arjana Davidescu, Sticlaru Carmen - Metoda elementului finit în mecatronica. Aplicații în Ansys Workbench, Editura Politehnica, Timisoara, ISBN 978-606-554-274-7, 2011;

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Moldovan C., Sticlaru Carmen - On the Synthesis of a Five Bar Linkage for Linear Trajectory Using a CAD Analysis, 6th International Conference on Advanced Concepts in Mechanical Engineering, ACME 2014, Iasi, 2014, 12-Jun-14, pag. 95-98, ISBN 978-303835271-6, SCOPUS;
2. Gabor, Alin; Zaharia, Cristian; Todericiu, Vlad; Szuhaneck, Camelia; Cojocariu, Andreea Codruta; Duma, Virgil Florin; Sticlaru, Carmen; Negrutiu, Meda Lavinia; Adhesion of Scaffolds with Implants to the Mandibular Bone with a Defect MATERIALE PLASTICE / 0025-5289 55 2018 393-397 factor impact 1.248
3. Margineanu, D.; Sticlaru, C.; Davidescu, A.; Margineanu, E. Analytic and FEM Study of Load Distribution on the Length of Spline Joints Under Pure Torque Conference: Joint International Conference of the 12th International Conference on Mechanisms and Mechanical Transmissions (MTM) / 23rd International Conference on Robotics (Robotics) Location: Aachen, GERMANY/2211-0984/978-3-319-45450-4; 978-3-319-45449-8 46 2017 69-76;
4. Argesanu, Veronica; Kulcsar, Raul Miklos; Borozan, Ion Silviu; Jula, Mihaela; Streian, Felicia; Farkas, Andrei Zoltan; Sticlaru, Carmen Highlighting the maxillofacial trauma influence on posture by FEA modeling simulation Conference: IEEE 14th International Symposium on Intelligent Systems and Informatics (SISY) Location: Subotica, SERBIA/1949-047X/978-1-5090-2866-5, 2016, 129-133

5. Sticlaru, Carmen; Dolga, Valer-Ioan; INTELLIPARK-SMART CAR PARKING SYSTEM.", Robotica & Management, 2018,
6. Lovasz, E-C; Sticlaru, C; Suciu, C; Gruescu, CM; Ceccarelli, M; Maniu, I; Moldovan, CE; ,Novel actuation design of an active elbow orthosis, IFToMM World Congress on Mechanism and Machine Science, 1527-1534,2019,"Springer, Cham"
7. Lovasz, EC; Gruescu, CM; Sticlaru, C; Moldovan, CE; Stoian, M; Novel solutions for actuation of an above elbow prosthesis, IOP Conference Series: Materials Science and Engineering, 2019, IOP Publishing
8. Sticlaru, Carmen; Tuca, Petrisor Laurentiu; Lovasz, Erwin-Christian; Gruescu, Corina-Mihaela; Maniu, Inocențiu; Moldovan, Cristian Emil; ,Novel Solution for the Mechanism Used in the Actuation of Intelligent Roof Windows,"IFTToMM International Conference on Mechanisms, Transmissions and Applications",,,182-191,2019,"Springer, Singapore"
9. Demjen, Tivadar; Lovasz, Erwin-Christian; Sticlaru, Carmen; Teușdea, Dan; Cărbăș, Iosif; DEVELOPMENT OF A NOVEL 3D SPHERICAL PRINTER, Robotica & Management,24,2,,2
10. Lupuți, Antonio-M-F; Grigorescu, Sanda M; Lovasz, Erwin-Christian; Sticlaru, Carmen; Cărbăș, Iosif; ,Kinematics of the Planar Parallel Manipulator Using Geared Slider-Crank with Linear Actuation as Legs 3-R (PRRGR) RR,Joint International Conference of the International Conference on Mechanisms and Mechanical Transmissions and the International Conference on Robotics,,249-261,2020,"Springer, Cham"
11. Gruescu, Corina-Mihaela; Davidescu, Arjana; Sticlaru, Carmen; Lovasz, Erwin-Christian; ,Interference Fits. Bearing Capacity Under Complex Loading–FEM Analysis, Joint International Conference of the International Conference on Mechanisms and Mechanical Transmissions and the International Conference on Robotics,,403-414,2020,"Springer, Cham"
12. Luputi, Antonio-Marius-Flavius; Lovasz, Erwin-Christian; Ceccarelli, Marco; Sticlaru, Carmen; Scurt (Stoian), Ana-Maria, Kinematic study of feasibility of geared planar parallel manipulator, Proceedings Of The Institution Of Mechanical Engineers Part C-Journal Of Mechanical Engineering Science, 2022, ISSN 2041-2983, WOS:000811661500001;
13. Craciun, Narcis Gratian; Lovasz, Erwin Christian; Sticlaru, Carmen - Study of Cooling Systems for Electronic Components Used in Robot Applications, Proceedings Of I4sdg Workshop 2021: Iftomm For Sustainable Development Goals, Mechanisms and Machine Science, 1st IFTToMM for Sustainable Development Goals workshop (I4SDG), nov 25-26, 2021, Electr Network, IFTToMM Italy, ISSN 2211-0992, ISBN 978-3-030-87383-7; 978-3-030-87382-0, 2022, DOI10.1007/978-3-030-87383-7_35, WOS:000772657100035
14. Vutan, Ana-Maria; Lovasz, Erwin-Christian; Gruescu, Corina-Maria; Sticlaru, Carmen; Sirbu, Elena; Jurjiu, Nicolae-Adrian; Borozan, Ion-Silviu; Vutan, Calin, Evaluation of Symmetrical Exercises in Scoliosis by Using Thermal Scanning, APPLIED SCIENCES-BASEL, 2022, ISSN 2076-3417, WOS:000747159100001;
15. Draghici, Anca; Siclaru, Carmen; Lovasz, Agneta - A New Approach For Training 3d Printing, In The UniversityActa Technica Napocensis Series-Applied Mathematics Mechanics And Engineering, 2021, WOS:000740057300014;

16. Demjen, T; Lovasz, EC; Ceccarelli, M; Sticlaru, C; Luputi, AMF; Oarcea, A; Silaghi-Perju, DC, Design of the five-bar linkage with singularity-free workspace, PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, ISSN 0263-5747, eISSN1469-8668, 2023, vol. 41, fasc. 11, Article Number PII S0263574723001042, DOI 10.1017/S0263574723001042, DOI Link <http://dx.doi.org/10.1017/S0263574723001042>, WOS:001046492400001
17. Moldovan, Cristian; Sticlaru, Carmen, Performance Analysis of Polymer Additive Manufactured Gear Bearings APPLIED SCIENCES-BASEL, 2076-3417, NOV 2023, 13, 22, 12383 10.3390/app132212383, <http://dx.doi.org/10.3390/app132212383>, WOS:001119971800001
18. Sandu, MO; Ciupe, V; Gruescu, CM; Kristof, R; Sticlaru, C; Tulcan, EG Determining the Proper Force Parameters for Robotized Pipetting Devices Used in Automated Polymerase Chain Reaction (PCR) ROBOTICS 14 2025 8
19. Tulcan, EG; Sticlaru, C; Craciun, NG; Pop, F; Lovasz, EC Medical Disinfection Robots. A Review on Disinfection Methods MACHINE AND INDUSTRIAL DESIGN IN MECHANICAL ENGINEERING, KOD 2024 174 2025 853-860
20. Tulcan, EG; Sticlaru, C; Oarcea, A; Sandu, MO; Craciun, NG; Lovasz, EC Feasibility Study of the Seven-Bar Linkage 7-PR(RRRR)RP Used for Medical Disinfection Robot ROBOTICS 13 2024
21. Lovasz, EC; Ceccarelli, M; Tulcan, EG; Oarcea, A; Silaghi-Perju, DC; Sticlaru, C; Buncianu, D Unitary Synthesis Method of Basic Mechanisms with Translating Driven Element ADVANCES IN MECHANISM DESIGN IV, TMM 2024 171 2024 12-22
22. Sandu, MO; Gruescu, CM; Kristof, R; Sticlaru, C; Ciupe, V; Lovasz, EC Experimental Approach on the Force for Robotic Pipetting in Automated PCR (Polymerase Chain Reaction) MECHANISM DESIGN FOR ROBOTICS, MEDER 2024 2024 143-154
23. Tulcan, EG; Sticlaru, C; Oarcea, A; Sandu, MO; Lovasz, EC Kinematic Analysis of the Seven-Bar Linkage 7-PR(RRRR)RP Used for Medical Disinfection Robot ADVANCES IN SERVICE AND INDUSTRIAL ROBOTICS, RAAD 2024 157 2024 359-368
24. Tulcan, EG; Oarcea, A; Sticlaru, C; Ceccarelli, M; Lovasz, EC Analytical Synthesis of the Seven-Bar Linkage 7-PR(RRRR)RP Used for Medical Disinfection Robot MECHANISM DESIGN FOR ROBOTICS, MEDER 2024 2024 334-345

Data:

16.06.2026

Semnătura:

A N E X A 4 . 1

Nume Prenume: Dume Adrian-Ilie

Gradul didactic: Șef de lucrări

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: de Mecanică

Departamentul: Ingineria Materialelor și Fabricației

L I S T A
lucrărilor științifice în domeniul disciplinelor din postul didactic**A. Teza de doctorat**

Cercetari privind imbunatatirea tehnicilor de prototipare rapida prin frezare, Universitatea Politehnica Timisoara, 26.09.2008.

B. Cărți si capitole în cărți publicate în ultimii 10 ani

1.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Lucrări indexate ISI

Nr.	Anul	Autor(i)	TITLU ARTICOL	Revista/conferința	ISSN/ISBN
1	2025	Timpea, Stefan Adrian; Dume Adrian; Dzitac Vasile; Cosma Cristian; Serban, Viorel- Aurel	Design Methodology for a Radius Implant Using Catia V5 R19	Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering	1221-5872
2	2023	Timpea Stefan Adrian, Codrean Cosmin; Sirbu Nicusor- Alin; Dume Adrian Ilie; Cosma Cristian Serban, Viorel- Aurel	Compressive Behavior of Various BCC Lattice Structure	Nano Hybrids and Composites	2297-3370

3	2021	Ambrus S; Soporan RA; Kazamer N; Pascal DT; Muntean R; Dume AI; Marginean GM	Characterization and mechanical properties of fused deposited PLA material	Materials Today-Proceedings	2214-7853
4	2020	Codrean Cosmin; Cosma Cristian; Tosa Dacian; Buzdugan Dragos; Dume Adrian Ilie	Composite Materials Fabricated of Amorphous and Nanocrystalline Metallic Powders	MATERIALE PLASTICE	0025-5289

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E. Brevete obținute în întreaga activitate

Nr. Crt.	Anul	Luna	Tip produs	Titlul produs, tehnologie, studiu, serviciu	Firma utilizatoare	Numar contract	Autorii	Titular /beneficiar
1	2013	04		Matrita cu activare ultrasonica		CBI RO-a2013-00273	Daniel Stan, Tudor Iclanzan, Aurel Tulcan, Cristian Turc, Cristian Cosma, Adrian Dume, Liliana Tulcan	UPT
2	2013	12		Matrita si		CBI RO	Tudor	UPT



				procedeu de injectare a pieselor miniaturale		A/00993	Iclanzan, Daniel Stan, Aurel Tulcan, Cristian Cosma, Adrian Dume, Liliana Tulcan	
--	--	--	--	---	--	---------	---	--

Data:

Semnătura:

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume:

Gradul didactic:

Instituția unde este titular:

Facultatea:

Departamentul:

L I S T A**lucrărilor științifice în domeniul disciplinelor din postul didactic****A. Teza de doctorat**

CONTRIBUTII LA EXTINDEREA GAMEI DE ETALOANE DE DURITATE FABRICATE IN ROMANIA -2003 – Conducator Științific Prof.dr. Ioan Gh. CARTIS

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Materiale Tehnologii- 2019- Curs in format electronic (postat pe CV UPT), Autor Duma.S;
2. Mobilier Tehnologie 2018- Curs in format electronic, (postat pe CV UPT), Autor Duma.S;
3. Tratamente Termice 2017- Curs in format electronic, (postat pe CV UPT), Autor Duma.S.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. The influence of heat treatment applied to 100Cr6 steel on microstructure and hardness **Sebastian Duma**, Deliana Maria Duma, Iuliana Duma, Dragoș Buzdugan, Key Engineering Materials 952, 2023.
2. MODIFICATION OF THE AVERAGE DURABILITY FOR CuSn12 BRONZE AT CAVITATION EROSION USING VOLUMETRIC TREATMENTS; :By: Bordeasu I; Hluscu M ; **Duma S** ; Podoleanu C E; et al *Journal of Physics : Conference Series* **(ISI)** Ser. 1426012014 Published : **2020**
3. STREAMLINING TECHNOLOGIES FOR PROCESSING SCRAPS FROM ALUMINIUM ALLOYS; By:Butu M; Apostol ; **Duma S** ; Constantin ; et al. *University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry And Materials Science* **(ISI)** Volume:81 Issue:4 Pages:237-252 Published: **2019**
4. PROCESSING TECHNOLOGY OF FGMMCS FROM THE AA6060/TiB2 SYSTEM BY CENTRIFUGAL CASTING By : Stancel; Butu M; **Duma S**; Nicolae; et al. University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry And Materials Science **(ISI)** Volume:81 Issue : 4 Pages : 325-337 Published : **2019**
5. STUDIES ON THE FLUX TREATMENT OF SECONDARY ALUMINIUM ALLOYS OBTAINED AT LOW TEMPERATURES By : Apostol ; Butu M ; **Duma S** ; Domenic; et al *University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry And Materials Science* **(ISI)** Voulume: 81 Issue : 2 Pages : 197-206 Published : **2019**

6. EVALUATION OF THE CAVITACION RESISTANCE OF SOME MATERIALS BASED ON MEAN DURABILITY By : Micu L M ; Bordeasu I ; **Duma S** ; *Welding And Material Testing (BDI)* Published : **2018**
7. CAVITATION EROSION BEHAVIOR OF SOME GAS NITRATED STEELS, By: Ilare BORDEASU Mircea Octavian POPOVICIU Lavinia Madalina MICU , **Duma S** – Rodica BADARAU et al, *Machine Design*, **Vol.9 (2017)** No.3, pp. 111-116 (**BDI**)
8. STUDY ON THE FORMATION OF CO₁₂XZNXFE₂O₄ SYSTEM USING TWO LOW-TEMPERATURE SYNTHESIS METHODS, By:C . Muntean M Bozdog **Duma S**, M. Stefanescu, *Journal of Thermal Analysis andCalorimetry* AnInternationalForum for ThermalStudiesISSN 1388-6150J Therm Anal CalorimDOI 10.1007/s10973-015-4963-8Volume 121 Number 3 Published **2016 (ISI)**
9. RESEARCHES UPON THE CAVITATION EROSION BEHAVIOUR OF AUSTENITE STEELS, I.Bordeasu, By: M O Popoviciu I MiteleaL C Salcianu, **Duma S** A Iosif, Conference: *International Conference on Applied Sciences (ICAS)* Location: Military Econ Acad Wuhan, Wuhan, Peoples R China Date: JUN 03-05, **2016 (ISI)**
10. CORRELATIONS BETWEEN MECHANICAL PROPERTIES AND CAVITATION EROSION RESISTANCE FOR STAINLESS STEELS WITH 12% CHROMIUM AND VARIABLE CONTENTS OF NICKEL, I Bordeasu,M O Popoviciu, I Mitelea, M Sava, **Duma S**, R Badarau, Conference: *International Conference on Applied Sciences (ICAS)* Location: Mil Econ Acad Wuhan, Wuhan, PEOPLES R CHINA Date: OCT 26-27, 2013 INTERNATIONAL CONFERENCE ON APPLIED SCIENCES 2015 (ICAS2013 Published: **2015 (ISI)**)

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E. Brevete obținute în întreaga activitate

1.

Data:

Semnătura:

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume: Turc Cristian-Gheorghe

Gradul didactic: Conferențiar

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: de Mecanică

Departamentul: Ingineria Materialelor și Fabricației

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Cercetări privind optimizarea prelucrării dimensionale prin eroziune electrochimică, Tehnologia Construcțiilor de Mașini, 1999, Universitatea "POLITEHNICA" din Timișoara, decizia 4703/14.10.1999.

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Niemann J., Tichkiewitch S., Westkämper E. (Eds.), Life cycle modeling, in Design of Sustainable Product Life Cycle, Springer, 2009, ISBN 978-3-540-79081-5, 5 pag.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Turc, CG; Carausu, C; Belgiu, G, Part cost estimation in injection moulding, Proceedings of the 6th International Conference on Modern Technologies in Industrial Engineering (ModTech) 2018, 2018, Iasi, ISSN: 1757-8981, Pag. 7
2. Belgiu George, Turc Cristian-Gheorghe, Carausu Constantin, Selection of Subtractive Manufacturing Technology Versus Additive Manufacturing Technology for Rapid Prototyping of a Polymeric Product, MATERIALE PLASTICE, Vol. 57(4), 2020, ISSN 2668-8220, pag. 343
3. Belgiu, G; Carausu, C; Serban, D; Turc, CG, Product management of making large pieces through Rapid Prototyping PolyJet((R)) technology, Proceedings of the 5th International Conference on Modern Technologies in Industrial Engineering (ModTech) 2017, Iasi, ISSN: 1757-8981, Pag. 7
4. Turc, CG; Carausu, C; Belgiu, G, Cost analysis in injection moulded plastic parts designing, Proceedings of the 5th International Conference on Modern Technologies in Industrial Engineering (ModTech) 2017, Iasi, ISSN: 1757-8981, Pag. 8
5. Turc C., Belgiu G., Banciu F. - Setting-up of a cutting forces measurement system, ACTA Universitatis Cibiniensis Series, Vol. LXVI 2015 © 2015 "Lucian Blaga" University of Sibiu, De Gruyter, 2015, DOI: 10.1515/aucts-2015-0051, GOOGLE SCHOLAR

D. Lucrări publicate în ultimii 10 ani în reviste și volume de conferințe cu referenți (neindexate)



- Reviste

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E. Brevete obținute în întreaga activitate

1. Cristian Turc, Aurel Tulcan, Octavian Oancă, Daniel Stan, Dispozitiv portscula, cu sistem de activare ultrasonica incorporat, pentru prelucrare prin aschiere, abrazare si eroziune ultrasonica, Universitatea Politehnica Timisoara, ISIM Timisoara, SC SMD SRL Timisoara, RO 128369-A0/30.05.2013
2. Daniel Stan, Tudor Iclanzan, Aurel Tulcan, Cristian Turc, Cristian Cosma, Adrian Dume, Liliana Tulcan, Matrita cu activare ultrasonica, Universitatea Politehnica Timisoara, RO 129156-A0/30.01.2014

Data: 17.06.2026

Semnătura:

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume: Cosma Cristian

Gradul didactic: Conferențiar

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: Mecanică

Departamentul: Ingineria Materialelor și Fabricației

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Studii privind optimizarea tehnicii de Reverse Engineering la realizarea produselor injectate din materiale polimerice, Universitatea Politehnica Timisoara, 26.03.2008

B. Cărți si capitole în cărți publicate în ultimii 10 ani

1. Cosma Cristian, Tehnologii de prototipare și fabricație rapidă – Curs, Editura Politehnica, ISBN 978-606-35-0548-5, 88 pag, 2023;
2. Cosma Cristian, Prototipare și fabricație rapidă – Aplicații, Editura Politehnica, ISBN 978-606-35-0372-6, 90 pag, 2020, 90 pag;
3. Cosma Cristian, CNC Programming – Course book, Editura Eurobit, ISBN 978-973-132-628-3, 63 pag, 2020;
4. Cosma Cristian, Fabricație asistată de calculator – format electronic, 87 pag.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Savu, SV; Tarnita, D; Stefan, I; Benga, GC; Savu, ID; Sîrbu, NA; Dumitru, I; Ciungu, MA; Ursu, M; Cosma, C - Research on the Influence of the Defects of Materials on Thermal Runaway in Microwave Hybrid Heating for Sintering Processes, APPLIED SCIENCES-BASEL, Volume 15, Issue 8, DOI10.3390/app15084115, 2025.
2. Cosa Alexandru, Ususan Alexandra, Cosma Cristian, Serban Dan - Size and build orientation effect on the tensile properties of polymers manufactured through stereolithography, ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING, Volume 68, Page 139-146, 2025-05-01.
3. Timpea Stefan Adrian, Dume Adrian, Dzitac Vasile, Cosma Cristian, Serban Viorel-Aurel - Design methodology for a radius implant using CATIA V5 R19, ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING, Volume 68, Page 383-390, 2025-05-01.

4. Tîmpea, SA; Codrean, C; Sîrbu, NA; Dume, AI; Cosma, C; Serban, VA - Compressive Behavior of Various BCC Lattice Structure, NANO HYBRIDS AND COMPOSITES, Volume 41, Page 39-45, DOI10.4028/p-VO3r4q, 2024.
5. Timpea, Stefan; Cosma, Cristian; Sosdean, Danut - Touch screen tester device end-effector, MATERIALE PLASTICE Volume: 56 Issue: 2 Pages: 445-448 Published: JUN 2019, ISI.
6. Codrean, Cosmin; Cosma, Cristian; Tosa, Dacian; et al. - Composite Materials Fabricated of Amorphous and Nanocrystalline Metallic Powders, MATERIALE PLASTICE Volume: 56 Issue: 4 Pages: 744-749 Published: DEC 2019; ISI.
7. Timpea, Stefan; Cosma, Cristian; Codrean, Cosmin; Magda, Aurelian - Design of a bionic arm using rapid prototyping technology, Hidraulica, No. 4/2019, ISSN 1453-7303.
8. Andrei Adam, Cristian Cosma, Danut Sosdean, Andrei Filip - Designing an Injection Mould Using Advance CAD-CAM Programs, Solid State Phenomena (Volume 254), pp. 267-271, <https://doi.org/10.4028/www.scientific.net/SSP.254.267>, 2016.
9. Adam Andrei, Cosma Cristian, Comsa Alexandru, Pop Adrian - Redesigning a Product Using Modern CAD-CAM Software, Procedia Technology, [Volume 19](#), 2015, Pages 221-227, Elsevier.

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E. Brevete obținute în întreaga activitate

1. Tudor Iclanzan, Daniel Stan, Aurel Tulcan, Cristian Cosma, Adrian Dume, Liliana Tulcan - Matrita si procedeu de injectare a pieselor miniaturale, RO129443-A0, dec 2013.
2. Daniel Stan, Tudor Iclanzan, Aurel Tulcan, Cristian Turc, Cristian Cosma, Adrian Dume, Liliana Tulcan - Matrita cu activare ultrasonica, RO129156-A0, apr 2013.
3. Tudor Iclanzan, Daniel Stan, Valentin Seiculescu, Aurel Tulcan, Cristian Cosma - Matrita pentru microinjectare, RO 122811, feb 2010.
4. Daniel Stan, Aurel Tulcan, Cristian Cosma - Dispozitiv pentru uscarea cablurilor cu invelis polimeric extrudat, RO 121874, iun 2008.

Data: 22.06.2026

Semnătura:

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume: RADU Bogdan.....

Gradul didactic: conf. dr. ing.....

Instituția unde este titular: Universitatea Politehnica Timisoara.....

Facultatea: Mecanica.....

Departamentul: IMF.....

L I S T A
lucrărilor științifice în domeniul disciplinelor din postul didactic**A. Teza de doctorat**

Contribuții privind optimizarea procesului de sudare prin frecare a oțelurilor disimilare

Știința și Ingineria Materialelor

1999

diploma seria A nr. 0000958, ordin Ministrului Educației Naționale nr. 3337 din 08.03.2000

B. Cărți și capitole în cărți publicate în ultimii 10 ani**C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani**

1. B. Radu, C. Codrean, R. Cojocaru, C. Ciucă - Numerical Modeling of Thermal Field Distribution during Friction Stir Welding (FSW) of Dissimilar Materials, Cristian International Conference Advanced Materials and Structures, AMS'15, Timisoara 16-17.10.2015 (Solid State Phenomena 254, 261-266)
2. B. Radu, I. Hulka, R. Cojocaru, C. Ciucă - Microstructural Transformation during Dissimilar Friction Stir Welding (FSW) of Aluminum – Copper Alloys, International Conference Advanced Materials and Structures, AMS'15, Timisoara 16-17.10.2015 (Solid State Phenomena 254, 65-70)
3. B. Radu, D. Buzdugan, C. Codrean, V-A Serban, V. George, Numerical model of thermal field developed in Fe67Cr4Mo4Ga4P12B5C4 bulk amorphous alloy processing, Solid State Phenomena, vol 254, pp. 249-254, 2016
4. M Iordache, E Nitu, C Badulescu, D Iacom, LN Boțilă, B Radu, „Evaluation of Thermal Distribution in Friction Stir Welding on Dissimilar Materials (Cu-Al) Using Infrared Thermography and Numerical Simulation”, Advanced Materials Research 1138, 113-118, 2016
5. C. Codrean, D. Buzdugan, B. Radu, V-A Serban, Induction brazing of copper parts using amorphous brazing alloys, Materials Science Forum vol. 907 MSF, pp.206-213, 2017
6. C. Codrean, B. Radu, D. Buzdugan, C. Oprea - Simulation of Thermal Field in Bulk Amorphous Steels, IOP Conference Series: Materials Science and Engineering, Vol. 416, Issue 126 October 2018 Article number 012021, 2018

7. B. Radu, V. Ungureanu, I. Both, M. Burcă, S. Benzar, D. Dubină - Experimental Investigations on Capabilities of Resistance Spot Welding and MIG Brazing for Producing Corrugated Beams Using Galvanized Steel Sheets, Advanced Materials Research, online in June 2021
8. M. Nicolaescu, C. Codrean, E. Binchiciu, B. Radu – Production of Bulk Metallic Glasses by Ultrasonic Welding of Nickel Based Amorphous Ribbons, Advanced Materials Research, online February 2020
9. Viorel Ungureanu, Ioan Both, Mircea Burca, Bogdan Radu, Calin Neagu, Dan Dubina: Experimental and numerical investigations on built-up cold-formed steel beams using resistance spot welding. Thin-Walled Structures, 161 (2021) 107456
10. C. Codrean, D. Buzdugan, B. Radu, G. Melcioiu - Study on Soldering Alloy Structure Influence on Whiskers Germination and Grow Process in Joints Executed Using Tin Base Soldering Alloys, Defect and Diffusion Forum, Volume 416, Pages 123 - 130, 2022
11. B Radu, I Hulka, R Cojocar, C Ciucă, LN Boțilă, „Microstructural Characterization of the Friction Stir Welding (FSW) Joints from Dissimilar Metallic Aluminium-Copper Alloys”, Advanced Materials Research 1146, 121-125
12. C Ighisan, B Radu, C Ciucă, „Mathematical Modelling of Material Flow during Friction Stir Welding of Aluminium Alloys”, Advanced Materials Research 1146, 115-120

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

- Selecție cu maximum 20 lucrări în volume de conferințe

E. Brevete obținute în întreaga activitate

Data:

12.06.2026

E – Brevete (pentru întreaga activitate)

Semnătura:

A N E X A 4 . 1

Nume Prenume: Tulcan Aurel

Gradul didactic: Profesor

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: Mecanică

Departamentul: Ingineria Materialelor și Fabricației

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

1. Tulcan Aurel, domeniul Inginerie Industrială/ Tehnologia Construcțiilor de Mașini, *Studiul liniilor automate flexibile de presare la rece*, Universitatea Politehnica Timișoara, 26.02.1999, OMEN nr. 5086 / 01.07.1999

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Aurel Tulcan, *Tehnologii de deformare plastică-îndrumător de lucrări de laborator*, Editura Politehnica, Timișoara, 2019, ISBN 978-606-35-0305-4
2. Aurel Tulcan, *Tehnologii de deformare plastică. Proiectarea ștanțelor și matrițelor*, Editura Politehnica Timișoara, 2021
3. Aurel Tulcan, *Tehnologii de deformare plastică. Elemente de proiectare a ștanțelor și matrițelor*, Editura Politehnica Timișoara, 2021
4. Aurel Tulcan, *Măsurări tridimensionale. Aplicații specifice în PC-DMIS*, Editura Politehnica Timișoara, 2022
5. Aurel Tulcan, Liliana Tulcan, Tudor Iclănzan, *Sisteme de control*, Editura Politehnica, Timișoara, 2006, ISBN 73-625-022-9
6. Aurel Tulcan, *Sisteme flexibile de fabricație prin presare la rece*, Editura Politehnica, Timișoara, 2002, ISBN 73-625-022-9

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Pop Cristian, Sticlaru Carmen, Pop Florina, **Tulcan Aurel**, Tulcan Liliana, *Study on AI-generated 3D printed ABS parts: influence of infill type and percentage using factorial ANOVA, regression, and multi-objective optimization*, Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, ISSN 1221-5872, Vol 68(SI) 2025, FI 0.1, WOS:001612666100015, **ISI**
2. Draghici Anca, Niemann Joerg, Ocakci Elif, Găureanu Alin, **Tulcan Aurel**, *Standards taxonomy supporting manufacturing in Industry 4.0 toward 5.0*,

Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, ISSN 1221-5872, Vol 68(SI) 2025, FI 0.1, WOS:001789292800022, **ISI**

3. Popescu, Cristian-Eusebiu, **Tulcan Aurel**, But Adrian, *Study on the measurement error analysis of an OMM measurement system using a probing module CAD-CAM software*, Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, ISSN 1221-5872, Vol 68(SI) 2025, FI 0.1, WOS:001789292800033, **ISI**
4. **Tulcan Aurel**, Banciu Felicia, Grozav Ion, *Cost optimisation for assigned tolerance to a 2D dimensional chain using GeoGebra software*, Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, ISSN 1221-5872, Vol 67(2) 2024, FI 0,1, WOS:001362561700027; **ISI**
5. **Tulcan Aurel**, Banciu Felicia, Grozav Ion, Analysis and allocation of dimensional tolerances using GeoGebra software, Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, 2022, Vol 65(4), pp. 1409-1416, ISSN 1221-5872, WOS:000969679100058, **ISI**
6. **Tulcan Aurel**, Banciu Felicia, Tulcan Liliana, Grozav Ion, Theoretical model for calculate the elastic and contact deformations of the positioning elements of a 3-2-1 fixture system, Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, 2022, Vol 65(1), pp. 253-260, ISSN 1221-5872, WOS:000773188500027, **ISI**
7. **Tulcan Aurel**, Vasilescu Mircea Dorin, Tulcan Liliana, Comparative Study of the Influence of Bio-Resin Color on the Dimension, Flatness and Straightness of the Part in the 3D Printing Process, Polymers, 2021, Vol 13(9), ISSN 2073-4360, DOI:10.3390/polym13091412; WOS:000650706300001, **ISI (Q1)**
8. **Tulcan Aurel**, Vasilescu Mircea Dorin, Tulcan Liliana, Study of the Influence of Technological Parameters on Generating Flat Part with Cylindrical Features in 3D Printing with Resin Cured by Optical Processing, Polymers, 2020, Vol 12(9), 1941, ISSN 2073-4360 (Q1), DOI: 10.3390/polym12091941; WOS:000579963900001, **ISI (Q1)**
9. Adam A., Stan D., **Tulcan A.** - Evaluation of specific process parameters and ultrasonically activated injection affecting the quality of filling in thin walled plastic parts, *J. of Theoretical and Applied Mechanics*, 2015, Vol. 53, Issue: 4, ISSN: 1429-2955, pp. 799-809, WOS: 000369506100004, **ISI**
10. **Tulcan Aurel**, Banciu Felicia Veronica, Grozav Ion, Tolerance allocation using Monte Carlo simulation, MODTECH INTERNATIONAL CONFERENCE - MODERN TECHNOLOGIES IN INDUSTRIAL ENGINEERING VIII, 2020, Vol 916(012122) /(10p), ISSN: 1757-8981, DOI: 10.1088/1757-899X/916/1/012122; WOS:000625330000122, **ISI Proceedings**
11. **Aurel Tulcan**, Liliana Tulcan, Design of experiments in CMM probe configuration study, 2016 International Conference on Production Research – Africa, Europe and the Middle East, 4th International Conference on Quality and Innovation in Engineering and Management, Cluj-Napoca, 2016, pp. 75-80, ISBN 978-606-737-180-2, WOS:000436122900013, **ISI Proceedings**
12. **Aurel Tulcan**, Felicia Banciu, Ion Grozav, Reactions of the locating pins calculation based on force and moment's separation method using a software program, 2016 International Conference on Production Research – Africa, Europe and the Middle East, 4th International

Conference on Quality and Innovation in Engineering and Management, Cluj-Napoca, 2016, pp. 81-86, ISBN 978-606-737-180-2, WOS: 000436122900014, **ISI Proceedings**

- 13. Tulcan Liliana, Tulcan Aurel**, Work security at industrial ultrasonics applications, Nonconventional Technologies Review, 2016, pp. 15-21, Vol (Nr.) XX(1), Print: ISSN 2359 – 8646; ISSN-L 2359 – 8646; **Copernicus, Proquest, Google Scholar**

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E. Brevete obținute în întreaga activitate

1. Stan D., Iclănzan T., **Tulcan A.**, Turc C., Cosma C., Dume A., Tulcan L., *Matrita cu activare ultrasonică*, RO129156-A0 /30.01.2014, RO-129156-A0, CBI, RO-a2013-00273 /03.04.2013, titular: Nano Inteliform Timisoara, ISI Derwent: DIIDW:2014-C42316
2. Turc C., **Tulcan A.**, Oancă O., Stan D., *Dispozitiv portscula, cu sistem de activare ultrasonica incorporat, pentru prelucrare prin aschiere, abrazare si eroziune ultrasonica*, RO 128369/ 30.09.2022 (RO 128369-A0 /30.05.2013 /CBI 780 /01.11.2012), titular: UPT, drept de utilizare pentru partenerul spaniol TECHNIKER, coordonator de program, ISI Derwent: DIIDW:2013-K35904
3. Iclănzan T., Stan D., **Tulcan A.**, Cosma C., Dume A., Tulcan L., *Matrita si procedeu de injectare a pieselor miniaturale*, RO 129443-A03, titular: UPT, ISI Derwent: DIIDW:2014-L22681
4. Iclănzan T., Stan D., Seiculescu V., **Tulcan A.**, Cosma C., *Matrita pentru microinjectare*, RO 122811-B1 /26.02.2010, titular: UPT, ISI Derwent: DIIDW:2010-K26941
5. Stan D., **Tulcan A.**, Cosma C., *Dispozitiv pentru uscarea cablurilor cu invelis polimeric extrudat*, RO 121874 /30.06.2008

F. Contracte de cercetare

Nr.	Echipa	Denumire	Nr. contract	Perioada	Valoarea
1	Tulcan Aurel (Dir.) , Tulcan Liliana	Formare profesională privind interpretarea desenelor și măsurarea tridimensională a produselor specifice companiei FLEX	Contract CEP 107 /27.10.2025 SC Flextronics	2025	15.200 Lei
2	Tulcan Aurel (Dir.) , Tulcan Liliana	Formare profesională privind specificarea geometrică a produselor specifice companiei AKWEL	Contract CEP 106 /21.10.2025 SC Akwel	2025	4.800 lei

3	Tulcan Aurel (dir.) , Țucu Dumitru, Ilie Mariana, Ciupe Valentin, Gubencu Dinu, Duma Sebastian, Magda Aurelian, Crainic Nicolae, Argeșanu Veronica	Descoperă Contitech 2024	Contract BC 32/08.05.2024 SC Contitech	2024	13.328 lei
4	Tulcan Aurel (Dir.) , Tulcan Liliana	Cercetări și consultanță tehnică privind specificarea geometrică a produselor specifice companiei ZIR	Contract BC 96 / 21.11.2024 SC Zoppas Industries	2024	9.040 lei
5	Tulcan Aurel (Dir.) , Tulcan Liliana	Formare profesională privind specificarea geometrică a produselor specifice companiei AKWEL	Contract CEP 92 /10.10.2024 SC Akwel	2024	4.200 Lei
6	Tulcan Aurel (Dir.) , Tulcan Liliana	Formare profesională privind specificarea geometrică a produselor specifice companiei FLEX	Contract CEP 93 /21.11.2024 SC Flextronics	2024	9.000 lei
7	Tulcan Aurel (Dir.) , Tulcan Liliana	Formare profesională privind specificarea geometrică a produselor și măsurarea tridimensională a unor produse specifice companiei AKWEL	Contract CEP 79 / 10.04.2024 SC Akwel	2024	9.540 lei
8	Tulcan Aurel (Dir.) , Tulcan Liliana	Formare profesională privind specificarea geometrică a produselor specifice companiei AKWEL	Contract CEP 92 / 10.10.2024 SC Akwel	2024	4.200 lei
9	Tulcan Aurel (dir.) , Țucu Dumitru, Ilie Mariana, Ciupe Valentin, Gubencu Dinu, Duma Sebastian, Magda Aurelian, Crainic Nicolae, Borozan Ion	Descoperă Contitech 2023	Contract BC 37 / 28.04.2023 SC Contitech	2023	9.520 lei
10	Tulcan Aurel (Dir.) , Tulcan Liliana	Specificarea geometrică a produselor: desen tehnic, toleranțe și măsurări tridimensionale	Contract nr. CEP 59/16.12.2022 SC Flextronics	2022	10.976 lei
11	Tulcan Aurel (Dir.) , Stan Daniel	Cercetări și consultanță tehnică privind optimizarea procesului de injectare și creșterea competențelor în domeniul Plasturgiei	Contract nr. BC 88/07.11.2022 Asociația Profimatt	2022	9.141 lei

12	Tulcan Aurel (Dir.) , Tulcan Liliana	Cercetări și consultanță tehnică privind ameliorarea calității la măsurarea tridimensională a unor produse din materiale polimerice specifice companiei PLASESS	Contract nr. BC 17/26.01.2021 SC Plasess	2021	6.545 lei
13	Tulcan Aurel (Dir.) , Mărgineanu Dan, Tulcan Liliana	Cercetări privind optimizarea soluțiilor de proiectare organe de mașini și scule de presare specifice companiei Zoppas	Contract nr. BC 39/01.04.2021 SC Zoppas Industries	2021	14.101 lei
14	Tulcan Aurel (Dir.), Daniel Stan, Liliana Tulcan	Cercetări privind ameliorarea calității sistemelor de iluminat din industria auto	Contract nr. BC 11/14.02.2017, Act adițional nr.5 din 29.01.2025 SC Hella	2017-2027	65.450 lei
15	Tulcan Aurel (Dir.)	Cercetări și consultanță tehnică privind ameliorarea calității la măsurarea tridimensională a unor produse specifice companiei Continental automotive	Contract nr. BC 35/03.04.2019	2019	27.370 Lei
16	Tulcan Aurel (Dir.)	Cercetări și consultanță tehnică privind specificarea geometrică a produselor specifice companiei Continental automotive	Contract nr. BC 9/22.01.2019	2019	3.808 lei
17	Tulcan Aurel (dir.) , Drăgan Florin, Tulcan Liliana, Turc Cristian, Dume Adrian, Cosma Cristian, Stef Dorian, Dungan Luisa, Macarie Isabela, Nagy Gabriela, Birtea Adina	Dezvoltarea unui accelerator de afaceri studențesc în cadrul societății antreprenoriale studențești din Universitatea Politehnica Timișoara (DAAS SAS-UPT)	CNFIS-FDI_2018-0533	2018	164.400 lei
18	Tulcan Aurel (Dir.)	Cercetări privind ameliorarea calității produselor - elemente de încălzire - specifice companiei Zoppas	Contract BC 38 / 14.05.2018	2018	9.996 lei
19	Tulcan Aurel (Dir.) , Tulcan Liliana	Cercetări și consultanță tehnică privind specificarea geometrică a produselor și măsurarea pieselor pe mașini de măsurat tridimensional	Contract nr. BC 36/10.04.2017	2017	6.248 lei
20	Tulcan Aurel (Dir.)	Cercetări și consultanță tehnică privind specificarea geometrică a produselor specifice companiei FLEX	Contract nr. BC 85/03.10.2017	2017	5.593 lei

21	Tulcan Aurel (Dir.) , Daniel Stan, Liliana Tulcan, Florina Pop, Cristian Pop	Cercetări și consultanță tehnică privind ameliorarea calității la măsurarea tridimensională a unor produse din materiale polimerice	Contract nr. BC 77/21.07.2016	2016	8.272 lei
22	Tulcan Aurel (Dir.) , Liliana Tulcan, Florina Pop, Cristian Pop	Specificarea geometrică a unor produse din industria auto	Contract nr. CEP 22/04.11.2016	2016	4.382 lei
23	Herban Sorin (dir.) , Tulcan Aurel , Stanciu Loredana, Dumitrel Alina, Mățiu-Iovan Liliana, Grecea Carmen, Socalici Ana, Tămășilă Matei, Mușuroi Sorin, Dejica Daniel, Grecea Daniel, ș.a.	Asigurați Viitorul prin Educație și Antreprenariat - AVEA Proiect cofinanțat din Fondul Social European prin Programul Operațional Capital Uman 2014-2020 Axa prioritară 6 - Educație și competențe Perioada 01.09.2019-2021	POCU/379/6/21/6.7/6.9/6-10/123900/	2019-2021	7.858.769 lei

Data: 20.06.2026

Semnătura:

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume: Magda Aurelian

Gradul didactic: Sef de lucrări

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: Mecanică

Departamentul: Ingineria Materialelor și Fabricației

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Contribuții privind sudarea oțelurilor acoperite, Universitatea Politehnica Timișoara anul susținerii : 2009

B. Cărți si capitole în cărți publicate în ultimii 10 ani

1. Acoperiri Termice și Recondiționări. Aplicații, autori: A. FEIER si A. Magda ,ISBN-ul - 978-606-35-0403-7, Ed. Politehnica , 2020
2. Tehnologii de asamblare, curs, campus virtual 2023
3. Tehnologia sudării, curs, campus virtual 2024

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. 1. Aurelian Vasile Magda, Cosmin Codrean: Corrosion Resistance Testing of the Galvanized Sheet Metal Braze Welding Joints, [Advances in Fracture and Damage Mechanics XIII](#), Key Engineering Materials Vol. 627 (2015)
2. Negru, R., Șerban, D.A., Marșavina, L., Magda, A.: 5. Lifetime prediction in medium-cycle fatigue regime of notched specimens, Theoretical and Applied Fracture Mechanics 84, pp. 140-148, 2016
3. Burca, M., Lucaciu, I., Magda, A.: Technological particularities regarding manual metal arc welding using pulsed current for butt joints, METAL 2017 - 26th International Conference on Metallurgy and Materials, Conference Proceedings, 2017
4. Magda, A., Burca, M., Lego, M.: Research Regarding Capacitor Discharge Stud Welding with Tip Ignition on Galvanized Thin Sheets, IOP Conference Series: Materials Science and Engineering, 2018
5. Anamaria Feier, Aurelian Magda, Felicia Banciu, Edward Petzek: Deflection and precambering study of VFT beams in the welded joints, Elsevier- Materials Today: Proceedings, 2020

6. ȘA Țîmpea, C Cosma, C Codrean, A Magda: Design of a Bionic Arm Using Rapid Prototyping Technology, Hidraulica Journal, 2019
7. C Codrean, A Magda, M Burcă, D Buzdugan: Advanced Metallic Materials with Amorphous Structure Used for Resistance Brazing Joints, Advanced Materials Research 1111, 37-42, 2015

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E. Brevete obținute în întreaga activitate

1.

Data:

Semnătura:

E – Brevete (pentru întreaga activitate)

A N E X A 4 . 1

Nume Prenume: Străuți Gabriela

Gradul didactic: șef lucrări

Instituția unde este titular: Universitatea Politehnica Timișoara

Facultatea: Management în Producție și Transporturi

Departamentul: Management

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Strauti Gabriela, Corelarea parametrilor de calitate a imaginii cu tehnologia de execuție și montaj a sistemelor optomecanice, Universitatea Politehnica Timisoara, 02.09.2005

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Gabriela Străuți – Studii de caz antreprenoriale, Editura Politehnica Timisoara, 2019, ISBN 978-606-35-0321-4

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Golosie, GD; Gaureanu, A; Strauti, G; Tamasila, M, The impact of color on workplace efficiency. a study for engineering offices in the field of research and development, ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING, ISSN 1221-5872, eISSN 2393-2988, 2025
2. A Pugna, S Potra, G Strauti, I Taucean, M Pop, Using Six Sigma Methodology to Improve the Resistance Spot Welding Process in an Automotive Company, Management, Innovation and Entrepreneurship in Challenging Global Times, 2024
3. S Potra, A Pugna, G Strauti, I Taucean, L Cernescu, Using Six Sigma Methodology to Reduce the Processing Time in the Pre-assembly Area of an Automotive Company, Management, Innovation and Entrepreneurship in Challenging Global Times, 2024
4. IM Taucean, AG Strauti, M Tion, Roadmap to entrepreneurial university–Case study, Procedia-Social and Behavioral Sciences 238, 582-589, 2018
5. G Strauti, VM Dumitrache, IM Taucean, Entrepreneurial competences in economical engineering curriculum in Romania, Procedia-Social and Behavioral Sciences 238, 737-742, 2018
6. I Taucean, AG Strauti, M Tamasila, S Miclea, Assessing expectation and perception of service quality. Case study of a romanian university, Management Challenges in a Network Economy: Proceedings of the MakeLearn, 2017
7. Tăucean Ilie Mihai, Tămășilă Matei, Strauti Gabriela, STUDY ON MANAGEMENT STYLES AND MANAGERIAL POWER TYPES FOR A LARGE ORGANIZATION, 13th International



Symposium in Management - Management During and after the Economic Crisis (SIM), ISBN 1877-0428, pg 66-75, WOS: 000381938100008, 2015

8. Pugna A, Strauti Gabriela, Negrea R, THE IMPORTANCE OF DEVELOPING ENTREPRENEURIAL SKILLS THROUGH SPECIFIC MODULES IN HIGHER EDUCATION INSTITUTIONS, Edulearn15: 7th international conference on education and new learning technologies, ISBN 2340-1117, pg 5277-5285, WOS: 000376685705048, 2015

D. Lucrări publicate în ultimii 10 ani în reviste și volume de conferințe cu referenți (neindexate)

Reviste

- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E. Brevete obținute în întreaga activitate

1.

Data:

Semnătura:

09.03.2026