|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Nr. Crt. | Cărţi si capitole în cărţi publicate în ultimii 5 ani | | | | | | |
|  | Platon M.A., Nemeş O., Tiuc AE., **Vasile O.**, Paduretu S., *Phono-Absorbent Behavior of New Fiberglass Plates from Mixed Plastic Material Wastes*, Book Chapter, Advanced Structured Materials, 2021, 149, pp. 67–76, Publisher: Springer Nature, Source type: Book Series, ISSN 1869-8433, DOI 10.1007/978-3-030-68277-4\_5 (SCOPUS - indexed) | | | | | | |
|  | N. Costea, A. Kristaly & C. Varga, Variational and Monotonicity Methods in Nonsmooth Analysis, Birkhauser (Springer Nature), Frontiers in Mathematics series, 2021, ISBN 978-3-030-81670-4. | | | | | | |
|  | Mihaela Pricope, Cristina-Mihaela Nistor, Mirela-Sanda Sălvan, Aspecte interculturale în predarea și învățarea limbii române ca limbă străină, Editura Universitară, București, 2021, ISBN 978-606-28-1323-9, 206 p. cod CNCSIS 180 | | | | | | |
|  | Andrea MARCONI, Anita MONTAGNA, **Paulina SPANU**, Mihaela Elena ULMEANU, Cristian Vasile DOICIN, Erika VAIGINIENÉ, John BETHANIS, Nikolaos KOKOSIS . *Academic civic commitment through Public Engagement in the Third Mission*. Egregius Editorial, Seville – 2023 .ISBN: 978-84-1177-035-4, 168 pg | | | | | | |
|  | Barradas, R., Lencastre, J. A., Bento, M., Soares, S., & Valente, A. **Paulina SPANU ..**. *Robots in Action*. CIEd/IE/UMinho. ISBN 978-989-8525-78-9 https://robotsforstem.e/io6/ (2023) 327 pag | | | | | | |
|  | **Paulina SPÂNU**, „*Programarea Calculatoarelor, Îndrumar de proiectare bilingv* (Român – Englez) ” Editura PRINTECH, (cod CNCSIS 54), ISBN 978-606-23-1383-8, 2022. 134 pag | | | | | | |
|  | José Alberto LENCASTRE, **Paulina SPÂNU**, Gülden İLIN, Panos MILIOS, Marco BENTO, *Mobile Robotics* ,Printed in Istanbul, Turkey at Öz Karacan Printers and Binders, Güneşli, Bağcılar,İstanbul, ISBN : 978-605-70651-1-7, pag 192,2022" | | | | | | |
|  | José Alberto LENCASTRE, **Paulina SPÂNU**, Gülden İLIN, Panos MILIOS, Marco BENTO, *Gaming in Action* , Printed in Istanbul, Turkey at Öz Karacan Printers and Binders, Güneşli, Bağcılar,İstanbul, ISBN : 978-605-70651-0-0, pag 259,2021" | | | | | | |
|  | **Paulina SPÂNU**, Jose Alberto LANCASTRE, Marco BENTO, Gulden ILIN, Panos MILIOS, *Book with apps and pedagogical practices using game-based learning and gamification in innovative pedagogical scenarios*, Editura PRINTECH, București 2021, ISBN 978-606-23-1263-3, pg 72 | | | | | | |
|  | Andrea MARCONI, Anita MONTAGNA, **Paulina SPANU**, Mihaela Elena ULMEANU, Cristian Vasile DOICIN, Erika VAIGINIENÉ, John BETHANIS, Nikolaos KOKOSIS . *Academic civic commitment through Public Engagement in the Third Mission*. Egregius Editorial, Seville – 2023 .ISBN: 978-84-1177-035-4, 168 pg | | | | | | |
|  | Ş.D. Pastramă - Strength of Materials 1, ISBN 978-606-250-642-1, Editura MatrixRom, Bucuresti, 2021 | | | | | | |
|  | A. PENA – Programarea mașinilor-unelte, ed. BREN, ISBN 978-606-610-321-3, 2024 | | | | | | |
|  | B2. ANANIA Florea Dorel, PENA Andra Elena – Fabricație Asistată EDGECAM. Teorie și aplicații pentru prelucrări în 2.5axeNC, ed. BREN, ISBN 978-606-610-319-0, 2024 | | | | | | |
|  | Victor MOISE, Ion SIMIONESCU, Marin ENE, Liviu Marian UNGUREANU, Alexandra ROTARU, Studiul şi animaţia mecanismelor aplicate. Aplicaţii în Matlab, ISBN 978-606-23-1173, Editura Printech, Bucureşti 2021 | | | | | | |
|  | Elisabeta NICULAE, Alexandra ROTARU, George ADÎR, Liviu UNGUREANU, Iulian MUNTEANU, Mecanisme. Lucrări de laborator, Ed. Printech, Bucureşti 2024, ISBN 978-606-23-1552-8 | | | | | | |
| Nr. crt. | Articole/Lucrări publicate în reviste de specialitate | | | | | | |
|  | Scutaru M.L., **Vasile O.**, Method To Determine the Elastic Constants of Polymeric Fibers Reinforced Composite Using Finite Element Vibration Analysis, Romanian Journal of Acoustics and Vibration, Vol. 21, Issue 1, pp. 60-69, 2022, ISSN: 1584-7284, Accession Number: WOS: 001288964400008; 2023 Impact Factor = 0,7 | | | | | | |
|  | Barta D.G., Simion I., Tiuc, A.E., **Vasile O.**, Mycelium-Based Composites as a Sustainable Solution for Waste Management and Circular Economy, MATERIALS, Vol. 17, Issue 2, Article Number 404 Published JAN 2024, DOI: 10.3390/ma17020404, WOS:001151064400001, 2023 Impact Factor = 3,1 | | | | | | |
|  | **Vasile O.**, Bugaru M., A New Modeling Approach for Viscous Dampers Using an Extended Kelvin-Voigt Rheological Model Based on the Identification of the Constitutive Law's Parameters, COMPUTATION, Vol.: 11, Issue: 1, Article Number: 3, DOI: 10.3390/computation11010003, Published: JAN 2023, Accession Number: WOS:000917110700001, 2022 Impact Factor = 2,2 | | | | | | |
|  | **Vasile O.**, Bugaru M., Experimental vs. Numerical Computation of Acoustic Analyses on the Thickness Influence of the Multilayer Panel, COMPUTATION, Vol.: 11, Issue: 1, Article Number: 1, DOI: 10.3390/computation 11010001, Published: JAN 2023, Accession Number: WOS: 000916855700001, 2022 Impact Factor = 2,2 | | | | | | |
|  | Tiuc A.E., Borlea S.I., Nemes O., Vermesan H., **Vasile O.**, Popa F., Pintoi R., New Composite Materials Made from Rigid/Flexible Polyurethane Foams with Fir Sawdust: Acoustic and Thermal Behavior, POLYMERS, Vol. 14, Issue 17, 2022, Article Number 3643, DOI: 10.3390/polym14173643, eISSN 2073-4360, WOS: 000851686300001, 2021 Impact Factor = 4,967 | | | | | | |
|  | Bugaru M., **Vasile O.**, Neagoe M., Analysis of noise reduction and the influence of wave's diffraction angle using noise barriers, Acta Technica Napocensis Series-Applied Mathematics Mechanics And Engineering, Volume: 65, Issue: 1, Special Issue: SI, Pages: 29-36 Published: MAR 2022, Accession Number: WOS: 000832312500005, 2022 Impact Factor = 0,3 | | | | | | |
|  | Bugaru M., **Vasile O.**, A New Robust Method to Investigate Dynamic Instability of FTV for the Double Tripod Industrial Driveshafts in the Principal Parametric Resonance Region, APPLIED SCIENCES-BASEL, Vol. 12, Issue 12, 2022, Article Number 6182, DOI: 10.3390/app12126182, eISSN 2076-3417, WOS: 000818408300001, 2021 Impact Factor = 2,838 | | | | | | |
|  | Denes T.O., Istoan R., Tamas-Gavrea D.R., Manea D.L., Hegyi A., Popa F., **Vasile O.**, Analysis of Sheep Wool-Based Composites for Building Insulation, POLYMERS, Vol. 14, Issue 10, 2022, Article Number 2109, DOI: 10.3390/polym14102109, eISSN 2073-4360,  WOS: 000801570300001, 2021 Impact Factor = 4,967 | | | | | | |
|  | Bugaru M., **Vasile O.**, Modeling and Analysis of FBV Movements for Automotive Driveshafts in the PPR Region, APPLIED SCIENCES-BASEL, Vol. 12, Issue 7, 2022, Article Number 3237, DOI: 10.3390/app12073237, eISSN 2076-3417, WOS: 000781051300001, 2021 Impact Factor = 2,838 | | | | | | |
|  | Nitu S.A., Sporea N., Iatan R., Durbaca I., **Vasile O.**, Ciocoiu G.C., Research on Obtaining Biocomposite Structures with Sound Absorbing Properties, Materiale Plastice, Vol. 59, Issue 1, pp. 131-137, 2022, DOI: 10.37358/MP.22.1.5566, ISSN 2668-8220, eISSN 0025-5289  WOS: 000783749900007, 2021 Impact Factor = 0,782 | | | | | | |
|  | Bratu P., Vlase S., Dragan N., **Vasile O.**, Itu C., Nitu C.M., Toderita A., Modal Analysis of the Inertial Platform of the Laser ELI-NP Facility in Magurele-Bucharest, Romanian Journal of Acoustics and Vibration, Vol. 19, Issue 2, pp. 112-120, 2022, ISSN: 1584-7284, Accession Number: WOS:000949932000008; 2022 Impact Factor = 0,4 | | | | | | |
|  | Hatiegan C., Gillich G.R., **Vasile O.**, Hamat C.,Stroia M.D., Predus M.F., Improved Mathematical Relation of The Modal Shapes of Thin Rectangular Plates, Romanian Journal of Acoustics and Vibration, Vol. 19, Issue 2, pp. 157-163, 2022, ISSN: 1584-7284, Accession Number: WOS:000957119200002; 2022 Impact Factor = 0,4 | | | | | | |
|  | Potitniche A.M., **Vasile O.**, Capatana G.F., Modal Analysis of a Mechanical System Modeled as a 6 Degrees-of- Freedom Solid Body with Elastic Bearings and Structural Symmetries, Romanian Jurnal of Acoustics and Vibration, Vol. 19, Issue 1, pp. 36-40, 2022, ISSN 1584-7284, WOS: 000782978600006; 2022 Impact Factor = 0,4 | | | | | | |
|  | Bugaru M., **Vasile O.**, Neagoe M., Recent Developments of Noise Attenuation Using Acoustic Barriers for a Specific Edge Geometry, COMPUTATION, Vol. 9, Issue 12, Article Number 129, DOI: 10.3390/computation9120129, 2021, WOS:000736262800001 | | | | | | |
|  | Constantin M.A., Constantin L.A., Aradoaei S., Aradoaei M., Bratu M., **Vasile O.**, Acoustic Properties of a New Composite Material Obtained from Feather Flour and Recycled Polypropylene, MATERIALE PLASTICE, Vol. 58, Issue 4, pp. 84-93, 2021, DOI: 10.37358/MP.21.4.5534, ISSN 2668-8220, eISSN0025-5289, WOS: 000744132400004, 2021 Impact Factor = 0,782 | | | | | | |
|  | Tamas-Gavrea D.R., Istoan R., Tiuc A.E., Denes T.O., **Vasile O.**, Constantinescu H., Development of New Composite Products Based on Flax Fibres, COATINGS, Vol. 11, Issue 5, DOI: 10.3390/coatings11050551, 2021, eISSN 2079-6412, Article Number 551, WOS: 000653733600001, 2021 Impact Factor = 3,236 | | | | | | |
|  | Durbaca, I; Sporea, N; **Vasile, O**, “Assessment of the Acoustic Absorption Characteristics of Layered Composite Structures Obtained from Plates with Lignocellulosic Coatings (I)”, Materiale Plastice, ISSN: 2668-8220, Volume: 57, Issue: 2, Pages: 8-14, 2020.  WOS:000579451200029, 2021 Impact Factor = 0,782 | | | | | | |
|  | Borlea (Muresan), Simona Ioana; Tiuc, Ancuta-Elena; Nemes, Ovidiu; Vermesan, Horatiu; **Vasile, Ovidiu**, “Innovative Use of Sheep Wool for Obtaining Materials with Improved Sound-Absorbing Properties”, MATERIALS, Vol. 13, Issue 3, eISSN: 1996-1944, 2020.  WOS:000515503100201, 2021 Impact Factor = 3,748 | | | | | | |
|  | Tamas-Gavrea, Daniela-Roxana; Denes, Tuende-Orsolya; Istoan, Raluca; Tiuc, Ancuta Elena; Manea, Daniela Lucia; **Vasile, Ovidiu**, “A Novel Acoustic Sandwich Panel Based on Sheep Wool”, COATINGS, Volume: ‏ 10,Issue: 2, Article Number: 148   Published: ‏ FEB 2020, eISSN: 2079-6412  WOS: 00052248730005, 2021 Impact Factor = 3,748 | | | | | | |
|  | Bratu P., **Vasile O.**, Dobrescu C., Nițu M.C., Tonciu O., Dynamic Behavior of Vibratory System to Discrete Variation of Viscous Damping in Linear Viscoelastic Material Processing Technologies, Springer Proceedings in Physics, Volume 302, Pages 49 – 58, 2024, 17th International Conference on Acoustics and Vibration of Mechanical Structures, AVMS 2023, Timisoara, 26 May 2023 through 27 May 2023, Code 311229 (BDI: Google Scholar, SCOPUS) | | | | | | |
|  | Bratu P., Tonciu O., Dobrescu C., **Vasile O.**, The Dynamic Response of the Vibrating System in the Case of the Maxwell Rheological Model, Springer Proceedings in Physics, Volume 302, Pages 253 – 259, 2024, 17th International Conference on Acoustics and Vibration of Mechanical Structures, AVMS 2023, Timisoara, 26 May 2023 through 27 May 2023, Code 311229 (BDI: Google Scholar, SCOPUS) | | | | | | |
|  | Bratu P., Dobrescu C., **Vasile O.**, Tonciu O., Response of the Vibrating System to Discrete Monotonic Change in Voigt-Kelvin Rheological Stiffness, Springer Proceedings in Physics, Volume 302, Pages 245 – 252, 2024, 17th International Conference on Acoustics and Vibration of Mechanical Structures, AVMS 2023, Timisoara, 26 May 2023 through 27 May 2023, Code 311229 (BDI: Google Scholar, SCOPUS) | | | | | | |
|  | Bratu P., **Vasile O.**, Dobrescu C., Niţu C., Tonciu O., *Dynamic behavior of vibratory system to discrete variation of viscous damping in linear viscoelastic material processing technologies,* Acoustics and Vibration of Mechanical Structures - AVMS-2023: Proceedings of the 17th AVMS, Timişoara, Romania, May 26–27, 2023. | | | | | | |
|  | Bratu P., Dobrescu C., **Vasile O.**, Tonciu O., *Response of the vibrating system to discrete monotonic change in Voigt-Kelvin rheological stiffness,* Acoustics and Vibration of Mechanical Structures - AVMS-2023: Proceedings of the 17th AVMS, Timişoara, Romania, May 26–27, 2023. | | | | | | |
|  | Bratu P., Tonciu O., Dobrescu C., **Vasile O.**, *The dynamic response of the vibrating system in the case of the Maxwell rheological model,* Acoustics and Vibration of Mechanical Structures - AVMS-2023: Proceedings of the 17th AVMS, Timişoara, Romania, May 26–27, 2023. | | | | | | |
|  | **Vasile O.**, Bugaru M., *Analyzes on the influence of the thickness of a multilayer panel with a perforated sheet metal face*, Proceedings of the 10th International Conference from “Scientific Computing to Computational Engineering”, 10th IC-SCCE, Athens, 6-9 July, 2022, ©LFME, ISSN 2241-8865, ISBN 978-618-84028-4-3, pp. 9-16. | | | | | | |
|  | **Vasile O.**, Bugaru M., *Approaches to Velocity-Dependent Viscous Dampers*, Proceedings of the 10th International Conference from “Scientific Computing to Computational Engineering”, 10th IC-SCCE, Athens, 6-9 July, 2022, ©LFME, ISSN 2241-8865, ISBN 978-618-84028-4-3, pp. 23-30. | | | | | | |
|  | Bugaru M., **Vasile O.**, Vasile A., *Investigation of Nonlinear Dynamic Parametric Stability for Forced Bending Vibration of an Automotive Drivesaft using Asymptotic Method*, Proceedings of the 10th International Conference from “Scientific Computing to Computational Engineering”, 10th IC-SCCE, Athens, 6-9 July, 2022, ©LFME, ISSN 2241-8865, ISBN 978-618-84028-4-3, pp. 104-117. | | | | | | |
|  | Bugaru M., **Vasile O.**, Neagoe M., *Optimization of a Specific Edge Diffraction for Industrial Areas using the MGPM*, Proceedings of the 10th International Conference from “Scientific Computing to Computational Engineering”, 10th IC-SCCE, Athens, 6-9 July, 2022, ©LFME, ISSN 2241-8865, ISBN 978-618-84028-4-3, pp. 170-178. | | | | | | |
|  | Neagoe M., **Vasile O.**, Bugaru M., Analysis of Noise Reduction and the Influence of Wave’s Diffraction Angle Using Noise Barriers, Proceedings of the 9th International Conference from “Experiments/Process/System Modeling/Simulation/Optimization”, 9th IC-EPSMSO, Athens, 7-10 July, 2021, ©LFME, ISSN 2241-9209, ISBN 978-618-84028-2-9, pp. 57-65 | | | | | | |
|  | Bugaru M., Neagoe M., **Vasile O.**, *Recent Developments of Noise Attenuation using Acoustic Barriers for a Specific Edge Geometry*, Proceedings of the 9th International Conference from “Experiments/Process/System Modeling/Simulation/Optimization”, 9th IC-EPSMSO, Athens, 7-10 July, 2021, ©LFME, ISSN 2241-9209, ISBN 978-618-84028-2-9, pp. 271-279. | | | | | | |
|  | X. Chen, N. Costea & S. Zeng, A generalized penalty method for quasi-variational-hemivariational inequalities, *Discrete and Continuous Dynamical Systems - Series S*, 18 (6) 2025, 1574-1590. | | | | | | |
|  | J. Cen, N. Costea & J. Pan, Elliptic inclusion systems with nonlocal functions and multivalued convection terms, *Journal of Nonlinear and Convex Analysis*, 26 (1) 2025, 169-185. | | | | | | |
|  | Y. Bai, N. Costea & S. Zeng, Existence results for variational-hemivariationalinequality systems with nonlinear couplings, *Communications in Nonlinear Science and Numerical Simulation* 134 2024, 108026. | | | | | | |
|  | J. Cen, N. Costea, C. Min & J.C. Yao, Stability analysis for a recovered fracturing fluid model in the wellbore of shale gas reservoir, *Hecettepe Journal of Mathematics & Statistics* 52 (6) 2023, 1533-1549 | | | | | | |
|  | N. Costea & S. Zeng, Existence results for Dirichlet double phase differential inclusions, *Studia Universitatis Babes-Bolyai Mathematica* 68 (1) (2023), 51-61 | | | | | | |
|  | N. Costea, Coupled systems of nonlinear variational inequalities and applications, *Commun. Nonlinear Sci. Numer. Simul*. **118** (2023), 107046, IF=3.9, AIS=0.817. | | | | | | |
|  | N. Costea & S. Zeng, Existence results for Dirichlet double phase differential inclusions, *Stud. Univ. Babes-Bolyai Math*. **68** (1) (2023), 51-61. WOS:000957722600005, IF=0.4, AIS=0.141. | | | | | | |
|  | J. Cen, N. Costea, C. Min J.C. Yao, Stability analysis for a recovered fracturing fluid model in the wellbore of shale gas reservoir, *Hacet. J. Math. Stat.* **52** (6) 2023, 1533-1549, IF=0.8, AIS=0.231. | | | | | | |
|  | N. Costea & A. Pitea, Existence results for mixed hemivariational-like inequalities  involving set-valued maps, *Optimization* **70** (2) (2021), 269-305. WOS:000506799600001, IF=2,2, AIS=0,709. | | | | | | |
|  | Ghiban B., Antoniac A. M, Antoniac I., Bordeasu I., Bordeașu D., Rau V. Julietta, Micu L. M.- Biodegradability and Cavitation Erosion Behavior of Some Zinc Alloys from the System ZnCuMg, Metals, 2025 | | | | | | |
|  | Bordeasu I., Ghera C., Luca A. N., Ghiban B., Micu L. M. -Investigation of Cavitation Resistance of Biocompatible Zinc-Based Alloys for Biomedical Applications, Conference Paper, Machine and Industrial Design in Mechanical Engineering (KOD 2024), pp 272–281 | | | | | | |
|  | Iordache C.M., Luca A.N., Bordeasu I., Ciungu G., Ghiban B. - Cavitational Erosion Behavior of a Biodegradable Alloy from the Zn-Mg System for Biomedical Applications, Tribology in Industry, Vol. 46, No. 2 (2024) 315-323, DOI: 10.24874/ti.1604.11.23.01 | | | | | | |
|  | Luca A.N., Bordeasu I., Iordache C.M., Miculescu M., Micu L.M., Ghiban B. - Heat Treatment Influence on the Cavitational Erosion Zn-Mg Behavior Used for Biomedical Applications, - Tribology in Industry, Vol. 46, No. 2 (2024) 270-282, DOI: 10.24874/ti.1548.09.23.11 | | | | | | |
|  | Ciungu G., Micu L. M., Bordeasu I., Ghiban B., Ghera C.- CAVITATION BEHAVIOUR OF A BIODEGRADABLE ZnCu ALLOY, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, Vol. 86, Iss. 3, 2024, 247-260 | | | | | | |
|  | Bordeasu, I; Ghiban, B ; Micu, LM; Luca, AN; Demian, AM; Istrate, D, THE INFLUENCE OF HEAT AGING TREATMENTS ON THE CAVITATION EROSION BEHAVIOR OF A TYPE 6082 ALUMINUM ALLOY, Materials, Volume 16 Issue17, DOI10.3390/ma16175875, 2023 (corresponding author) | | | | | | |
|  | Ionescu LG ; Pantawane MV; Tanase C; Sichim RV; Dascalu CA; Ghiban B., EVALUATION OF RETAINED AUSTENITE IN CARBURIZED BEARING STEEL USING MAGNETO-INDUCTIVE METHOD, Crystals, Volume 13 Issue 8, DOI10.3390/cryst13081173, 2023 (corresponding author) | | | | | | |
|  | Istrate, D; Bordeasu, I; Ghiban, B; Istrate, B; Sbarcea, BG; Ghera, C; Luca, AN; Odagiu, PO; Florea, B ; Gubencu, D CORRELATION BETWEEN MECHANICAL PROPERTIES-STRUCTURAL CHARACTERISTICS AND CAVITATION RESISTANCE OF ROLLED ALUMINUM ALLOY TYPE 5083, Metals, Volume 13 Issue 6, DOI10.3390/met13061067, 2023 (corresponding author) | | | | | | |
|  | Ghiban B., Antoniac A. M, Antoniac I., Bordeasu I., Bordeașu D., Rau V. Julietta, Micu L. M.- Biodegradability and Cavitation Erosion Behavior of Some Zinc Alloys from the System ZnCuMg, Metals, 2025 | | | | | | |
|  | Bordeasu I., Ghera C., Luca A. N., Ghiban B., Micu L. M. -Investigation of Cavitation Resistance of Biocompatible Zinc-Based Alloys for Biomedical Applications, Conference Paper, Machine and Industrial Design in Mechanical Engineering (KOD 2024), pp 272–281 | | | | | | |
|  | Bordeasu, I; **Ghiban, B**; Nagy, V; Paraianu, V; Ghera, ; Istrate, D; Demian, AM; Odagiu, PO,*CAVITATIONAL EROSION RESISTANCE CONSIDERATIONS FOR ALLOY 6082 STATE T651*, University Politehnica of Bucharest Scientific Bulletin Series B- Chemistry and Materials Science, Volume 85, Issue 1, Page 213-224, 2023 | | | | | | |
|  | Odagiu, PO; Salcianu, CL; Ghera, C; Buzatu, AD; Micu, LM; Luca, AN; Bordeasu, I; **Ghiban, B.***HEAT TREATMENT PARAMETERS INFLUENCE ON THE CAVITATION RESISTANCE OF AN ALUMINUM ALLOY*, , University politehnica of bucharest Scientific Bulletin Series B- Chemistry and Materials Science, Volume 85, Issue 3, Page 239-252, Published 2023 | | | | | | |
|  | Ghera, C., Bordeasu, I., Luca, A.N., 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*,.Solid State Phenomena, 2023, 349, pp. 63–70 | | | | | | |
|  | Micu, L.M., Bordeasu, I., Dionisie, I., **Ghiban, B.,** Gubencu, D. *Influence of aging heat treatment at 1800C on cavitation erosion for aluminum alloy type 5083 in cold rolled state*, Journal of Physics: Conference Series, 2023, 2540(1), 012036 | | | | | | |
|  | **Ghiban, B.,** Demian, A.M., Ghera, C. , *Cavitation behavior study of the aging heat treated aluminum alloy 7075*, Luca, A.N., Bordeasu, I., Journal of Physics: Conference Series, 2023, 2540(1), 012037 | | | | | | |
|  | *Research on the Influence of the Heat Treatment Temperature on the Cavitation Behavior of the Aluminum Alloy 2017 A*, Salcianu, C.L., Bordeasu, I., **Ghiban, B**., Odagiu, O., Badarau, R., Solid State Phenomena, 2023, 349, pp. 55–62 | | | | | | |
|  | Istrate, D ; Sbarcea, BG ; Demian, AM ; Buzatu, AD ; Salcianu, L; Bordeasu, I ; Micu, LM; Ghera, C; Florea, B; **Ghiban, B.,***Correlation between Mechanical Properties-Structural Characteristics and Cavitation Resistance of Cast Aluminum Alloy Type 5083*, Crystals, vol. 12, issue 11, 1538, doi: 10.3390/cryst121111538, published 2022 (corresponding author) | | | | | | |
|  | Ghera, C; Odagiu, OP; Nagy, V; Micu, LM; Luca, AN ; Bordeasu, I; Demian, MA; Buzatu, AD; **Ghiban, B.,***INFLUENCE OF AGEING TIME ON CAVITATION RESISTANCE OF 6082 ALUMINUM ALLOY*, University Politehnica of Bucharest Scientific Bulletin Series B- Chemistry and Materials Science, Volume84, Issue4, Page225-237, Published 2022, Indexed2023-01-06 | | | | | | |
|  | Milea, GC; Necsulescu, DA ; **Ghiban, B** ; Stere, A; Robu, A; Bujor, C; Ene, R; Forna,*FAILURE ANALYSES OF A NON-CEMENTED HIP PROSTHESES FAILED DUE TO THE STEM FRACTURE*, University Politehnica of Bucharest Scientific Bulletin Series B- Chemistry and Materials Science Volume 84, Issue2, Page175-186, Published 2022, Indexed2022-06-15 | | | | | | |
|  | Bedo, T; Pop, MA; Geaman, V; Radomir, I; Semenescu, A; **Ghiban, B**; Florea, B, *Material Consuption Reduction and the Influence on the Mechanical Properties of the 3D Printed Parts for ABS Silver*, MATERIALE PLASTICE, 2021, VOL 58, NR.3, 99-108, FI 0.593 | | | | | | |
|  | , **Ghiban, B**; Pascu, NE; Antoniac, IV; Jiga, G; Milea, C; Petre, G; Gheorghe, C; Munteanu, C; Istrate, B.,*Surface Characterization of Fracture in Polylactic Acid vs. PLA plus Particle (Cu, Al, Graphene) Insertions* by 3D Fused Deposition Modeling Technology COATINGS, 2021, vol 11, nr. 6, DOI10.3390/coatings11060633, FI 2.881 | | | | | | |
|  | Gheorghe, C; Petre, G; Trante, O; Milea, CG; **Ghiban, B**,*CORROSION BEHAVIOUR OF ZAMAK COMPONENTS IN A HEARING AID*, UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, VOL 83, NR.4, 251-262, 2021, FI 0 | | | | | | |
|  | Andrei, M; **Ghiban, B**, *EVALUATION AND CONTROL OF MICROBIOLOGICALLY INFLUENCED CORROSION (MIC) OF A PIPELINE USING A BIOFILM SAMPLING DEVICE*, UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, 2020, VOL 82, NR. 3, 249-260 | | | | | | |
|  | Luca N.A., Bordeasu I., Ghiban B., Ciungu G., Iordache C.M.-"HEAT TREATMENT INFLUENCE ON THE CAVITATIONAL EROSION Zn-Mg BEHAVIOR USED FOR BIOMEDICAL APPLICATIONS",Tribology in Industry 2023, DOI:10.24874/ti.1548.09.23.11 | | | | | | |
|  | Iordache C.M, Luca N.A., Bordeasu I., Ciungu G.,Ghiban B.,-Cavitational Erosion Behaviour of Biodegradable Alloy from Zn-Mg System for Biomedical Applications",Tribology in Industry 2023, DOI:10.24874/ti.1604.11.23.11 | | | | | | |
|  | *Aspects éthiques de la littérature autobiographique – Philippe Vilain et Annie Ernaux*, *Annales Universitatis Apulensis. Series Philologica*, nr. 22 / 2021, revistă indexată ERIH PLUS**,** CEEOL**,** EBSCO şi inclusă în Categoria B - CNCS*,* p. 73-78 | | | | | | |
|  | Aspects éthiques de la littérature autobiographique – Philippe Vilain et Annie Ernaux, Annales Universitatis Apulensis. Series Philologica, nr. 22 / 2021, revistă indexată ERIH PLUS, CEEOL, EBSCO şi inclusă în Categoria B - CNCS, p. 73-78 | | | | | | |
|  | Aspects éthiques de la littérature autobiographique – Philippe Vilain et Annie Ernaux, Annales Universitatis Apulensis. Series Philologica, nr. 22 / 2021, revistă indexată ERIH PLUS, CEEOL, EBSCO şi inclusă în Categoria B - CNCS, p. 73-78 | | | | | | |
|  | Oroles FLORESCU, Mariana MEZEI, Camelia BRANEȚ, Adrian PRICOP**;*****The physical education lesson as seen by the students of Politehnica Bucharest,*** Discobolul – Physical Education, Sport and Kinetotherapy Journal, Volume 59, Issue 2, 167-178, https://doi.org/10.35189/dpeskj.2020.59.2.7, ISSN (online) 2286 – 3702; ISSN–L 1454 – 3907; | | | | | | |
|  | Adrian Daniel PRICOP, Raluca PELIN, Oroles FLORESCU, Mariana MEZEI; ***Diversification of sports activities in technical higher education by improving sports facilities.,*** Discobolul – Physical Education, Sport and Kinetotherapy Journal, Volume 59, Issue 3, 202-215, https://doi.org/10.35189/dpeskj.2020.59.3.1, ISSN (online) 2286 – 3702; ISSN–L 1454 – 3907 | | | | | | |
|  | Carmen GRIGOROIU, Adrian PRICOP; ***Efficiency of the progressive stretching method in developing female students’ flexibility in the cheerleading team.,*** Discobolul – Physical Education, Sport and Kinetotherapy Journal, Volume 59, Issue 1, 81-93, https://doi.0rg/10.35289/dpeskj.2020.59.1.8, ISSN (online) 2286 – 3702; ISSN–L 1454 – 3907; | | | | | | |
|  | Alina Zaharia, „*Alternative comportamentale în condiții normative și cerințe situaționale”,* Volumul Sesiunii de Comunicări Stiinţifice International Conference „Psychology and Society” Universitatea Titu Maiorescu, ISBN 978-606-8002-60, noiembrie 2020 –BDI, pg. 113-118 | | | | | | |
|  | Alina Zaharia, „*Impactul vieții profesionale asupra calității vieții persoanle”,* Volumul Sesiunii de Comunicări Stiinţifice International Conference „Psychology and Society” Universitatea Titu Maiorescu, ISBN 978-606-8002-60, noiembrie 2021 –BDI, pg. 57-62 | | | | | | |
|  | Dragos Mihai, Radu Mihalache, Gheorghe Megherelu, **Emil Nutu**, Ionut Florian Popa, Mihail Sima, Alexandra Adiaconitei, Elena Cristina Paul, Design and testing of a closing and sealing system for a Phobos sample return mission, Advances in Space Research, vol 69(2), 2022, 10.1016/j.asr.2021.10.041, WOS: 000736947600006. | | | | | | |
|  | **Emil Nutu**, Daniel Vlasceanu, Dan-Mihai Constantinescu, Lucian Gruionu, Stefan-Dan Pastrama, Finite element simulation of the catheter movement in transbronchial biopsy, Materials Today: Proceedings, 2022, doi: 10.1016/j.matpr.2022.04.045, WOS: 000830020400011. | | | | | | |
|  | Yash Gupta, Rohit Iyer, Vamsi Krishna Dommeti, **Emil Nutu**, Masud Rana, Ali Merdji, Jayanta Kumar Biswas, Sandipan Roy, Design of dental implant using design of experiment and topology optimization: A finite element analysis study, Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2021, doi: 10.1177/0954411920967146, WOS: 000612424400004. | | | | | | |
|  | Vinamra Jain, Vamsi Krishna Dommeti, Emil Nutu, Ali Merdji, Jayanta Kumar Biswas, Sandipan Roy, Mechanical response of taper dental implants using finite element analysis, 3RD INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, 2020, doi: 10.1088/1757-899x/912/2/022052, WOS: 000626936000052. | | | | | | |
|  | DR. Sahu, A. Pitea, M. Verma: A new iteration technique for nonlinear operators as concerns convex programming and feasibility, problems, Numerical Algor., 83(2) 2020, 421-449, DOI:10.1007/s11075-019-00688-9, WOS: 000519981000001. | | | | | | |
|  | N.V. Hung, V.M. Tam, A. Pitea: Global error bounds for mixed quasi-hemivariational inequality problems on Hadamard manifolds, Optimization, 69(2020), No. 9,‏ 2033-2052, DOI: [10.1080/02331934.2020.1718126](https://doi.org/10.1080/02331934.2020.1718126), WOS:000508744200001. | | | | | | |
|  | S. Singh, A. Pitea, X. Qin: An iterative method and weak sharp solutions for multitime-type variational inequalities, Applicable Anal., 100(2021), 2070-2187, DOI:10.1080/00036811.2019.1679787, WOS:000550843200001. | | | | | | |
|  | N. Costea, A. Pitea: Existence results for mixed hemivariational-like inequalities involving set-valued maps, Optimization, 70(2021), No. 2, 269-305, DOI:10.1080/02331934.2019.1711083, WOS:000506799600001. | | | | | | |
|  | MU. Ali, A. Pitea: Existence theorem for integral inclusions by a fixed point theorem for multivalued implicit-type contractive mappings, Nonlinear Anal. Modelling Control, 26(2021), No. 2, 334-348, DOI:10.15388/namc.2021.26.22357, WOS:000625180600009 | | | | | | |
|  | Bogdan Dumitru Mihaela Ghelmez, , Cristian Toma, *Physical Methods for Analysis and Treatment of Risks in a System with Planned Evolution,* Scientific Bulletin Politehnica University, Bucharest, Series A-Applied Mathematics and Physics. Vol. 83, Issue 4, pp.231-242, WOS:000731398600021, 2021, Factor Impact 1.160 pe 2021, AIS 0.167 pe 2021, eigenfactor 0.00088 pe 2021, ISSN 1223-7027, 2021 | | | | | | |
|  | CARUTASU George, CARUTASU Nicoleta Luminita, COTET Gabriela Beatrice, (2021) Cloud-Based Solutions Adopted in the Romanian Education System, 2021, INTED2021 Proceedings, pp 507-514, Valencia : IATED Academy, 2021,ISSN: 2340-1079, DBI: MS Academic Research | | | | | | |
|  | CARUTASU George, COTET Gabriela Beatrice, CARUTASU Nicoleta Luminita, (2021) PANDEMIC IMPACT OVER DIGITAL SKILLS TRAINING NEEDS, 2021, INTED2021 Proceedings, pp 515-524, ISSN: 2340-1079, DBI: MS Academic Research | | | | | | |
|  | **COTET, Gabriela Beatrice**;  Carutasu, Nicoleta Luminita;  Chiscop, Florina, (2020), *Industry 4.0 Diagnosis from an iMillennial Educational Perspective,* [Education Sciences](https://publons.com/journal/25718/) [on January 16, 2020, MDPI, ST ALBAN-ANLAGE 66, CH-4052 BASEL, SWITZERLAND](https://www.mdpi.com/2227-7102/10/1/21) | | | | | | |
|  | Corina BOTEZ (CONSTANTIN) & **Gabriela Beatrice COTEȚ (NICA), (2020)** *The corporate management model from the perspective of organizational culture,* Proceedings in Manufacturing Systems, Volume 15, Issue 2, 2020, 71-80 ISSN 2067-9238 | | | | | | |
|  | **Paulina SPÂNU** , Mihaela-Elena ULMEANU, Cristian-Vasile DOICIN, *Academic Third Mission through Community Engagement: An Empirical Study in European Universities*, Journals Education Sciences, Volume 14, 2024, WOS:001170336300001 | | | | | | |
|  | **Paulina SPANU**, Cristian-Vasile DOICIN, Mihaela-Elena ULMEANU, Florin BACIU, A*nalyzing the Tensile Strength of Carbon Fiber-Reinforced Epoxy Composites Using LabVIEW Virtual Instrument,* Mater. Plast., 61 (1), 2024 | | | | | | |
|  | Constantin RADU, **Paulina SPANU**, Ana-Maria BOGATU, *Finite element modeling of ultrasonic energy concentrators used in mechanical processing,* MTeM 2023 International Conference. ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING Journa 2023 | | | | | | |
|  | Nicolae IONESCU, Mihaela Elena ULMEANU, Cristian Vasile DOICIN, Catalin IONESCU, **Paulina** **SPÂNU**, *Prescribed precision for medical products obtained with additive manufacturing technologies*, ICAMaT 2022, 12th International Conference on Advanced Manufacturing Technologies, DOI 10.1088/1757-899X/1268/1/012004" 2022 doi:10.1088/1757-899X/1268/1/012004 | | | | | | |
|  | **Paulina SPANU**, Bogdan Felician ABAZA, *Tensile Strength Prediction of Fiberglass Polymer Composites Using Artificial Neural Network Model* Mater. Plast., 59 (2), 2022, 111-118 WOS:000865452800005 | | | | | | |
|  | Bogdan Felician ABAZA, **Paulina SPANU**, Bogdan Alexandru JUGRAVU, Dragos Alexandru APOSTOL, *Study on Compressive Properties of Recycling PETs and CANs for Designing a Smart Waste Management Compactor*, Mater. Plast., 58 (3), 2021, 64-75, 2021, WOS:000705010100003 | | | | | | |
|  | **Paulina SPANU**, Jose Alberto LENCASTRE, Marco BENTO, Gulden ILIN, Panos MILIOS, *Game-Based Learning and Gamification – Case Study ``Covering all the Information the Partnership Gained from the Project``* 37th IBIMA Conference 1-2 may 2021, Cordoba, Spain 2021 | | | | | | |
|  | Mihaela ULMEANU , Cristian DOICIN, **Paulina SPANU** *Comparative Evaluation of Sustainable Framework in STEM Intensive Programs for Secondary and Tertiary Education,* Sustainability 2021, vol 13 2021, WOS:000611743500001 | | | | | | |
|  | **Paulina SPANU**, Mihaela ULMEANU and Cristian DOICIN, *Expectations of Students to Improve their Academic Performance – Case Study* 36th IBIMA Conference: 4-5 November 2020, Granada, Spain 2020 | | | | | | |
|  | Mihaela-Elena ULMEANU, Cristian-Vasile DOICIN, **Paulina SPÂNU**, Vlad GHEORGHIȚĂ and Vlad ENACHE *Project Planning For The Development Of An E-Learning Interactive Educational Platform In Industrial Engineering-Based Applications* 36th IBIMA Conference: 4-5 November 2020, Granada, Spain 2020 | | | | | | |
|  | Dan-Alexandru BEJENARU, Mihaela-Elena ULMEANU, Cristian-Vasile DOICIN, **Paulina SPÂNU** and Nicolae TUNSOIU, *Pilot Course For Sustainable Development Of E-Learning Tools,* 36th IBIMA Conference: 4-5 November 2020, Granada, Spain, 2020 | | | | | | |
|  | Simona COSTACHE, Mihaela-Elena ULMEANU, Cristian-Vasile DOICIN and **Paulina SPÂNU**, *Project Management of a Research Internship in Medical Applications*, 36th IBIMA Conference: 4-5 November 2020, Granada, Spain 2020 | | | | | | |
|  | Bogdan Felician ABAZA, Bogdan Alexandru JUGRAVU and Paulina SPANU, *Smart Waste Management Application for Pet Bottle Compactor,* 36th IBIMA Conference: 4-5 November 2020, Granada, Spain 2020 | | | | | | |
|  | Alexandra - Cristina SPÂNU, Maria-Iuliana DASCALU, **Paulina SPÂNU** and Iulia Cristina STANICA, *A Sentiment Analysis Case Study: Socializing about Social Distancing*, 36th IBIMA Conference: 4-5 November 2020, Granada, Spain 2020 | | | | | | |
|  | **Paulina SPANU,** Teodora Daniela CHICIOREANU, *Students' Perspective. The Main Factors that Contribute to Students' Dropouts,* The 16th International Scientific Conference eLearning and Software for Education Bucharest, April 23-24, 2020 10.12753/2066-026X-20-155 Volume 2, 2020 DOI: 10.12753/2066-026X-20-155 | | | | | | |
|  | Constantin RADU, **Paulina SPANU**, Ana-Maria BOGATU, *Finite element modeling of ultrasonic energy concentrators used in mechanical processing,* MTeM 2023 International Conference. ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING Journal, 2023 | | | | | | |
|  | **Paulina SPANU**, Jose Alberto LENCASTRE, Marco BENTO, Gulden ILIN, Panos MILIOS, *Game-Based Learning and Gamification – Case Study ``Covering all the Information the Partnership Gained from the Project``* 37th IBIMA Conference 1-2 may 2021, Cordoba, Spain 2021 DOI 10.5281/zenodo.10255463. | | | | | | |
|  | **Paulina SPANU**, Mihaela ULMEANU and Cristian DOICIN, *Expectations of Students to Improve their Academic Performance – Case Study* 36th IBIMA Conference: 4-5 November 2020, Granada, Spain 2020 | | | | | | |
|  | Mihaela-Elena ULMEANU, Cristian-Vasile DOICIN, **Paulina SPÂNU**, Vlad GHEORGHIȚĂ and Vlad ENACHE *Project Planning For The Development Of An E-Learning Interactive Educational Platform In Industrial Engineering-Based Applications* 36th IBIMA Conference: 4-5 November 2020, Granada, Spain 2020 | | | | | | |
|  | Dan-Alexandru BEJENARU, Mihaela-Elena ULMEANU, Cristian-Vasile DOICIN, **Paulina SPÂNU** and Nicolae TUNSOIU, *Pilot Course For Sustainable Development Of E-Learning Tools,* 36th IBIMA Conference: 4-5 November 2020, Granada, Spain, 2020 | | | | | | |
|  | Simona COSTACHE, Mihaela-Elena ULMEANU, Cristian-Vasile DOICIN and **Paulina SPÂNU**, *Project Management of a Research Internship in Medical Applications*, 36th IBIMA Conference: 4-5 November 2020, Granada, Spain 2020 | | | | | | |
|  | Bogdan Felician ABAZA, Bogdan Alexandru JUGRAVU and Paulina SPANU, *Smart Waste Management Application for Pet Bottle Compactor,* 36th IBIMA Conference: 4-5 November 2020, Granada, Spain 2020 | | | | | | |
|  | Alexandra - Cristina SPÂNU, Maria-Iuliana DASCALU, **Paulina SPÂNU** and Iulia Cristina STANICA, *A Sentiment Analysis Case Study: Socializing about Social Distancing*, 36th IBIMA Conference: 4-5 November 2020, Granada, Spain 2020 | | | | | | |
|  | **Paulina SPANU,** Teodora Daniela CHICIOREANU, *Students' Perspective. The Main Factors that Contribute to Students' Dropouts,* The 16th International Scientific Conference eLearning and Software for Education Bucharest, April 23-24, 2020 10.12753/2066-026X-20-155 Volume 2, 2020 DOI: 10.12753/2066-026X-20-155 | | | | | | |
|  | *Dogaru, Mariana.(2020).* Teachers' Perception About The Characteristics Of Successful School Principal Within Romanian Schools, [**The International Scientific Conference eLearning and Software for Education**](https://search.proquest.com/pubidlinkhandler/sng/pubtitle/The+International+Scientific+Conference+eLearning+and+Software+for+Education/$N/1876338/OpenView/2454731673/$B/17573B84663C49C4PQ/1;jsessionid=C79EBBC896206268E90A31CCF5C5B8EE.i-047a95c2f4b76f13b)**; Bucharest**,  Vol. 2, (2020). DOI:10.12753/2066-026X-20-159 | | | | | | |
|  | **C. Botez (Constantin)**, G.B. Coteț (Nica), *The corporate management model*  *from the perspective of organizational culture*, Proceedings of Manufacturing  Systems, vol. 15, iss. 2, 2020, pp. 71-80 (B1) | | | | | | |
|  | D. Arotăriței, **C. Botez (Constantin)**, G. Constantin, *Variable importance*  *analysis for a cutting process model*, Proceedings of Manufacturing Systems,  vol. 16, iss. 1, 2021, pp. 37-42 (B1) | | | | | | |
|  | I. Pătraşcu, A. Hadăr, Ş.D. Pastramă - Structural Analysis of a Freight Wagon with Composite Walls, *Materiale Plastice*, ISSN: 0025-5289, Vol. 57, nr. 2, pp. 140-151, 2020. | | | | | | |
|  | D. Voicu, A. Hadăr, D. Vlăsceanu, Ş. D. Pastramă - SHM monitoring methods and sensors with applications to composite helicopter blades: a review, *Acta Universitatis Cibiniensis – Technical Series*, Vol. 72, DOI: 10.2478/aucts-2020-0001 | | | | | | |
|  | D.M. Costescu, A. Hadăr, Ş.D. Pastramă – A new solution for impact energy dissipation during collision of railway vehicles, *Materials Today: Proceedings*, vol. 32/2 pp. 72 – 77, 2020. | | | | | | |
|  | Baciu, A. Rusu-Casandra, Ş.D. Pastramă – Low strain rate testing of tensile properties of steel, *Materials Today: Proceedings*, vol. 32/2 pp. 128 – 132, 2020. | | | | | | |
|  | E. Nuţu, D. Vlăsceanu, D.M. Constantinescu, L. Gruionu, Ş. D. Pastramă – Finite element simulation of the catether movement intransbronchial biopsy, *Materials Today: Proceedings*, vol. 62/5 pp. 2587 – 2593, 2022. | | | | | | |
|  | A. Rusu-Casandra, F. Baciu, Ş. D. Pastramă, N. Iliescu – Elastic-plastic stress analysis in the pole fixation of an electric generator, *Materials Today: Proceedings*, vol. 62/5 pp. 2404 – 2408, 2022. | | | | | | |
|  | A. Hadăr, A.D. Voicu, F. Baciu, D. Vlasceanu, D.I. Tudose, Ş.D. Pastramă - A Novel Composite Helicopter Tail Rotor Blade with Enhanced Mechanical Properties, Aerospace, Vol. 10, Paper 647, 2023 | | | | | | |
|  | E. Nuţu, Ş.D. Pastramă, L. G. Gruionu, D. M. Constantinescu – Explicit dynamics simulation of the catheter movement during bronchoscopic sampling of pulmonary nodules, *Materials Today: Proceedings*, vol. 93 pp. 630-635, 2023. | | | | | | |
|  | I. Adetu, A. Hadăr, V. Năstăsescu, A. E. Adetu, A. D. Voicu, Ş.D. Pastramă – Ballistic protection plates for military helicopters structures: experimental and numerical research, *Materials Today: Proceedings*, vol. 93, pp. 618-624, 2023. | | | | | | |
|  | L. G. Gruionu, R. S. Stan, C. Militaru, A. L. Udriștoiu, A. V. Iacob, M. C. Constantinescu, C. Militaru, S. Militaru, Ş.D. Pastramă, G. Gruionu – A novel smart assisting robotic catheter for endovascular interventions, Proceedings of the 38th Danubia Adria Symposium on Advances in Experimental Mechanics, ISBN 978-6188627802, Poros Island, Greece, 20-23 September, 2022. | | | | | | |
|  | Vlad Enache, Cristian-Vasile Doicin, Mihaela-Elena Ulmeanu, CAD Optimization of an Ankle Foot Orthosis Using Lattice Structures , POLCOM 2021- Conference on Design and Technologies for Polymeric Composites Products | | | | | | |
|  | Ileana Dugășescu, Vlad-Cristian Enache, MODELLING A BIPED MONOMOBILE MECHANICAL SYSTEM ADDITIVE MANUFACTURED, IMANEE 2022 | | | | | | |
|  | Ileana Dugaesescu, Gabriela-Marina Parvu, Vlad-Cristian Enache,Development of an additive fabricated biped mechanical system, ICAMaT 2022 | | | | | | |
|  | Andrei Valentin BAICU, Costel Emil COTEȚ, Lidia PARPALĂ (2021), ANALYSIS OF AN ENTERPRISE BASED ON A NEW DIAGNOSIS MODEL, Proceedings in Manufacturing Systems, Volume 16, Issue 4, 2021, 151-156, ISSN 2067-9238 | | | | | | |
|  | Albert SUVAC, Lidia Florentina PARPALA, Radu Constantin PARPALA (2020), GREEN, GREENER, GREENY. AN EVOLUTION OF GREENY TO A SAFER, MORE STABLE AND MORE CONFORTABLE ELECTRIC TRICYCLE, Proceedings in Manufacturing Systems, Volume 15, Issue 2, 2020, 45-52, ISSN 2067-9238 | | | | | | |
|  | Radu Constantin Parpală, Mario Andrei Ivan, Lidia Florentina Parpală , Costel Emil Cotet, Cicerone Laurentiu Popa (2024), Camera Calibration in High-Speed Robotic Assembly Operations, Appl., Sci. 2024, 14, 8687. https://doi.org/10.3390/app14198687 | | | | | | |
|  | Andrei Valentin BAICU, Costel Emil COTEȚ, Lidia PARPALĂ (2021), Analysis of an enterprise based on a new diagnosis model, Proceedings in Manufacturing Systems, Volume 16, Issue 4, 2021, 151-156, Bucuresti, Roamnia | | | | | | |
|  | Radu Constantin Parpală, Lidia Florentina PARPALĂ, Parametrizarea, Optimizarea și Managementul Bazelor de Date – Indruma de Laborator, Editura BREN, ISBN 978-606-610-272-8, 2022, București | | | | | | |
|  | Tieber A., Manolache D. S., Gheorghe M.,*Analysis and development of a key performance indicators model for the paper industry,* 6 pp,11th International Conference on Advanced Manufacturing Technologies, University POLITEHNICA of Bucharest, ICAMaT Conference, 2020, accepted for publication [ICAMaT] | | | | | | |
|  | Tieber A., Manolache D. S., Gheorghe M., Development of key performance indicators modules for small and medium-sized enterprises in production industry, 8 pp, IOP Conference Series: Materials Science and Engineering, Volume 682, Number 1, 012020, 2020, DOI https://doi.org/10.1088/1757-899X/682/1/012020, 10th International Conference on Advanced Manufacturing Technologies 10–11 October 2019, Bucharest, Romania | | | | | | |
|  | M Gheorghe, F P G Stochioiu, D Manolache, M R Dijmărescu, D Iliescu, Analysis and development on general structure and characteristics of laser interferometry systems, IOP Conference Series: Materials Science and Engineering, Volume 1268, 2022 - IOPscience, 12th International Conference on Advanced Manufacturing Technologies (ICAMaT 2022) 20/10/2022 - 21/10/2022 Bucharest, Romania | | | | | | |
|  | Scurtu D., **Puiu (Mechno) R.A.**, Petrea G., Ivan A., *The Impact of Cross-Platform Applications on the Digitization of Educational Institutions*, Scientific Buletin of University POLITEHNICA of Bucharest, Series C – Electrical Engineering and Computer Science, Number 3, Vol.84, Iss.3, ISBN: 2286-9540, Bucharest 2022, **WOS:000865792900007**. | | | | | | |
|  | Ulmeanu M.E., Doicin C.V., Semenescu A., Costoiu M.C., **Motorga R.A.**, *Design for Manufacturing of a Hip Endo-prosthesis Stem, Using Additive Technologies*, Proceedings of the 30th International Business Information Management Association Conference, Vision 2020: Sustainable Economic Development, Innovation Management, and Global Growth, Vols. I-IX , ISBN: 978-0-9860419-9-0, pp. 2597-2610, Madrid, Spain, 2017, **WOS:000443640502001;** | | | | | | |
|  | Manea N., Dumitrescu C. I., Niculescu N., Dobrescu R. M, **Puiu R. A.**, Sîrbu S.A., *An Analysis of the Impact of the Covid-19 Pandemic on Air Transport Services in Romania*, Proceedings of the 38th International Business Information Management Association Conference, ISBN: 978-0-9998551-7-1, 23-24 Noiembrie 2021, Sevillia, Spania. | | | | | | |
|  | Dumitrescu C. I., Manea N., Marinescu R. M, Niculescu N., Dobrescu R. M., **Puiu R. A.**, *COVID-19 Pandemic’s Impact on Company Activities in Romania*, Proceedings of the 38th International Business Information Management Association Conference, ISBN: 978-0-9998551-7-1, 23-24 Noiembrie 2021, Sevillia, Spania. | | | | | | |
|  | **Mechno R.A.**, Doicin C.V., Petrea G., Scurtu D., Buzatu A.I., *Comparative Analysis of International Ranking Systems for Universities*, Proceedings of the 36th International Business Information Management Association Conference, ISBN: 978-0-9998551-5-7, 4-5 Noiembrie 2020, Granada, Spania. | | | | | | |
|  | **Puiu (Mechno) R.A.**, Petrea G., Scurtu D., Cristea M. N., Dobrinoiu R. A., *The Impact of International Rankings on Students' Decision to Choose a University*, Proceedings of the 36th International Business Information Management Association Conference, [Journal of e-Learning and Higher Education](https://ibimapublishing.com/journals/journal-of-e-learning-and-higher-education/), ISBN: 978-0-9998551-5-7, 4-5 Noiembrie 2020, Granada, Spania. | | | | | | |
|  | Spânu P., Ulmeanu M.E., Doicin C.V., **Mechno R.A.**, *Expectations of Students to Improve their Academic Performance: Case Study*, Paulina SPANU, Mihaela ULMEANU, Cristian DOICIN and Roxana MECHNO, Proceedings of the 36th International Business Information Management Association Conference, [Journal of e-Learning and Higher Education](https://ibimapublishing.com/journals/journal-of-e-learning-and-higher-education/), ISBN: 978-0-9998551-5-7, 4-5 Noiembrie 2020, Granada, Spania. | | | | | | |
|  | **Cicerone Laurentiu Popa,** Ioana Iorga, Costel Emil Cotet, Ana Maria Ifrim, Constantin-Adrian Popescu, and Tiberiu Gabriel Dobrescu. 2024. "Optimization of Wiring Harness Logistics Flow in the Automotive Industry" Applied Sciences 14, no. 22: 10636. https://doi.org/10.3390/app142210636 | | | | | | |
|  | **Cicerone Laurentiu Popa,** Floarea-Loredana Seileanu, Costel Emil Cotet, Florina Chiscop, and Constantin-Adrian Popescu. 2024. "Optimization Processes in Automotive Logistic Flow" Applied Sciences 14, no. 21: 10064. <https://doi.org/10.3390/app142110064> | | | | | | |
|  | **Popa, C. L.,** Dobrescu, T. G., Silvestru, C. I., Firulescu, A. C., Popescu, C. A., & Cotet, C. E. (2021). Pollution and Weather Reports: Using Machine Learning for Combating Pollution in Big Cities. Sensors (Basel, Switzerland), 21(21), 7329. https://doi.org/10.3390/s21217329, Factor de impact:3.275, WOS:000718516600001 | | | | | | |
|  | Cotet C.E., Deac G.C., Deac N.C., **Popa C.L.,** - “An Innovative Industry 4.0 Cloud Data Transfer Method for an Automated Waste Collection System”, revista Sustainability 2020, 12(5), 1839; 2020, ISSN: 2071-1050, doi:10.3390/su12051839, Accession Number: WOS:000522470900140, FI:2.576 | | | | | | |
|  | Constantin-Rareș DIACONU, Constantin-Adrian POPESCU, **Cicerone Laurențiu POPA**, Emilia-Maria POPESCU, Costel Emil COTEȚ - Using software and mathematical methods to optimise a bottling flow, Journal PROCEEDINGSIN MANUFACTURING SYSTEMS Volume 18, Issue 4, 2023 pp.137-142, ISSN 2067-9238 | | | | | | |
|  | Crina Deac, Gicu Călin Deac, Radu Constantin Parpala, **Cicerone Laurentiu Popa** and Constantin Adrian Popescu - Vibration Anomaly Detection Using Multivariate Time Series, IJMO 2022 Vol.12(2): 61-65 ISSN: 2010-3697, DOI: 10.7763/IJMO.2022.V12.801, (ProQuest, Crossref, Electronic Journals Library, Google Scholar, EI (INSPEC, IET), EBSCO) | | | | | | |
|  | Gicu-Călin Deac, Crina-Narcisa Georgescu, **Cicerone Laurentiu Popa**, Tiberiu Dobrescu, and Costel Emil Cotet - Virtual Reality Laboratory for Distance Learning, IJMO 2022 Vol.12(2): 49-53 ISSN: 2010-3697, DOI: 10.7763/IJMO.2022.V12.799, (ProQuest, Crossref, Electronic Journals Library, Google Scholar, EI (INSPEC, IET), EBSCO) | | | | | | |
|  | Crina Deac, Gicu Călin Deac, Radu Constantin Parpală, **Cicerone Laurentiu Popa**, and Costel Emil Cotet - Vibration Anomaly Detection using Deep Neural Network and Convolutional Neural Network - IJMO 2021 Vol.11(1): 19-28 ISSN: 2010-3697, DOI: 10.7763/IJMO.2021.V11.772, (ProQuest, Crossref, Electronic Journals Library, Google Scholar, EI (INSPEC, IET), EBSCO) | | | | | | |
|  | Ioana STEFAN (IORGA), Constantin-Adrian POPESCU, **Cicerone Laurențiu POPA**, Tiberiu Gabriel DOBRESCU, Costel Emil COTEȚ - The usage of RFID technology in wiring component storage systems, Journal PROCEEDINGS IN MANUFACTURING SYSTEMS, pages 109 - 116, Volume 16, Issue 3, 2021, ISSN 2343–7472, ISSN-L 2067-9238 (Copernicus) | | | | | | |
|  | POPESCU Emilia-Maria, POPESCU Constantin Adrian, **POPA Cicerone Laurentiu**, DOBRESCU Tiberiu Gabriel, COTET Costel Emil "Identifying speeds and accelerations for the systems within a didactic stand operated by means of stepper motors" in "MATEC Web of Conferences" (2021-01-01): 02006 DBI: MS Academic Research | | | | | | |
|  | Stefan (Iorga) Ioana, POPESCU Constantin Adrian, **POPA Cicerone Laurentiu**, DOBRESCU Tiberiu Gabriel, COTET Costel Emil "Research regarding assembly flow optimization of wiring harness in automotive industry" in "MATEC Web of Conferences" (2021-01-01): 02003 DBI: MS Academic Research | | | | | | |
|  | Crina Narcisa GEORGESCU, Gicu-Călin DEAC, **Cicerone Laurențiu POPA**, Costel Emil COTEȚ, Computerized maintenance management system (CMMS) IOTIA – maintenance platform implementation for Industry 4.0, Journal PROCEEDINGS IN MANUFACTURING SYSTEMS, pages pp. 103-111, Volume 15, Issue 3, 2020, ISSN 2343–7472, ISSN-L 2067-9238 | | | | | | |
|  | Gicu-Călin DEAC, Crina Narcisa GEORGESCU, **Cicerone Laurențiu POPA**, Costel Emil COTEȚ, Implementation of a virtual reality collaborative platform for Industry 4.0 offices, Journal PROCEEDINGS IN MANUFACTURING SYSTEMS, pages 95-102, Volume 15, Issue 3, 2020, ISSN 2343–7472, ISSN-L 2067-9238 (Copernicus) | | | | | | |
|  | Gicu-Călin Deac, Crina-Narcisa Georgescu, **Cicerone Laurentiu Popa**, and Costel Emil Cotet, Virtual Reality Digital Twin for a Smart Factory, IJMO 2020 Vol.10(6): 190-195 ISSN: 2010-3697, DOI: 10.7763/IJMO.2020.V10.769, (ProQuest, Crossref, Electronic Journals Library, Google Scholar, EI (INSPEC, IET), EBSCO) | | | | | | |
|  | Ghiban B., Antoniac A. M, Antoniac I., Bordeasu I., Bordeașu D., Rau V. Julietta, Micu L. M.- Biodegradability and Cavitation Erosion Behavior of Some Zinc Alloys from the System ZnCuMg, Metals, 2025 | | | | | | |
|  | Bordeasu I., Ghera C., Luca A. N., Ghiban B., Micu L. M. -Investigation of Cavitation Resistance of Biocompatible Zinc-Based Alloys for Biomedical Applications, Conference Paper, Machine and Industrial Design in Mechanical Engineering (KOD 2024), pp 272–281 | | | | | | |
|  | Iordache C.M., Luca A.N., Bordeasu I., Ciungu G., Ghiban B. - Cavitational Erosion Behavior of a Biodegradable Alloy from the Zn-Mg System for Biomedical Applications, Tribology in Industry, Vol. 46, No. 2 (2024) 315-323, DOI: 10.24874/ti.1604.11.23.01 | | | | | | |
|  | Luca A.N., Bordeasu I., Iordache C.M., Miculescu M., Micu L.M., Ghiban B. - Heat Treatment Influence on the Cavitational Erosion Zn-Mg Behavior Used for Biomedical Applications, - Tribology in Industry, Vol. 46, No. 2 (2024) 270-282, DOI: 10.24874/ti.1548.09.23.11 | | | | | | |
|  | Ciungu G., Micu L. M., Bordeasu I., Ghiban B., Ghera C.- CAVITATION BEHAVIOUR OF A BIODEGRADABLE ZnCu ALLOY, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, Vol. 86, Iss. 3, 2024, 247-260 | | | | | | |
|  | Bordeasu, I; Ghiban, B ; Micu, LM; Luca, AN; Demian, AM; Istrate, D, THE INFLUENCE OF HEAT AGING TREATMENTS ON THE CAVITATION EROSION BEHAVIOR OF A TYPE 6082 ALUMINUM ALLOY, Materials, Volume 16 Issue17, DOI10.3390/ma16175875, 2023 (corresponding author) | | | | | | |
|  | Ionescu LG ; Pantawane MV; Tanase C; Sichim RV; Dascalu CA; Ghiban B., EVALUATION OF RETAINED AUSTENITE IN CARBURIZED BEARING STEEL USING MAGNETO-INDUCTIVE METHOD, Crystals, Volume 13 Issue 8, DOI10.3390/cryst13081173, 2023 (corresponding author) | | | | | | |
|  | Istrate, D; Bordeasu, I; Ghiban, B; Istrate, B; Sbarcea, BG; Ghera, C; Luca, AN; Odagiu, PO; Florea, B ; Gubencu, D CORRELATION BETWEEN MECHANICAL PROPERTIES-STRUCTURAL CHARACTERISTICS AND CAVITATION RESISTANCE OF ROLLED ALUMINUM ALLOY TYPE 5083, Metals, Volume 13 Issue 6, DOI10.3390/met13061067, 2023 (corresponding author) | | | | | | |
|  | Bordeasu, I; Ghiban, B; Nagy, V; Paraianu, V; Ghera, ; Istrate, D; Demian, AM; Odagiu, PO,CAVITATIONAL EROSION RESISTANCE CONSIDERATIONS FOR ALLOY 6082 STATE T651, University Politehnica of Bucharest Scientific Bulletin Series B- Chemistry and Materials Science, Volume 85, Issue 1, Page 213-224, 2023 | | | | | | |
|  | Odagiu, PO; Salcianu, CL; Ghera, C; Buzatu, AD; Micu, LM; Luca, AN; Bordeasu, I; Ghiban, B.HEAT TREATMENT PARAMETERS INFLUENCE ON THE CAVITATION RESISTANCE OF AN ALUMINUM ALLOY, , University politehnica of bucharest Scientific Bulletin Series B- Chemistry and Materials Science, Volume 85, Issue 3, Page 239-252, Published 2023 | | | | | | |
|  | Ghera, C., Bordeasu, I., Luca, A.N., 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,.Solid State Phenomena, 2023, 349, pp. 63–70 | | | | | | |
|  | Micu, L.M., Bordeasu, I., Dionisie, I., Ghiban, B., Gubencu, D. INFLUENCE OF AGING HEAT TREATMENT AT 1800C ON CAVITATION EROSION FOR ALUMINUM ALLOY TYPE 5083 IN COLD ROLLED STATE, Journal of Physics: Conference Series, 2023, 2540(1), 012036 | | | | | | |
|  | Ghiban, B., Demian, A.M., Ghera, C. , CAVITATION BEHAVIOR STUDY OF THE AGING HEAT TREATED ALUMINUM ALLOY 7075, Luca, A.N., Bordeasu, I., Journal of Physics: Conference Series, 2023, 2540(1), 012037 | | | | | | |
|  | RESEARCH ON THE INFLUENCE OF THE HEAT TREATMENT TEMPERATURE ON THE CAVITATION BEHAVIOR OF THE ALUMINUM ALLOY 2017 A, Salcianu, C.L., Bordeasu, I., Ghiban, B., Odagiu, O., Badarau, R., Solid State Phenomena, 2023, 349, pp. 55–62 | | | | | | |
|  | Istrate, D ; Sbarcea, BG ; Demian, AM ; Buzatu, AD ; Salcianu, L; Bordeasu, I ; Micu, LM; Ghera, C; Florea, B; Ghiban, B.,CORRELATION BETWEEN MECHANICAL PROPERTIES-STRUCTURAL CHARACTERISTICS AND CAVITATION RESISTANCE OF CAST ALUMINUM ALLOY TYPE 5083, Crystals, vol. 12, issue 11, 1538, doi: 10.3390/cryst121111538, published 2022 (corresponding author) | | | | | | |
|  | Ghera, C; Odagiu, OP; Nagy, V; Micu, LM; Luca, AN ; Bordeasu, I; Demian, MA; Buzatu, AD; Ghiban, B.,INFLUENCE OF AGEING TIME ON CAVITATION RESISTANCE OF 6082 ALUMINUM ALLOY, University Politehnica of Bucharest Scientific Bulletin Series B- Chemistry and Materials Science, Volume84, Issue4, Page225-237, Published 2022, Indexed2023-01-06 | | | | | | |
|  | Ris17. Milea, GC; Necsulescu, DA ; Ghiban, B ; Stere, A; Robu, A; Bujor, C; Ene, R; Forna,FAILURE ANALYSES OF A NON-CEMENTED HIP PROSTHESES FAILED DUE TO THE STEM FRACTURE, University Politehnica of Bucharest Scientific Bulletin Series B- Chemistry and Materials Science Volume 84, Issue2, Page175-186, Published 2022, Indexed2022-06-15 | | | | | | |
|  | Ris18. Bedo, T; Pop, MA; Geaman, V; Radomir, I; Semenescu, A; Ghiban, B; Florea, B, MATERIAL CONSUPTION REDUCTION AND THE INFLUENCE ON THE MECHANICAL PROPERTIES OF THE 3D PRINTED PARTS FOR ABS SILVER, MATERIALE PLASTICE, 2021, VOL 58, NR.3, 99-108, FI 0.593 | | | | | | |
|  | Ris19. , Ghiban, B; Pascu, NE; Antoniac, IV; Jiga, G; Milea, C; Petre, G; Gheorghe, C; Munteanu, C; Istrate, B.,SURFACE CHARACTERIZATION OF FRACTURE IN POLYLACTIC ACID VS. PLA PLUS PARTICLE (CU, AL, GRAPHENE) INSERTIONS BY 3D Fused Deposition Modeling Technology COATINGS, 2021, vol 11, nr. 6, DOI10.3390/coatings11060633, FI 2.881 | | | | | | |
|  | Ris20. Gheorghe, C; Petre, G; Trante, O; Milea, CG; Ghiban, B,CORROSION BEHAVIOUR OF ZAMAK COMPONENTS IN A HEARING AID, UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, VOL 83, NR.4, 251-262, 2021, FI 0 | | | | | | |
|  | Ris21. LG; Tanase, C; Vasilescu, M; Zamfir, R; Ghiban, B,RESEARCH RELATED TO RETAINED AUSTENITE ON RAIL AND WINDMILL BEARINGS, UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, 2021, VOL 83, NR. 2, 191-200 | | | | | | |
|  | Ris22. Andrei, M; Ghiban, B, EVALUATION AND CONTROL OF MICROBIOLOGICALLY INFLUENCED CORROSION (MIC) OF A PIPELINE USING A BIOFILM SAMPLING DEVICE, UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, 2020, VOL 82, NR. 3, 249-260 | | | | | | |
|  | Ris23. Rucai, V., Constantin, N., Ghiban B., Ciuca, I., Dobrescu, C.- Quantitative Microstructural Analysis of a Ni-based | | | | | | |
|  | Luca N.A., Bordeasu I., Ghiban B., Ciungu G., Iordache C.M.-"HEAT TREATMENT INFLUENCE ON THE CAVITATIONAL EROSION Zn-Mg BEHAVIOR USED FOR BIOMEDICAL APPLICATIONS",Tribology in Industry 2023, DOI:10.24874/ti.1548.09.23.11 | | | | | | |
|  | Iordache C.M, Luca N.A., Bordeasu I., Ciungu G.,Ghiban B.,-Cavitational Erosion Behaviour of Biodegradable Alloy from Zn-Mg System for Biomedical Applications",Tribology in Industry 2023, DOI:10.24874/ti.1604.11.23.11 | | | | | | |
|  | Anania, FD; Pena, AE; Canarache, RM; Gruionu, LG - The design of a reconfigurable modular 5X milling machine, 7TH INTERNATIONAL CONFERENCE INTEGRITY-RELIABILITY-FAILURE (IRF2020), Page 395-396 Published 2020, Document Type Proceedings Paper, ISBN 978-989-54756-1-2, Accession Number WOS:000731040500082 | | | | | | |
|  | Claudiu Florinel BÎȘU, Dorel Florea ANANIA, Emilia BĂLAN, Cosmin GOGU, Andra Elena PENA - Vibration analysis of a microsatellite panel during the shaker testing, Proceedings in Manufacturing Systems, Volume 18, Issue 2, 2023, 61-69, ISSN 2067-9238 (print), 2343-7472 (online), Indexare BDI: ProQuest, Copernicus | | | | | | |
|  | Emilia BĂLAN, Tudor ALEXANDRU, Andra Elena PENA - An overview on innovative composite materials employed in the construction of microsatellite, Annals of the Academy of Romanian Scientists Series on Engineering Sciences, Volume 14, pp.68-81 Number 1/2022, ISSN 2066-6950 (Print), 2066-8570 (Online), Publisher Editura Academiei Oamenilor de Știință din România, indexare BDI: WorldCat , DOAJ, | | | | | | |
|  | Dorel Florea Anania, Emilia Bălan, Miron Zapciu, Marilena Stoica, Andra Elena Pena - QO-cardsat microsatellite calculation methodology of the position of the joints and required torque to open the panels, Proceedings in Manufacturing Systems, Volume 17, Issue 2, 2022, 69-77 ISSN 2067-9238, indexare BDI: COPERNICUS | | | | | | |
|  | F D Anania, A E Pena, R M Canarache - Research of design an educational modular 5 axis milling machine, IOP Conference Series: Materials Science and Engineering, Volume 1037, 24th Innovative Manufacturing Engineering and Energy International Conference (IManEE 2020) 14th-15th December 2020, Athens, Greece, ISSN: 1757-8981, doi:10.1088/1757-899 | | | | | | |
|  | A. G. Păun, S. Popescu, C. Ungureanu, R. Trusca, and C. Pirvu Reduced TiO2 Nanotubes/Silk Fibroin/ZnO as a Promising Hybrid Antibacterial Coating, ChemPlusChem, 89, e202300450 (1 of 13) 2024 | | | | | | |
|  | A. G. Paun, C. Dumitriu, C. Ungureanu, S. Popescu Silk Fibroin/ZnO Coated TiO2 Nanotubes for Improved Antimicrobial Effect of Ti Dental Implants, Materials, 16, 5855. https://doi.org/10.3390/ma16175855, 2023 | | | | | | |
|  | A.-M. Negrescu, V. Mitran, W. Draghicescu, S. Popescu, C. Pirvu, I. Ionascu, T. Soare, S. Uzun, S. M. Croitoru, A. Cimpean, TiO2 Nanotubes Functionalized with Icariin for an Attenuated In Vitro Immune Response and Improved In Vivo Osseointegration Journal of Functional Biomaterials 13, 43, 2022. | | | | | | |
|  | A.G. Olaru. V. Butculescu, C. Dumitriu, N. Badea, S. Popescu, C. Ungureanu, C. Pirvu “Biopolymers as intermediate layers for amoxicillin grafting on antibacterial surface”, Surfaces and Interfaces, 33, 102224, 2022 | | | | | | |
|  | S. Popescu, M. Zarif, C. Dumitriu, C. Ungureanu, C. Pirvu, Silk fibroin-based hybrid nanostructured coatings for titanium implantable surfaces modification. Coatings, 10(6), 2020 | | | | | | |
|  | A. G. Păun, V. Petrina, N. Badea, C. Ungureanu, S. Popescu and C. Dumitriu Y-Branched Titanium Dioxide Nanotubes as a Potential Antimicrobial Coating for Implants, Crystals 13, 1695, 2023 | | | | | | |
|  | Adriana Comănescu, Alexandra Rotaru, Florian Ion Tiberiu Petrescu, *Study of forces in a 2T9R robot mechanism*, Independent Journal of Management and Production, vol. 12, nr. 9, 741-773, Special Edition, 21 Decembrie 2021, IFLOG 2020, ISSN 2236-269X, indexat BDI Index Copernicus, Mendeley, SCOPUS - DOI: 10.14807/ijmp.v12i9.1554, ISI Thompson Reuters **WOS 000744179600001** | | | | | | |
|  | Adriana Comănescu, Alexandra Rotaru, Liviu Marian Ungureanu, Florian Ion Tiberiu Petrescu, *Inverse Modeling of the Stewart Foot*, Independent Journal of Management and Production, vol. 12, nr. 9, 774-793, Special Edition, 21 Decembrie 2021, IFLOG 2020, ISSN 2236-269X, indexat BDI Index Copernicus, Mendeley, indexat SCOPUS - DOI: 10.14807/ijmp.v12i9.1557, indexat ISI Thompson Reuters **WOS 000744179600003** | | | | | | |
|  | Adriana Comănescu, Alexandra Rotaru, Liviu Marian Ungureanu, Florian Ion Tiberiu Petrescu, *Positional Modeling of the 2T6R robot mechanism*, Independent Journal of Management and Production, vol. 12, nr. 9, 902-921, Special Edition, 21 Decembrie 2021, IFLOG 2020, ISSN 2236-269X, indexat BDI Index Copernicus, Mendeley, indexat SCOPUS - DOI: 10.14807/ijmp.v12i9.1563, indexată ISI Thompson Reuters **WOS 000744179600011** | | | | | | |
|  | V. Moise, I. Dugăeşescu, L. M. Ungureanu, **A. Rotaru**, *Geometric synthesis of the folding bridge mechanism*, The 9th International Conference on Advanced Concepts in Mechanical Engineering, Advanced Concepts in Mechanical Engineering, ACME Iaşi 2020, 4-5 Iunie 2020, indexată în ISI Web of Science, Scopus, EI Compendex, DOI 10.1088/1757-899X/997/1/012080 | | | | | | |
|  | V. I. Gheorghe, S. Petrache, **A. Rotaru**, A. L. Cartal, I. I. Tudorache, *Minirover with Mixed Suspension System*, Proceedings of the 2020 12th International Conference on Electronics, Computers and Artificial Intelligence (ECAI 2020), 25-27 Iunie 2020, Bucureşti, ISSN 2378-7147, indexată Scopus şi ISI Web of Science **WOS 000627393500013**; DOI 10.1109/ECAI50035.2020.9223131 | | | | | | |
| Nr. crt. | Brevete obținute în întreaga activitate | | | | | | |
|  | Denes T., Tamas-Gavrea D., Istoan R., Tiuc A.E., Manea D.L., **Vasile O**., *Modular panel based on sheep's wool and method of obtaining it*, Patent Number(s): RO135991-A0, “Modular panel, has individual laminated panels including core formed by mechanical spraying of wool fibers with solution based on hydrated lime, wheat flour and water, and outer layer formed by mixing fibers with hydrated lime in vessel”; Derwent Primary Accession Number: 2022-E5572B; International Patent Classification: E04B-001/82specifically with respect to sound only INFO 6953; Publ. Date: 30.09.2022 | | | | | | |
|  | Procedeu si instalatie de obtinere electrochimica a unui material compozit cu matrice metalica, Arghirescu Marius, Costoiu Mihnea, Semenescu Augustin, Avram Vasile, Burada Marian, Militaru Nicolae Gheorghe, Amza Catalin Gheorghe, Chivu Oana Roxana, RO 1328167 /2020 | | | | | | |
|  | Propunere brevet: 137455 A0 (51) B64G 1/22 (2006.01) (21) a 2022 00784 (22) 29/11/2022 (41) 30/05/2023//5/2023 (71) UNIVERSITATEA POLITEHNICA DIN BUCUREŞTI, SPLAIUL INDEPENDENŢEI NR.313, SECTOR 6, BUCUREŞTI, B, RO (72) Anania Florea Dorel, Bîşu Claudiu Florinel, Zapciu Miron, Pupăză Cristina, Bălan Emilia, Stoica Marilena, **Pena Andra- Elena**, Georgescu Luminiţa- Elena, Alexandru Tudor, Cuciureanu Dan, Sistem de deschidere cu control pasiv al cuplului de deschidere şi preluarea dilataţiilor termice la deschiderea panourilor din construcţia micro-sateliţilor | | | | | | |
| Contracte de cercetare | | | | | | | |
| Anul | | Denumirea contractului  și programului de finanţare | Tipul finanţării (Nationala/ Internationala | Nr. contract | Instituţia coordonatoare | Nume director proiect | Perioada de derulare |
| 2021 | | Enhancing Career and Service Learning in Higher Education ENHANCE  Erasmus+ | International | 2021-1-ES01-KA220-HED-000031128 | UNIVERSIDAD DE VALLADOLID, Spania | SPÂNU Paulina | 2021 – 23 |
| 2021 | | Reinforcing Non-University Sector at the Tertiary Level in Engineering and Technology to Support Thailand Sustainable Smart Industry (ReCap4.0)  Erasmus+ Capacity  Building in the field of Higher Education (CBHE) | International | 619325-EPP-1-2020-1-TH-EPPKA2-CBHE-JP | Asian Institue of Technology (AIT), Thailanda | DIJMĂRESCU Manuela Roxana | 2021 - 24 |
| 2021 | | "PROTECT – PROmoting Transformative and Environmental Competences using Technology  Erasmus+ | International | 2021-1-IT02-KA220-SCH-000032800 | ANTARES Società per lo Sviluppo dei Sistemi Organizzativi a rl - Italia | TARBĂ Ioan Cristian | 2021 – 24 |
| 2021 | | Proiectarea și asamblarea unor paleți agabaritici pentru automatizarea unei linii de fabricație industriale | Nationala | 1/2021 | UNSTPB | ABAZA Bogdan | 2021 |
| 2022 | | Advanced e-Learning for Cultural Heritage Restorers Specialisation  Erasmus+ | International | 2021-1-IT01-KA220-VET-000028100 | Associazione “ARTE E FEDE”, Italia | SAVU Tom | 2022 – 24 |
| 2022 | | Misura dell’Efficacia con lo storytelling conversazionale  Erasmus+ | International | 2022-1-IT02-KA210-ADU-000084330 | MATTERS SRL, Italia | SAVU Tom | 2022 – 24 |
| 2022 | | High Professional Skills for Advanced Science Communication  Erasmus+ | International | 22022-1-IT01-KA220-VET-000086033 | Fondazione IDIS-Città della Scienza, Italia | SAVU Tom | 2022 – 25 |
| 2023 | | FLOWS - Further Learning, Outreach and Working Skills  Erasmus+ | International | 2022-1-TR01-KA220-YOU-000089240 | ISKUR CARSAMBA HIZMET MERKEZI MUDURLUGU, Turcia | SPÂNU Paulina | 2023 – 24 |
| 2023 | | High Intelligent Tutoring System for the academic success (HITS)  Erasmus+ | International | 2023-1-IT02-KA220-HED-000152340 | UNIVERSITA DEGLI STUDI DI CAMERINO, Italia | SPÂNU Paulina | 2023 – 26 |
| 2023 | | Cercetări privind proiectarea și realizarea unor componente de matrițe pentru îndoirea unor terminale pentru conexiuni electrice | National | 1 / 20 iulie 2023 | POLITEHNICA București | Lazăr Marius-Vali | 20.07.2023-31.12.2024 |
| 2024 | | Contract de prestări servicii de cercetare | National | 01/04/2024 | POLITEHNICA București | Lazăr Marius-Vali | 01.04.2024-31.12.2027 |
| 2024 | | DREAMER - Development and Reconstruction Empowerment through Advanced Project Management Education and Research  Erasmus+ | International | 2024-1-SK01-KA220-HED-000248287 | Slovak University of Technology in Bratislava (STUBA) - Slovacia | TARBĂ Ioan Cristian | 2024 - 27 |
| 2023 | | Model inteligent de monitorizarea a vibratiilor cu integrarea automata a diagnosticarii defectelor arborilor principali de turatii mari in contextul digitalizarii industriale | Națională | Contract ARUT nr.60 | POLITEHNICA București | Conf.dr.ing. Claudiu BÎȘU | 2023-2024 |
| 2021 | | Cercetarea conformității fabricației unor repere din material plastic obținute prin injecție în matriță  Contract cu terți | Națională | SPETROMAS SRL  Contract nr.  17808/24.09.2021 | POLITEHNICA București | Conf.dr.ing. Dana TILINĂ | 09.2021  10-2021 |
| 2020 | | Prelucrarea materialelor avansate pe bază de aliaje de Ti și Co prin microgăurire electroerozivă asistată de  ultrasunete/  UEFISCDI/  Programul 2 –  Creșterea competitivității economiei românești prin cercetare, dezvoltare și inovare | Nationala | 329 PED/  2020 | UNSTPB | Liviu Daniel Ghiculescu |  |
| 2022 | | Dezvoltarea și producerea de orteze de mână imprimate 3D în punctele de  îngrijire și recuperare  medicală/  UEFISCDI/  Programul 4 – Cercetare fundamentală și de frontieră | Nationala | PCE 94/ 2022 | UNSTPB | Popescu Diana |  |
| 2023 | | Automatizarea unui flux logistic de  asamblare/  UNSTPB | Nationala | ARUT  110/  04.12.2  023 | UNSTPB | Chiscop Florina |  |
| 2023 | | Sistem automatizat de colectare separată a deșeurilor de echipamente electrice și electron  ice/  UNSTPB | Nationala | ARUT  139/  04.12.2  023 | UNSTPB | Popa  Laurentiu |  |
| 2023 | | Creșterea vitezei si preciziei de asamblare prin procesarea video a  imaginii/  UNSTPB | Nationala | ARUT  48/  10.10.2  023 | UNSTPB | Parpala  Radu  Constantn |  |
| 2023 | | Automatizarea montajului de fuzibile si relee in  cutiile din cablaje/  UNSTPB | Nationala | ARUT  50/  10.10.2  023 | UNSTPB | Cazacu  Carmen-  Cristiana |  |
| 2020-2024 | | Improving  Cancer  Diagnostics in  Flexible  Endoscopy using  Artificial  Intelligence and  Medical  Robotics  (IDEAR) | Internaţională  RomâniaNorvegia | RO-NO  2019-0138 | UNIVERSITA  TEA DIN  CRAIOVA | Pastramă ŞtefanDan |  |
| 2020-2023 | | Reactive Inkjet  Printing of  Epoxy  Thermoset  Composites  (RIPE4TEC) | Internaţională Orizont 2020 | M.ERANET  167/2020 | JOANNEUM  RESEARCH  (AUSTRIA) | Constantinescu Dan-Mihai |  |
| 2020-2023 | | Sistem inteligent mobil de conversie a resurselor proprii si de optimizare a consumului de energie pentru producatori cu potential ridicat  de poluare  (SyCON) | Naţională Program Operațional  Competitivitate  2014-2020 | POC/163/1  /3/121404 | AUDIT IT&C SRL | Hadăr Anton |  |
| 2020 | | Research of Two  Aetna Standard  Piercing Mills to  Determine Their Load  Capability | Naţională | Contract de Prestări Servicii Nr.  9620 /  03.06.2020  (nr. Intern  8450 /  17.06.2020) | IPROLAM S.A. | Sorohan  Ştefan |  |
| 2021 | | Studiul stării de tensiune şi deformaţie cu metoda elementelor finite a trei capete de extruzie de 3000 tf | Naţională | Contract de Prestări Servicii Nr.  11291/21.0  6.2021 | IPROLAM S.A. | Baciu Florin |  |
| 2022 | | Testarea rezistentei la rupere a 4 epruvete fabricate din material compozit de TiC cu matrice metalica de  Inconel 718 | Naţională | Contract de Prestări Servicii Nr.  26864/14.1  1.2022 | INCDFLPR | Baciu Florin |  |
| 2022 | | Studiul stării de tensiuni si deformaţie cu metoda elementelor finite a trei capete de extruzie de 3000 tf | Naţională | Contract de Prestări Servicii Nr.  11291/21.0  6.2021 | IPROLAM S.A. | Baciu Florin |  |
| 2022 | | Teste de vibrații pe componenta din domeniul aerospatial | Naţională | Contract de Prestări  Servicii  1264/08.04. 2022 | S.C. High  Performance Structures Inovaţie şi  Dezvoltare SRL | Apostol  Dragoş Alexandru |  |
| 2022-  2023 | | Testarea unui element elastic la frecvența de 0,5 Hz, supus unei mișcări unghiulare de ±300 un număr de 106  cicluri  Testarea unui element elastic la mișcarea pe verticală a acestuia pe o cursă de 7,5 mm cu o frecvența de 20 Hz un număr de 107 cicluri | Naţională | Contract de Prestări Servicii Nr.  26863/14.1  1.2022 | S.C. TECNA  GENERAL CONSTRUCT  S.R.L. | Baciu Florin |  |
| 2024 | | Studiu privind evaluarea deformaţiilor specifice cu mărci tensometrice la încercarea la încovoiere a 4 (patru) grinzi de poduri la viaductele de acces pod Brăila | Naţională | Contract de Prestări Servicii Nr.  24006/10.0  5.2024  (Nr. intern  UPB:  1550/10.05.  2024) | INCERTRANS  S.A | Ciolcă Miruna |  |
| 2024 | | Studiu privind evaluarea deformatiilor specifice cu marci tensometrice la încercarea la incovoiere a 6 (șase) grinzi prefabricate de beton, apmplasate pe stand, din cadrul Proiectului  “Autostrada A1 Lot 5  Pitești – Curtea de  Argeș” | Naţională | Contract de Prestări Servicii Nr.  24009/29.1  0.2024  (Nr. intern  UPB:  33285/18.1  0.2024) | INCERTRANS  S.A | Ciolcă Miruna |  |
| 2024 | | Studiu privind evaluarea stării de tensiune a structurii de rezistență a unei caje nou proiectate de laminor | Naţională | Contract de Prestări Servicii nr.  9781 /  13.05.2024  (Nr. intern  UNSTPB:  9129 /  20.05.24) | IPROLAM S.A. | Neagoe  Cătălin |  |
| 2024 | | Testarea la tracțiune a unor epruvete de aluminiu | Naţională | Contract de Prestări  Servicii 4956  /18.03.2024 | S.C. High  Performance Structures Inovaţie şi  Dezvoltare SRL | Constantinescu Dan-Mihai |  |
| 2024 | | Testarea la oboseală a unor epruvete de aluminiu | Naţională | Contract de Prestări  Servicii  4957  /18.03.2024 | S.C. High  Performance Structures Inovaţie şi  Dezvoltare SRL | Constantinescu Dan-Mihai |  |
| 2024 | | Testarea la tracțiune a unor epruvete de carbon | Naţională | Contract de Prestări  Servicii nr  4958/18.03. 2024 | S.C. High  Performance Structures Inovaţie şi  Dezvoltare SRL | Constantinescu Dan-Mihai |  |
| 2021 | | Virtual &  Augmented Reality  Trainers Toolbox  To Foster Low  Carbon Tourism &  Related  Entrepreneurship  (VINCI)  ERASMUS+ , KA2  Strategic partnership | Internationala | 2021-1MT01KA220-  VET-  00002501  1 | MECB Ltd. | Prof.univ.dr.ing. Catalin  Gheorghe Amza | 2022-  2024 |
| 2021 | | EuropeAn 3d printinG poLymer opErators (EAGLE)  ERASMUS+ , KA2  Strategic partnership | Internationala | 2021-1CZ01KA220-  VET-  00003300  7 | Evropská rozvojová  agentura, s.r.o. ,  Cehia | Prof.univ.dr.ing. Catalin  Gheorghe Amza | 2021-  2024 |
| 2021 | | “A Modular VR & AR Based  Educational Toolkit  To Help EU Adults  Foster Climate  Neutral Practices  (VITAL)  ERASMUS+ , KA2  Strategic partnership | Internationala | 2021-1CZ01KA220-  ADU-  00002653  2 | Palacký University  Olomouc, Cehia | Prof.univ.dr.ing. Catalin  Gheorghe Amza | 2022-  2024 |
| 2022 | | Studii de caz privind evaluarea riscurilor de  Securitate și  Sănătate în Muncă, în cadrul SC  GENERAL  PUBLIC SERV SA  /Contracte cercetare terti | Nationala | 83 | POLITEHNICA  Bucuresti | S.l.dr.ing.  Dumitriu  Loredana | 2022 |
| 2022 | | Solutii constructive alternative pentru realizarea  produselor de tip tija utilizate in  industria agricola, in cadrul SC  SMART BYTE  SOFT SRL  /Contracte cercetare terti | Nationala | 15 | POLITEHNICA  Bucuresti | Conf.dr.ing.Dum itru Titi Cicic | 2022 |
| 2023 | | Studii de caz  Designul identității grafic-vizuale a noului site e-  dermashop pentru EXPERT  COSMETICS  S.R.L.  /Contracte cercetare terti | Nationala | 7 | POLITEHNICA  Bucuresti | Ș.L.Dr. Ing. Ioana-Cătălina  ENACHE | 2023 |
| 2023 | | Designul identităţii grafic-vizuale”  pentru S.C. INDAR  TECH SRL  /Contracte cercetare terti | Nationala | 8 | POLITEHNICA  Bucuresti | S.l. Dr. Ing. Ana-  Maria  NICOLAU | 2023 |
| 2023 | | Cercetari teoretice si experimentale  privind elaborarea unor proceduri de  reparatie/incarcare prin sudare,  respectiv infiintarea unui laborator de sudare in cadrul firmei SC Arva  Metals & Steels  SRL  /Contracte cercetare terti | Nationala | 76 | POLITEHNICA  Bucuresti | Conf.univ.dr.ing.  Dumitru Titi  Cicic | 2023 |
| 2023 | | “Enabling Industry  4.0 skills in textile  SMEs” – TEX4.0  ERASMUS+ , KA2  Strategic partnership | Internationala | 2023-1DE02KA220-  VET-  00015400  9 | Technical  University of  Dresden,  Germania | Prof.univ.dr.ing. Catalin  Gheorghe Amza | 2023-  2025 |
| 2024 | | Building  Opportunities for  SMEs Sustainable  Entrepreneurship with Artificial  Intelligence in  Industry 5.0 -  BOOST-AI  ERASMUS+ , KA2  Strategic partnership | Internationala | 2024-1RO01KA220-  HED-  00024623  8 | POLITEHNICA  Bucuresti | Prof.univ.dr.ing. Catalin  Gheorghe Amza | 2024-  2026 |
| 2024 | | TRAINEE - Advanced MR  Training foR  HumAn-Centric  ProductIon  EmpoweriNg  Engineering TalEnt – TRAINEE  ERASMUS+ , KA2  Strategic partnership | Internationala | 2024-1MT01KA220-  HED-  00024670  1 | University of Malta, Malta | Prof.univ.dr.ing. Catalin  Gheorghe Amza | 2024-  2027 |
| 2024 | | Studiu privind sanatatea si  securitatea in  munca pentru  mediul de lucru al unui operator distributie  echipamente industriale  /Contracte cercetare terti | Nationala | 41 | POLITEHNICA  Bucuresti | Prof.univ.dr.ing  Oana Roxana Chivu | 2024 |
| 2021 | | "Proiectarea si optimizarea  constructiva a unei hale industriale  folosite la vopsirea in camp elecrostatic | Nationala |  | POLITEHNICA  Bucuresti | S.l.univ.dr.ingFlo rea Bogdan | 2021 |
| 2021 | | "Aprecierea calitatii arborilor pe  picior prin metode nedistructive" | Nationala | 12946 | POLITEHNICA  Bucuresti | S.L. Petriceanu  Constantin Stefan | 2021 |
| 2021 | | "Controlul la receptie al  produselor importate" | Nationala | 14894 | POLITEHNICA  Bucuresti | S.L. Petriceanu  Constantin Stefan | 2021 |