

UNIVERSITATEA TEHNICĂ „GHEORGHE ASACHI” DIN IAȘI
FACULTATEA DE Știința și Ingineria Materialelor

**FIȘA DE AUTOEVALUARE
ȘI DE EVALUARE DE CĂTRE DIRECTORUL CCPD
(pentru activitatea în CCPD)**

Numele și prenumele conducătorului de doctorat evaluat	CIMPOEȘU NICANOR
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Criteriul de evaluare	Indicatori de performanță (cu explicitarea modului de calcul a punctajului pentru fiecare realizare, conf. Anexa 1)	Punctaj
1. Cercetarea științifică (minimum: 150 puncte)	<p>1.1. Elaborare cărți/ monografii/ tratate Realizări:</p> <p>1.1.1 C.D. Florea, C. BEJINARIU, N. CIMPOESU, R. CIMPOESU, Automotive Brake Disc Materials, Materials Research Forum LLC, Millersville, PA 17551, USA, ISSN 2471-8890, 2021. 135 pag. 50x(135/100/4)</p> <p>1.1.2. Cimpoesu, N.; Cimpoesu, R. Special Issue on "Active Materials for Medical Applications". Appl. Sci. 2022,, ISBN 978-3-0365-5267-5 (hardback); ISBN 978-3-0365-5268-2 (PDF) https://doi.org/10.3390/books978-3-0365-5268-2, Pages: 158</p> <p>1.1.3. Bejinariu C., Cimpoesu N., Corrosion Resistance Enhancement of the Materials Surface, Materials, MDPI, ISBN978-3-0365-8029-6 (Hardback), ISBN978-3-0365-8028-9 (PDF), https://doi.org/10.3390/books978-3-0365-8028-9, 194pag.</p>	16.68 39.5 48.5
	<p>1.2. Articole publicate în reviste de specialitate Realizări:</p> <p>1.2.1 Manasijevic, D., Balanovic, L., Cimpoesu, N., Markovic, I., Gorgievski, M., Stamenkovic, U., Stepanovic, A., Investigation of thermal properties of Al-Cu eutectic alloy for phase change energy storage applications, <i>Journal Of Thermal Analysis And Calorimetry</i>, Vol., 150, Issue 1, Page 77-85, DOI10.1007/s10973-024-13952-5, 2024. (30+40x3)/7</p> <p>1.2.2 Cimpoesu, R., Lutcanu, M.,; Cazac, A.M., Adomnitei, I., Bejinariu, C., Andrusca, L., Prelipceanu, M., Cioca, L.I., Chicet, D.L., Radu, AM., Cimpoesu, N., Electrochemical Corrosion Resistance of Al2O3-YSZ Coatings on Steel Substrates, <i>Applied Sciences-Basel</i>, Vol. 14, Issue 23, DOI10.3390/app142310877, Article Number 10877, 2024. (30+40x2.5)/11</p> <p>1.2.3 Sava, SD., Pricop, B., Popa, M., Lohan, NM., Matcovschi, E.; Cimpoesu, N., ; Comaneci, RI., Bujoreanu, LG., Highlighting Free-Recovery and Work-Generating Shape Memory Effects at 80r-PET Thermoformed Cups, <i>Polymers</i>, Vol. 16, Issue24, DOI10.3390/polym16243598, Article Number 3598, 2024. (30+40x4.7)/8</p> <p>1.2.4 Moraras, CI., Husaru, D., Goanta, V., Barsanescu, PD., Lupu, FC., Munteanu, C., Cimpoesu, N., Cosau, ER., A New Method for Compression Testing of Reinforced Polymers, <i>Polymers</i>, Vol., 16, Issue 21, DOI10.3390/polym16213071, Article Number, 3071, 2024. (30+40x4.7)/8</p> <p>1.2.5 Tiron, V., Jijie, R., Matei, T., Cimpoesu, N., Bulai, G., Tuning chemical composition and structural properties of bismuth ferrite based thin films by reactive bipolar HiPIMS, <i>Ceramics International</i>, Vol. 50, Issue 22, Page 46663-46672, Part B, DOI10.1016/j.ceramint.2024.09.018, 2024. (30+40x5.1)/5</p> <p>1.2.6 Cimpoesu, N.,; Paleu, V., Panaghie, C., Roman, A.M., Cazac, AM., Cioca, LI.,; Bejinariu, C., Lupescu, SC., Axinte, M., Popa, M., Zegan, G., Mechanical Properties and Wear Resistance of Biodegradable ZnMgY Alloy, <i>Metals</i>, Vol. 14, Issue 7, DOI10.3390/met14070836, Article Number 836, 2024. (30+40x2.6)/11</p> <p>1.2.7 Sava, SD., Pricop, B., Comaneci, RI., Cimpoesu, N., Popa, M., Lohan, NM., Bujoreanu, LG., Variations in the Thermomechanical and Structural Properties during the Cooling of Shape-Memory R-PETG, <i>Polymers</i>, Vol. 16, Issue14, DOI10.3390/polym16141965, Article Number 1965, 2024. (30+40x4.7)/7</p> <p>1.2.8 Sutic, AT., Chelariu, R., Cimpoesu, R., Roman, AM., Istrate, B., Goanta, V., Benchea, M., Moscu, M., Alexandru, A., Cimpoesu, N., Zegan, G., Corrosion Behavior and Mechanical Properties of Zn-Ti Alloys as Biodegradable Materials, <i>Metals</i>, Vol. 14, Issue 7, DOI10.3390/met14070764, Article Number 764, 2024. (30+40x2.6)/11</p> <p>1.2.9 Cocean, A., Cocean, G., Postolachi, C., Garofalide, S., Pricop, DA.,; Munteanu, BS.; Bulai, G., Cimpoesu, N., Motrescu, I., Pelin, V., Ababei, RV., Dimitriu, DG., Cocean, I., Gurlui, S., High Energy Pulsed Laser Beam to Produce a Thin Layer of Crystalline Silver without Heating the Deposition Substrate and Its Catalytic Effects, <i>Quantum Beam Science</i>, Vol. 8, Issue 2, DOI10.3390/qubs8020016, Article Number 16, 2024. (30+40x1.3)/14</p>	21.43 11.82 27.25 27.25 46.8 12.2 31.14 12.18 3.71

1.2.10 Chelariu, RG. ; Cimpoesu, R., Jurca, AM., Popa, CM., Benchea, M., Badarau, G., Istrate, B., Cazac, AM., Cimpoesu, N., Pintilie, DD., ; Vasilescu, GD., Bejinariu, C., Analysis of Chemical, Microstructural and Mechanical Properties of a CuAlBe Material Regarding Its Role as a Non-Sparking Material, <i>Materials</i> , Vol. 17, Issue10, DOI10.3390/ma17102220, Article Number 2220, 2024. (30+40x3.1)/12	12.83
1.2.11 Badarau, G., Popa, M., Stoian, G., Roman, AM., Comaneci, RI., Pricop, B., Cimpoesu, N., Bujoreanu, LG., Uncommon Cold-Rolling Faults in an Fe-Mn-Si-Cr Shape-Memory Alloy, <i>Crystals</i> , Vol. 14, Issue3, DOI10.3390/cryst14030250, Article Number 250, 2024. (30+40x2.4)/8	15.75
1.2.12 Gurau, C., Tolea, F., Cimpoesu, N., Sofronie, M., Ceoromila, AC.,; Stefanescu, C. ; Gurau, G.,Magnetic Shape Memory Nanocomposites Assembled with High Speed High Pressure Torsion, <i>Nanomaterials</i> , Vol., 14, Issue 5, DOI10.3390/nano14050405, Article Number 405, 2024. (30+40x4.4)/8	25.75
1.2.13 Lazar, P; Cimpoesu, N; Istrate, B; Cazac, AM; Burduhos-Nergis, DP.; Benchea, M; Berbecaru, AC ; Badarau, G; Vasilescu, GD; Popa, M; Bejinariu, C.,Microstructural and Mechanical Properties Analysis of Phosphate Layers Deposited on Steel Rebars for Civil Constructions, <i>Coatings</i> , Volume 14, Issue 2, DOI10.3390/coatings14020182, Article Number 182, 2024. (30+40x2.9)/11	13.27
1.2.14 Roman, AM; Cimpoesu, R; Pricop, B; Cazacu, MM; Zegan, G; Istrate, B; Cocean, A; Chelariu, R; Moscu, M; Badarau, G; Cimpoesu, N; Ivanescu, MC., Investigations on the Degradation Behavior of Processed FeMnSi-xCu Shape Memory Alloys, <i>Nanomaterials</i> , Vol. 14, Issue 4, DOI10.3390/nano14040330, Article Number 330, 2024. (30+40x4.4)/12	17.17
1.2.15 Chelariu, GR; Cimpoesu, N; Paraschiv, P ; Prisecariu, BA ; Rusu, I; Stirbu, I; Sandu, GI; Benchea, M; Bejinariu, C., Structural And Mechanical Properties Of Hot Rolled Cualbe Non-Spark Alloy, <i>Archives Of Metallurgy And Materials</i> , Vol. 69, Issue 1, Page263-268, DOI10.24425/amm.2024.147817, 2024. (30+40x0.7)/9	6.44
1.2.16 Mistreanu, S; Tudose-Sandu-Ville, F ; Munteanu, C; Cimpoesu, R; Lutcanu, M; Stirbu, I. ; Manole, V; Stamate, C; Rusu, O; Cimpoesu, N., Influence Of Corrosion On Thermo-MechaniCal Contact Fatigue In Rolling Conditions With Low Amplitude Sliding, <i>Archives Of Metallurgy And Materials</i> , Vol. 69, Issue 2, Page631-638, DOI10.24425/amm.2024.149792, 2024. (30+40x0.7)/10	5.8
1.2.17 Bunea, G., Toma, I.-O., Alexa-Stratulat, S.-M., Mihai, P., Cimpoesu, N., Istrate, B., Stoian, G., Assessing the effect of adding TiO2 and calcined montmorillonite clay nanoparticles on the mechanical properties of cement mortar, <i>Construction and Building Materials</i> , Vol. 41326, 2024, Article number 134910, DOI 10.1016/j.conbuildmat.2024.134910. (30+40x7.4)/7	46.57
1.2.18 Antohe, ME; Dascalu, CG ; Forna, DA ; Hitruc, EG; Cimpoesu, N; Forna, NC., Research on the Quality of Partially Removable Skeletal Prostheses Made Using Classical Versus Modern Sintering Techniques, <i>Biomedicine</i> , 2023, Vol.11, Issue 9, DOI10.3390/biomedicines11092397 (30+40x4.7)/6	36.33
1.2.19 Burduhos-Nergis, DD; Vizureanu, P; Sandu, AV; Cimpoesu, N., Mechanical performance of fly ash blended geopolymer composite reinforced with recycled glass fibers, <i>EEMJ</i> , 2023, Vol. 22, Issue8, DOI10.30638/eemj.2023.110. (30+40x1.1)/4	18.5
1.2.20. Valcea, AE; Maris, I; Negrea, AD; Cimpoesu, N; Garbea, G; Grecu, D; Moga, SG; Istrate, B; Finta, FN; Rizea, AD; Anghel, DC; Munteanu, C ; Petrescu, MI; Abrudeanu, M., Interdisciplinary Research on Medieval Fresco Subjected to Degradation Processes in the Corbii de Piatra Cave Church, <i>Materials</i> , 2023, Vol. 16, Issue15, DOI10.3390/ma16155257, (30+40x3.4)/14	11.86
1.2.21 Roman, AM; Cimpoesu, R; Pricop, B; Lohan, NM; Cazacu, MM ; Bujoreanu, LG ; Panaghie, C ; Zegan, G; Cimpoesu, N; Murariu, AM., Influence of Dynamic Strain Sweep on the Degradation Behavior of FeMnSi-Ag Shape Memory Alloys, <i>Journal Of Functional Biomaterials</i> , 2023, Vol 14, Issue7, DOI10.3390/jfb14070377, (30+40x4.8)/10	22.2
1.2.22 Toma, IO; Stoian, G; Rusu, MM ; Ardelean, I; Cimpoesu, N; Alexa-Stratulat, SM., Analysis of Pore Structure in Cement Pastes with Micronized Natural Zeolite, <i>Materials</i> , 2023, Vol16, Issue13, DOI10.3390/ma16134500, (30+40x3.4)/6	
1.2.23 Burduhos-Nergis, DP; Cimpoesu, N; Epure, EL ; Istrate, B ; Burduhos-Nergis, DD; Bejinariu, C., Ca-Zn Phosphate Conversion Coatings Deposited on Ti6Al4V for Medical Applications, <i>Coatings</i> , Volume13Issue6, DOI10.3390/coatings13061029 (30+40x3.4)/6	27.66
1.2.24 Sava, SD; Lohan, NM; Pricop, B; Popa, M; Cimpoesu, N ; Comaneci, RI; Bujoreanu, LG, On the Thermomechanical Behavior of 3D-Printed Specimens of Shape Memory R-PETG, <i>Polymers</i> , Volume15Issue10 DOI10.3390/polym15102378 (30+40x5)/7	27.66
1.2.8 Tiron, V; Jijie, R; Dumitru, I; Cimpoesu, N; Burducea, I ; Iancu, D; Borhan, A; Gurlui, S; Bulai, G., Piezo-ferroelectric response of bismuth ferrite based thin films and their related photo/piezocatalytic performance, <i>CERAMICS INTERNATIONAL</i> , Volume49, Issue12, Page20304-20314 DOI10.1016/j.ceramint.2023.03.154 (30+40x5.2)/9	32.85
2.2.9 Lutcanu, M, ; Cimpoesu, R; Abrudeanu, M; Munteanu, C ; Moga, SG; Coteata, M; Zegan, G; Benchea, M; Cimpoesu, N; Murariu, AM., Mechanical Properties and Thermal Shock Behavior of Al2O3-YSZ Ceramic Layers Obtained by Atmospheric Plasma Spraying, <i>Crystals</i> , 2023, Vol13Issue4, DOI10.3390/cryst13040614 (30+40x2.7)/10	26.44
1.2.10 Panaghie, C; Zegan, G; Sodor, A; Cimpoesu, N; Lohan, NM; Istrate, B; Roman, AM; Ioanid, N., Analysis of Degradation Products of Biodegradable ZnMgY Alloy, <i>Materials</i> , 2023, Vol16,Issue8, DOI10.3390/ma16083092 (30+40x3.4)/8	13.8
1.2.11 Popa, M; Popa, F; Pricop, B; Cimpoesu, N; Lohan, NM; Kicsi, G; Istrate, B; Bujoreanu, LG., Heat Treatment and Dynamic Mechanical Analysis Strain Sweep Effects on the Phase Structure and Morphology of an Fe-28Mn-6Si-5Cr Shape Memory Alloy, <i>Nanomaterials</i> , 2023, Volume13Issue7 DOI10.3390/nano13071250. (30+40x5.3)/8	20.75
1.2.12 Vâlcea, AE; Grecu, D; Maris, I; Negrea, AD; Cimpoesu, N; Giugea, D; Istrate, B; Munteanu, C; Moga, SG; Anghel, DC; Rizea, AD; Petrescu, MI; Abrudeanu, M ,The Characterization of a Fragment of a Medieval Fresco from Corbii de Piatra Cave Church, <i>APPLIED SCIENCES-BASEL</i> ,2023, Volume13, Issue8, DOI10.3390/app13084933	30.25

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1.2.13 Cocean, A.; Cocean, G.; Diaconu, M.; Garofalide, S.; Husanu, F.; Munteanu, BS; Cimpoesu, N., ; Motrescu, I; Puiu, I; Postolachi, C; Cocean, I; Gurlui, S., Nano-Biocomposite Materials Obtained from Laser Ablation of Hemp Stalks for Medical Applications and Potential Component in New Solar Cells, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2023, Volume24Issue4 DOI10.3390/ijms24043892	10.62
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1.2.14 Iovan, A; Benchea, M; Stoleriu, S; Taraboanta, I; Cimpoesu, N; Nica, I; Andrian, S., Effects of Acidic Challenge on Demineralized Root Surface Treated with Silver Diamine Fluoride and Potassium Iodide, DIAGNOSTICS, 2023, Volume13Issue3, DOI10.3390/diagnostics13030530	21.17
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1.2.15 Axinte, M; Vizureanu, P; Cimpoesu, N; Nejneru, C; Burduhos-Nergis, DP; Epure, EL., Analysis of Physicochemical Properties of W1.8507 Steel Parts with Sharp Edges, Thermochemically Treated by Plasma Nitriding with and without Polarized Screens, Coatings, 2023, Volume13Issue1 DOI10.3390/coatings13010177.	24.86
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1.2.16 Roman, AM; Voiculescu, I; Cimpoesu, R; Istrate, B; Chelariu, R; Cimpoesu, N; Zegan, G; Panaghie, C; Lohan, NM; Axinte, M; Murariu, AM., Microstructure, Shape Memory Effect, Chemical Composition and Corrosion Resistance Performance of Biodegradable FeMnSi-Al Alloy, CRYSTALS, 2023, Volume13, Issue1, DOI10.3390/cryst13010109	27.67
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1.2.17 Roman, A.M.; Geantă, V.; Cimpoesu, R.; Munteanu, C.; Lohan, N.M.; Zegan, G.; Cernei, E.R.; Ioniță, I.; Cimpoesu, N.; Ioanid, N. In-Vitro Analysis of FeMn-Si Smart Biodegradable Alloy. Materials 2022, 15, 568. https://doi.org/10.3390/ma15020568	12.55
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1.2.18 Panaghie, C.; Cimpoesu, N.; Benchea, M.; Roman, A.-M.; Manole, V.; Alexandru, A.; Cimpoesu, R.; Cazacu, M.M.; Wnuk, I.; Zegan, G., "In-vitro" Tests on New Biodegradable Metallic Material Based on ZnMgY, Arch. Metall. Mater. 67 (2022), 2, 587-594, (30+40x0.6)10	27.66
1.2.19 Panaghie, C.; Cimpoesu, R.; Zegan, G.; Roman, A.-M.; Ivanescu, M.C.; Aelenei, A.A.; Benchea, M.; Cimpoesu, N.; Ioanid, N. In Vitro Corrosion Behavior of Zn3Mg0.7Y Biodegradable Alloy in Simulated Body Fluid (SBF). Appl. Sci. 2022, 12, 2727. https://doi.org/10.3390/app12052727 , (30+40x2.7)/9	5.4
1.2.20 Irimiciuc, S.; Zaharia, M.G.; Cimpoesu, R.; Bulai, G.; Gurlui, S.O.; Cimpoesu, N. On the Deposition Process of Ceramic Layer Thin Films for Low-Carbon Steel Pipe Protection. Materials 2022, 15, 4673. https://doi.org/10.3390/ma15134673	15.33
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1.2.21 Bejinariu, C.; Paleu, V.; Stamate, C.V.; Cimpoesu, R.; Coteată, M.; Badarau, G.; Axinte, M.; Istrate, B.; Vasilescu, G.D.; Cimpoesu, N. Microstructural, Corrosion Resistance, and Tribological Properties of Al2O3 Coatings Prepared by Atmospheric Plasma Spraying. Materials 2022, 15, 9013. https://doi.org/10.3390/ma15249013	27.66
(30+40x3.4)/10	
1.2.22 Lutcanu, M.; Istrate, B.; Coteata, M.; Stirbu, I.; Birnoveanu, I.T.; Popa, M; Manole, V; Cimpoesu, N., Analysis Of Electrical Discharge Machining (Edm) Cut Of Ceramic Layers Obtain Through Atmospheric Plasma Spraying (Aps) On Steel Substrate, Acta Technica Napocensis Series-Applied Mathematics Mechanics And Engineering, Vol. 65, Issue 4, Page1209-1214, Special Issue SI, 2022, (30+40x0.3)/8	16.6
1.2.23 Moldovan, E.R.; Doria, CC.; Ocana, JL.; Istrate, B.; Cimpoesu, N.,Baltas, LS; Stanciu, EM.; Croitoru, C; Pascu, A; Munteanu, C; Tierean, MH, Morphological Analysis of Laser Surface Texturing Effect on AISI 430 Stainless Steel, Materials, Vol. 15, Issue 13, Article Number 4580, DOI10.3390/ma15134580, 2022, FI:3.4, (Q2), (30+40x3.4)/11	3.5
1.2.24 Popa, M., Lohan, N.M.; Pricop, B; Cimpoesu, N; Porcescu, M; Comaneci, RI; Cazacu, M; Borza, F; Bujoreanu, LG., Structural-Functional Changes in a Ti50Ni45Cu5 Alloy Caused by Training Procedures Based on Free-Recovery and Work-Generating Shape Memory Effect, Nanomaterials, Volume12, Issue12, Article Number2088, DOI10.3390/nano12122088, 2022, FI:5.3, (Q1). (30+40x5.3)/9	15.1
1.2.25 Cocean, G., Cocean, A., Postolachi, C., Garofalide, S., Bulai, G., Munteanu, BS., Cimpoesu, N., Cocean, I., Gurlui, S., High-Power Laser Deposition of Chitosan Polymers: Medical and Environmental Applications, Polymers, Volume14, Issue8, Article Number1537, DOI10.3390/polym14081537, 2022, FI:5, (Q1). (30+40x5)/9	26.89
2.2.26 Cocean, A., Postolachi, C., Cocean, G.; Bulai, G.; Munteanu, BS.; Cimpoesu, N; Cocean, I.; Gurlui, S., The Origin and Physico-Chemical Properties of Some Unusual Earth Rock Fragments, Applied Science Basel ,Volume 12, Issue 3, Article Number 983, DOI10.3390/app12030983, 2022, FI:2.7, (Q2). (30+40x2.7)/8	25.56
1.2.27 Serbanoiu, AA., Gradinaru, CM.; Muntean, R.; Cimpoesu, N; Serbanoiu, BV., Corn Cob Ash versus Sunflower Stalk Ash, Two Sustainable Raw Materials in an Analysis of Their Effects on the Concrete Properties, Materials, Vol. 15, Issue 3, Article Number 868, DOI10.3390/ma15030868, 2022, FI:3.4, (Q2)30+40x3.4)/5	17.25
1.2.28 Chelariu, RG; Cimpoesu, N; Birnoveanu, TI; Istrate, B; Baciu, C.; Bejinariu, C., Obtaining And Analysis Of A New Aluminium Bronze Material Using Induction Furnace, Archives Of Metallurgy And Materials, Volume67, Issue4, Page1251-1257, DOI10.24425/amm.2022.141049, 2022, FI:0.6, (Q4) (30+40x0.6)/6	33.2
1.2.29 Lutcanu, M; Coteata, M; Bernevig, Ma; Nechifor, CD; Cazacu, MM, Paraschiv, P.; Istrate, B; Badarau, G.; Sandu, IG; Cimpoesu, N., Obtaining And Analyzing The Al2o3-Zro2 Ceramic Layers On Metallic Substrate, Archives Of Metallurgy And Materials, Volume67, Issue 2, Page479-485, DOI10.24425/amm.2022.137780, 2022, FI:0.6, (Q4). (30+40x0.6)/10	9
1.2.30 Roman, AM; Chelariu, R.; Cimpoesu, R.; Stirbu, I.; Ionita, I.; Cazacu, MM.; Priscariu, BA.; Cimpoesu, N; Pietrusiewicz, P; Sodor, A., Analysis Of The Corrosion Rate Of Femn-Si Biodegradable Material, Archives Of Metallurgy And Materials, Volume67, Issue 4, Page1243-1250, DOI10.24425/amm.2022.141048, 2022, FI:0.6, (Q4). (30+40x0.6)/10	5.4
1.2.31 Study of an Ecological Cement-Based Composite with a Sustainable Raw Material, Sunflower Stalk Ash, Serbanoiu, AA.; Gradinaru, CM., Cimpoesu, N., Filipeanu, D., Serbanoiu, BV., Chereches, NC., MATERIALS, Volume14, Issue23, Article Number7177 DOI10.3390/ma14237177, 2021, FI=3,62	5.4
1.2.32 Study of Physico-Chemical Interactions during the Production of Silver Citrate Nanocomposites with Hemp Fiber, Cocean, A., Cocean, I., Cocean, G.; Postolachi, C., Pricop, DA., Munteanu, BS., Cimpoesu, N.,	29.13

Gurlui, S., NANOMATERIALS, Volume11, Issue10, Article Number 2560, DOI10.3390/nano11102560, 2021, FI=5,1	
1.2.33 Effects of Dynamic Loading under Extreme Conditions on Wear Resistance of Ti05Mn120 Castings for Railway Safety Systems, Bulbuc, V., Paleu, V., Pricop, B., Popa, M., Carlescu, V., Cimpoesu, N., Bujoreanu, L.G., JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, Volume30, Issue10, Page7128-7137, DOI10.1007/s11665-021-05837-7, 2021, FI=1.8	29.25
1.2.34 Nanostructured quaternary Ni1-xCuxFe2-yCeyO4 complex system: Cerium content and copper substitution dependence of cation distribution and magnetic-electric properties in spinel ferrites, Roman, T., Gherca, D., Borhan, AI; Grigoras, M., Stoian, G., Lupu, N., Turcan, I., Cimpoesu, N., Istrate, B., Radu, I., Danila, RS., Pui, A., CERAMICS INTERNATIONAL, Volume47, Issue13, Page18177-18187, DOI10.1016/j.ceramint.2021.03.136, 2021, FI=4,5	14.57
1.2.35 Corrosion-Resistance Analysis of HA Layer Deposited through Electrophoresis on Ti4Al4Zr Metallic Substrate, Cimpoesu, R., Vizureanu, P., Stirbu, I., Sodor, A., Zegan, G., Prelipceanu, M.; Cimpoesu, N., Ioanid, N., APPLIED SCIENCES-BASEL, Volume11, Issue 9, Article Number4198, DOI10.3390/app11094198, 2021, FI=2,68	17.5
1.2.36 Laser Induced Method to Produce Curcuminoid-Silanol Thin Films for Transdermal Patches Using Irradiation of Turmeric Target, Cocean, A., Cocean, I., Cimpoesu, N., Cocean, G., Cimpoesu, R., Postolachi, C., Popescu, V., ; Gurlui, S., APPLIED SCIENCES-BASEL, Volume11, Issue9, Article Number4030, DOI10.3390/app11094030, 2021, FI=2,68	17.5
1.2.37 New Zn3Mg-xY Alloys: Characteristics, Microstructural Evolution and Corrosion Behavior, Panaghie, C., Cimpoesu, R., Istrate, B., Cimpoesu, N., Bernevig, MA., Zegan, G., Roman, A.M., Chelariu, R., Sodor, A., MATERIALS, Volume14, Issue10, Article Number2505, DOI10.3390/ma14102505, 2021, FI=3,62	17.5
1.2.38 Finite Element Analysis of Mandibular Anterior Teeth with Healthy, but Reduced Periodontium, Sioustis, IA., Axinte, M., Prelipceanu, M., Martu, A., Kappenberg-Nitescu, DC Teslaru, S., Luchian, I., Solomon, SM., Cimpoesu, N., Martu, S., APPLIED SCIENCES-BASEL, Volume11, Issue9, Article Number3824, DOI10.3390/app11093824, 2021,FI=2,68	19.42
1.2.39 Microstructural, Electrochemical and In Vitro Analysis of Mg-0.5Ca-xGd Biodegradable Alloys, Istrate, B., Munteanu, C., Cimpoesu, R., Cimpoesu, N., Popescu, OD., Vlad, MD., APPLIED SCIENCES-BASEL, Volume11, Issue3, Article Number 981, DOI10.3390/app11030981, 2021, FI=2,68	13.72
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1.2.41 Immersion Behavior of Carbon Steel, Phosphate Carbon Steel and Phosphate and Painted Carbon Steel in Saltwater, Bejinariu, C; Burduhos-Nergis, DP and Cimpoesu, N Jan 2021 MATERIALS 14 (1), FI=3,62	17.15
1.2.42 Azo-polysiloxanes spontaneous surface relief grating by pulsed laser irradiation, Bulai, G., Epure, L., Strat, M., Toma, S., Cimpoesu, N., Gurlui, S., Constantinel, R., Hurdac, N., APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, Volume126, Issue8 Article Number616, DOI10.1007/s00339-020-03800-2, 2020, FI=2,58	58.27
1.2.43 MACROSPHERICAL POROUS METALLOSILICATE MATERIALS: CHARACTERIZATION AND APPLICATIONS, Muresan, EI, Malutan, T., Lutic, D.; Puitel, A Cimpoesu, N., Istrate, B., ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, Volume19, Issue2, Page195-204, 2020, FI=0.9	16.65
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1.2.46 In-Situ Plasma Monitoring during the Pulsed Laser Deposition of Ni60Ti40 Thin Films, Cimpoesu, N.; Gurlui, S; Bulai, G., Cimpoesu, R.; Paun, V.P.; Irimiciuc, S.A.; Agop, M., SYMMETRY-BASEL, Volume12, Issue1, Article Number109, DOI10.3390/sym12010109, 2020, FI=2.71	34.6
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1.2.47 Coman, C.C., Mazurchevici, S.-N., Cimpoesu, N. , ..., Oleksik, V.S., Nedelcu, D., Improved Surface Quality with TiN-Coated Tool, Macromolecular Symposia, , 413(3), 2300203, 2024. 30/6	
1.2.48 Armanu, E.G., Secula, M.S., Cimpoesu, N., Heipieper, H.J., Volf, I., A Biobased Nano/Micro-Structured Material For Microorganisms' Immobilization, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, 24(6.1), pp. 1–10. 30/5	5
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1.2.53 Postolachi, C., Cocean, A., Garofalide, S., Munteanu, B.S., Cocean, G., Cimpoesu, N., Pelin, V., Cocean, I., Gurlui, S., Urban Exotic Pollution: The Harmful Environmental Footprint for Health and Historical Architecture, International Journal of Environmental Research and Public Health, Open Access, Vol. 20, Issue 6, 2023, Article number 4715. 30/9	6
1.2.54 Lohan, N.M., Carcea, I., Pricop, B., Sârghi, M., Cimpoesu, N., Popa, M., Bejinariu, C.,	3.33

	<p>Ciorobatca, A.-E., Burduhos-Nergiş, D.-P., The effect of casting parameters on the microstructure and corrosion behavior of sae 430b alloys for transportation industry, International Journal of Modern Manufacturing Technologies Open Access Volume 15, Issue 2, Pages 111 – 116 2023. 30/9</p> <p>1.2.55 CHELARIU, R. G., BENCHEA, M., CIMPOEŞU, R., RUSU, O., MANOLE, V., BURDUHOS-Negrîs, P. D., CIMPOEŞU, N., BEJINARIU, C., Structural and mechanical characterization of as-cast CuAlBe alloy, Materials Today: Proceedings Volume 72, Pages 594 - 599 January 2023, Conference Proceedings, ISSN 22147853, DOI 10.1016/j.matpr.2022.10.106</p> <p>1.2.56 Luţcanu, M., Munteanu, C., Kicsi, G., Roman, A.-M.; Croitoru, C. G., Prisecariu, B. A., Cazacu, M.M., Ştirbu, I., Chicet, D. L., Cimpoescu, N., Analysis of water jet cutting of metal-ceramic elements made through atmospheric plasma spraying technique, Materials Today: Proceedings, Vol. 72, Pages 550 – 553, 2023, Conference Proceedings, ISSN 22147853, DOI 10.1016/j.matpr.2022.10.037, 30/10</p> <p>1.2.57 Popa, M., Apostol, V. D.; Lohan, N. M.; Cimpoesu, N., Cazacu, M., Borza, F., Bujoreanu, L.G., Investigation of some thermomechanical processing effects on the structure and properties of a TiNiCu shape memory alloy, Materials Today: Proceedings Volume 72, Pages 600 – 606, 2023, ISSN 22147853, DOI: 10.1016/j.matpr.2022.10.225 , 30/7</p>	<p>3.33</p> <p>3.75</p> <p>3</p> <p>4.3</p>
	<p>1.3. Conferinţe invitate/ lucrări de sinteză prezentate la manifestări organizate sub egide ştiinţifice recunoscute, lucrări comunicate</p> <p>Realizări:</p> <p>1.3.1 M. LUŢCANU, C. CROITORU, I. IONIŢĂ and N. CIMPOEŞU, Ceramic Coatings as Thermal Barrier for Metallic Substrate, BIPI, Materials and Engineering Section, Volume 69 (73), Number 1-4, 2023, pg. 9-10.</p> <p>1.3.2 M. G. HUŢANU, C. NEJNERU and N. CIMPOEŞU, Aspects Regarding the Characterization of the Corrosion-Wear Systems of the Mechanical Actuation Elements Used for the Circulation of Wastewater, BIPI, Materials and Engineering Section, Volume 69 (73), Number 1-4, 2023, pg. 17-28.</p> <p>1.3.3 C. PANAGHIE, V. MANOLE, A. ALEXANDRU and N. CIMPOEŞU, Biodegradable Zinc-Based Alloys with High Potential for Medical Applications, BIPI, Materials and Engineering Section, Vol. 69 (73), Number 1-4, 2023, pg. 41-50.</p> <p>1.3.4 A.M. ROMAN and N. CIMPOEŞU, Analysis of Chemical Reactions Occurring on Contact Between a Biodegradable Fe-Mn Alloy and an Electrolyte Solution, BIPI, Materials and Engineering Section, Vol. 69 (73), Number 1-4, 2023, pg. 65-72.</p> <p>1.3.5 G.D. TANASIEVICI, A.M. CAZAC, N. CIMPOEŞU and C. BEJINARIU, Characteristics of Stainless Steel Used for Personal Protective Equipment in the Food Industry, BIPI, Materials and Engineering Section, Vol. 69 (73), Number 1-4, 2023, pg. 165-172.</p> <p>1.3.6 C. OSOEANU, D. L. CHICET, N. CIMPOEŞU, G. BĂDĂRĂU and C. BEJINARIU, Investigation on Brake Pad Wear Emissions, BIPI, Materials and Engineering Section, Vol. 69 (73), Number 1-4, 2023, pg. 173-184.</p> <p>1.3.7 G.R. CHELARIU, G. BĂDĂRĂU, N. CIMPOEŞU and C. BEJINARIU, A Concise Analysis of the Regulations on the Organisation of Intervention and Rescue Activities at Industrial Establishments with Potential Danger of Toxic, Explosive, Flammable Gas Emissions, BIPI, Materials and Engineering Section, Vol. 69 (73), Number 1-4, 2023, pg. 211-220.</p> <p>1.3.8 Electrochemical evaluation of Mg-0.5Ca-1Zn and Mg-0.5Ca-2Zn biodegradable alloys, R. Cimpoesu, B. Istrate, C. Munteanu, N. Cimpoescu, The 11th IEEE International Conference on E-Health and Bioengineering - EHB 2023, 10/4=2,5</p> <p>1.3.9. A.T. Şutic, C. Panaghie, V. Paleu, R. Cimpoescu, A.M. Roman, M. Coteaţă, L. Andruşcă, G. Bădărău, P. Paraschiv, N. Cimpoescu, Wear resistance of as-cast ZnMg-Y biodegradable alloy, Innovative Manufacturing Engineering & Energy International Conference, 23-25 october, 2024, Athens, online presentation, (IMANEE 2024), 15 /na=15/10=1,5</p> <p>1.3.10. Şutic AT, Bădărău G, Chelariu R, Cimpoescu R, Roman AM, Bernevig MA, Ionuţ Ştirbu I, Cimpoescu N, Impact of Alloying Elements on the corrosion Resistance of a Novel Experimental Biodegradable ZnMgTi Alloy, 10th International Conference on Materials Science and Technologies – RoMat 2024, National University of Science and Technology Politehnica Bucharest (Romania) from November 14th to November 15th, 2024, in the framework of MaterialFEST 2024 (ROMAT 2024), 10/na=10/8=1,25</p> <p>1.3.11. Cimpoescu R, Bădărău G, Istrate B, Chelariu R, Roman AM, Manole V, An Evaluation of the in Vitro Degradation Rates of a Zn-Based Biodegradable Alloy, 10th International Conference on Materials Science and Technologies – RoMat 2024, National University of Science and Technology Politehnica Bucharest (Romania) from November 14th to November 15th, 2024, in the framework of MaterialFEST 2024, prezentare orala (ROMAT 2024), 15 /na=15/6=2,5</p> <p>1.3.12. 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	<p>1.3.16 R.G. CHELARIU, R. CIMPOESU, M. BENCHEA, D.P. BURDUHOS NERGIS, B. ISTRATE, A.M. CAZAC, N. CIMPOESU, GH. BADARAU, C. BEJINARIU, A.M. JURCA, C.M. POPA, Evaluation of new non-sparking material based on CuAlBe, 13th International Conference on Materials Science & Engineering, 13-16 March, Braşov, România, prezentare orala (BraMat 2024) 15/11=1,36</p> <p>1.3.17 R. CIMPOEŞUA, B. ISTRATE*B, C. MUNTEANUB, A. DE BONISC, J.V. RAUD, AND N. CIMPOEŞU, The effect of Sr-Cu-TCP layers deposited by PLD on corrosion resistance of biodegradable mg-based alloys Biomaterials and Novel Technologies for Healthcare, 4th International Biennial Conference BioMaH, Roma, Italia în perioada 15-18 octombrie 2024, cu participarea tip poster , 10/6=1,66</p>	1.36 1.66
	<p>1.4. Lucrări publicate în volumele conferinţelor Realizări: 1.4.1. AM Roman, G Bădărău, B Istrate, N Cimpoescu, R Chelariu, M Axinte, A Alexandru, B Pricop, R Cimpoescu, M-A Bernevig, In vitro analysis of antibacterial FeMnSi-Cu biodegradable alloy in Simulated Body Fluid, The 1st International Online Conference on Bioengineering Bioengineering in a Generative AI World, Part of the 1st International Online Conference on Bioengineering series, session Biomedical Biomaterials, Article ID sciforum-100931, 16–18 Oct 2024 (IOCFE 2024), https://sciforum.net/paper/view/18731, Google scholar, 30/na=30/10=3 1.4.2. Roman A.M., Bernevig M.A., Badarau G., Cimpoesu R., Bujoreanu L.G., Cimpoesu N., Investigation of the corrosion mechanism of bifunctional FeMnSi-based alloys for medical applications, Published: 08 July 2024 by MDPI in The 1st International Online Conference on Functional Biomaterials, session Biomaterials for Tissue Engineering, Article ID sciforum-090143, 10–12 July 2024 (IOCFB 2024), https://sciforum.net/paper/view/18133 . 30/na=30/6=5 1.4.3 Diana-Petronela Burduhos-Nergis, Petru Lazăr, Nicanor Cimpoescu And Costică Bejinariu, The Importance of Surface Activation in the Phosphating Chemical Conversion Process, BIPI, SIM , 1-9, 2024, 30/4 1.4.4. Alexandra-Tamara Şutic, Romeu Chelariu, Ramona Cimpoescu, Mihai Axinte, Ana-Maria Roman, Gheorghe Bădărău And Nicanor Cimpoescu, Biodegradable Materials Based on Zn-Mg-Ti in Medicine: A Promising Solution for Sustainable Medical Applications, BIPI, SIM , 20-31, 2024, 30/7 1.4.5 Ştefana Dochita-Agop, Ioan-Gabriel Sandu, Nicanor Cimpoescu, Alin-Marian Cazac and Costică Bejinariu, Modern Methods of Severe Plastic Deformation: A Short Review BIPI, SIM , 105-113, 2024, 30/5</p>	3 5 7.5 4.3 6
	<p>1.5. Brevete acordate, produse omologate Realizări: 1.5.1 Doroftei, S. Stanciu, N. Cimpoesu, <i>Walking robot with unconventional drive</i>, Patent Number(s): RO127815-A2. 1.5.2 S. Stanciu, L.G. Bujoreanu, N. Cimpoesu, <i>Copper shape memory alloy preparation method, involves smelting alloy in medium frequency oven by melting in primary stage and adding copper and nickel, flux, zinc and aluminum</i>, Patent Number(s): RO126210-A2 ; RO126210-B1.</p>	20 20
	<p>1.6. Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie Realizări: 1.6.1. Director al proiectului CeLaTeBa : Ceramic layers as thermal barriers for aircraft turbine engines, SURPF2301300009, European Union's Horizon 2020 Research and Innovation Programme under grant agreement No 823802. 20x 75000/10000..... Membru: 1.6.2. Proiect ROSE SGCU PV, AG nr. 341/SGU/PV/III din 27.07.2020, Valoare totala: 551.824,5 RON, valoarea pentru 2024 – 137.522,22 lei, Număr membri: 22 1.6.3. Proiect ROSE SGCU-PV, AG nr. 118 / 07.05.2019, Valoare totala: 646.478,11 RON, valoarea pentru 2024 – 132.899,55 lei , Număr membri: 22 1.6.4 TechGo 3, "Dezvoltare instituţională pentru consolidarea angajabilitatii absolvenţilor TUIASI – TechGo3" CNFIS-FDI-2024-F-0036, 265000 ron, 6 membri</p>	150 9.1 9.1 66.25
	<p>1.7. Proiecte/ Contracte/ Granturi de cercetare-dezvoltare încheiate cu institute de cercetare, companii, regii, societăţi comerciale Realizări: 1.7.1. 1.7.2.</p>	
	<p>1.8. Citări în reviste cotate ISI sau indexate în baze de date internaţionale (BDI) Realizări: 1.8.1. Citări ISI: 837..... 1.8.2. . Citări în reviste conferintelor - 114..... 1.8.3. Citări în reviste BDI: 68.....</p>	4185 342 68
Total punctaj Criteriu 1		6382.46
2. Recunoaştere a naţională şi internaţională (minimum: 15 puncte)	<p>2.1. Profesor invitat pentru prelegeri la univ. de prestigiu Realizări: 2.1.1. 2.1.2.</p> <p>2.2. Membru în academii (Academia Română, Academia de Ştiinţe Tehnice, Academia de Ştiinţe Agricole şi Silvici, Academia Oamenilor de Ştiinţă etc.) Realizări:</p>	

2.2.1.	
2.2.2.	
2.3. Doctor Honoris Causa Realizări: 2.3.1. 2.3.2.	
2.4. Membru în societăți științifice și profesionale (AGIR, asociațiile absolvenților etc.) Realizări: 2.4.1. Membru ATTR 2.4.2 Membru SMER (Societatea de microscopie electronică din România) 2.4.3. Membru EMS (European Microscopy Society)	5 5 10
2.5. Membru în comisii de doctorat Realizări: 2.5.1. .Teza de doctorat susținută de Patrascu Ion la UNSTPB 2.5.2. Teza de doctorat susținută de Coman Tudor Adrian la UNSTPB 2.5.3 Teza de doctorat susținută de Baci Florentina la UNSTPB 2.5.3. .Raport de cercetare 1x10	5 5 5 10
2.6. Membru în colective de redacție ale revistelor Realizări: 2.6.1. International Journal of Materials Science and Applications..... 2.6.2. Buletinul Institutului Iasi, MATERIALS SCIENCE AND ENGINEERING Section 2.6.3 Applied Science Basel	5 5 20
2.7. Membru în comitete științifice naționale/ internaționale/ de program (la congrese, conferințe etc.) Realizări: 2.7.1. 55th IOC held in October 15 – 17, 2024 in Kladovo, Serbia..... 2.7.2.	10
2.8. Membru în echipe de expertizare / evaluare a cercetării științifice (proiecte CNCS, PNCDI II, FP7, Phare; centre de cercetare etc.) Realizări: 2.8.1 Recenzie proiect Poland : Preludium, 23, Narodowe Centrum Nauki , mgr Yuliia Didovets, Jagiellonian University in Kraków 2.8.2. .Evaluare proiecte ARUT x1 (Universitatea Tehnică din Cluj)..	10 5
2.9. Membru în echipe de expertizare (evaluare) a procesului educațional (ARACIS, EUA etc.) Realizări: 2.9.1. 2.9.2.	
2.10. Membru în consilii naționale de specialitate Realizări: 2.10.1. 2.10.2.	
2.11. Organizator de manifestări științifice naționale / internaționale / sesiuni invitate Realizări: 2.11.1. . Charmain, IMANE 2023; On line, Iasi; Romania. 2.11.2.	15
2.12. Referent științific / expert național și internațional (pentru reviste, congrese etc.) Realizări: 2.12.1. Advances in Materials Science and Engineeringx1 2.12.2. Applied Sciences x4 2.12.3 Coatingsx3 2.12.4 Crystals x1 2.12.5 Esaform x2 2.12.6 Frontiers Met and Alloys x 1 2.12.7 CMDx1 2.12.8 Materialsx5 2.12.9 IJMMT x1 2.12.10 IRJMT x1 2.12.11 Metals x8 2.12.12 Nanomaterials x2 2.12.13 Materials_Chemistry_Physicsx1 2.12.14 Tribology in industry x1 2.12.15 Entropy x1 ; 2.12.16 Nanox1 , 2.12.17 BIPI CMMix16	10 40 30 10 20 10 10 50 10 10 80 20 10 10 10 10 48
2.13. Cercetător invitat pentru activități de cercetare în universități/firme de prestigiu 2.13.1. Vizita firma BMT Aerospace 09.04.2024 2.13.2. Vizita firma National paints Factory 20.05.2024 2.13.3. Vizita firma Menekes 10.06.2024	5 5 5
2.14. Cadru didactic invitat în programe ERASMUS (prelegeri) 2.14.1. 2.14.2.	
2.15. Cadru didactic care gestioneaza acorduri bilaterale ERASMUS 2.15.1. Acord bilaterale ERASMUS cu Univ. Yildiz, Instambul, Turcia 2.15.2. Acord cu Univ. din Oviedo, Spain 2.15.3 Acord cu Universitatea din Chieti, Pescara, Italy	5 5 5 5

	2.15.4 Acord cu Univ. Normandie, Rouen, Franta	
	2.15.5 Acord cu AMU - Faculté des Sciences and/or Polytech Marseille, Franta	
	2.16. Premii Realizări: 2.16.1. 2.16.2.	
Total punctaj Criteriu 2		543
3. Activitatea în Școala Doctorală (minimum: 10 puncte)	3.1. Susținere prelegeri în cadrul Școlii Doctorale TUIASI Realizări: 3.1.1. 3.1.2.	
	3.2. Activitate în comisii la nivelul SD (elaborare proceduri, conferința Școlii doctorale etc) Realizări: 3.2.1. 3.2.2.	
	3.3. Conducere lucrări de doctorat ((inclusiv cotutelă, membri în echipa de îndrumare) Realizări: 3.3.1. Coordonare lucrări de doctorat: 6+1 (cotutela) 3.3.2. Membru în echipa de îndrumare : 3 (UNSTPB)+3(TUIASI)	105 90
	3.4. Organizarea de activități de promovare a studiilor doctorale Realizări: 3.4.1. .Membru în comisia de admitere la doctorat 3.4.2. . Activitate în comisii la nivel de universitate: Membru in CMT (Centrul de Management al Talentelor) pentru doctoranzi 3.4.3 Activitate in comisii la nivel de universitate: Membru în echipa de lucru WP6 pentru proiectul Ingenium	5 5 5
Total punctaj Criteriu 3		210
Total punctaj Criterii 1-3		7135.46
4. Evaluarea de către Directorul CCPD (0-50 puncte)	Justificări: • Participă la activitățile școlii doctorale (3 lucrări la CSD); • Participă la activitățile școlii doctorale (întîlniri de lucru, promovare, alegeri); •; •; •	50
Total general		7185.46

Data: _____

	Funcție didactică/ Nume și prenume	Semnătura
Director CCPD	Prof. univ. dr. ing. Leandru-Gheorghe BUJOREANU	
Conducător de doctorat evaluat	Prof. univ. dr. ing. Nicanor CIMPOEȘU	