

Listă de lucrări 1999 – 2025
Ș.l.dr.ing. Ruxandra Elena DUMITRESCU (fostă Păunescu)

Tipul activităților	Categorii și restricții	Subcategorii	Publicații
1.1. Cărți și capitole în cărți de specialitate în edituri recunoscute	1.1.1. Cărți/capitole ca autor	1.1.1.2. Naționale	Gabriel Gherghișor, Ruxandra Păunescu , Sticle metalice, Ed. Printech, 2005
			Daniel Bunea, Ion Pencea, Vasile-Iulian Antoniac, Dan Dragulin, Octavian Trante, Ruxandra Păunescu , Știința materialelor – culegere de probleme, Ed. Printech, 1999
1.2. Suport didactic	1.2.1. Manuale didactice, monografii, inclusiv electronice		1) R. Dumitrescu , Curs “Știința și ingineria materialelor” (format electronic) anul I, seriile B+C, Transporturi, 120 pag., https://archive.curs.upb.ro/2023/course/view.php?id=6242 2) R. Dumitrescu , Curs “Materiale compozite” (format electronic) anul IV C, SIM, https://archive.curs.upb.ro/2023/course/view.php?id=14410
	1.2.2. Îndrumătoare de laborator/ aplicații		1) I.A. Gherghescu, R.E. Dumitrescu , A. Robu, O. Trante, S. Ciucă – <i>Tratamente termice – lucrări de laborator</i> , Ed. Printech, 2024

2. Activitatea de cercetare (A2)

Tipul activităților	Categorii și restricții	Subcategorii	Publicații
2.1. Articole în reviste cotate ISI Thomson Reuters - Web of Science Core Collection și în volume indexate ISI proceedings - Web of Science, în specificul postului scos la concurs			1. Hassan Nasri NASRABADI, Alina ROBU, Robert CIOCOIU, Iulian ANTONIAC, Ruxandra DUMITRESCU , Daniela Alina NECSULESCU, Sorin CIUCA, Anca Maria FRATILA, EVALUATION OF SURFACE PROPERTIES IN 316L STAINLESS STEEL ORTHOPEDIC IMPLANTS, U.P.B. Sci. Bull., Series B, Vol. 87, Iss. 2, 2025;
			2. M.C. Pantilimon, A.C. Berbecaru, G. Coman, M.G. Sohaciu, R.E. Dumitrescu , S. Ciucă, I.A. Gherghescu, C. Predescu, <i>Preliminary Structures Assessment of Some TRIP Steels</i> , Arch. Metall. Mater. , 68 (2023), 2, 491-498, DOI: https://doi.org/10.24425/amm.2023.142427 ; WOS:001101214400011 (FI 2023 = 0,71)
			3. Nicolae, M.; Sohaciu, M.G.; Dumitrescu, R. ; Ciucă, S.; Nicolae, A. <i>Vectors of Sustainable Development and Global Knowledge in the Metallic Materials Industry in Romania. Sustainability</i> 2022 , 14, 9911, WOS: 000845305400001 (FI 2022=3,3)
			4. S. Ciucă, M.O. Cojocaru, M.G. Sohaciu, G.G. Grigorescu, R.E. Dumitrescu , I.A. Gherghescu*, <i>Influence of Working Atmosphere Composition on Plasma Nitrided Layer Constitution</i> , U.P.B. Sci. Bull., Series B , Vol. 84, Iss. 1, 2022, pp. 147 – 164, WOS:000813376200011, (FI 2022 =0)
			5. M.C. Pantilimon, A.C. Berbecaru, I. A. Gherghescu*, G. Coman, S. Ciucă*, A. Grecu, M.G. Sohaciu, R.E. Dumitrescu , C. Predescu, <i>Comparative Evaluation of the TRIP Effect in Steels with Different Contents of Mn and Al</i> , METALS 2022 , 12(3), 443;

		https://doi.org/10.3390/met12030443 , WOS: 000774103200001,(FI 2022= 2,695) 6. C.Ş. Grădinaru, G. Coman, S. Ciucă, M. G. Sohaciu, A. C. Berbecaru, A. Grecu, R. E. Dumitrescu, I. A. Gherghescu, C. Predescu, <i>Research On Corrosion Degradation Process Of Some Thermal Power Plants Steam Boiler Pipes</i>, U.P.B. Sci. Bull., Series B, Vol. 83, Iss. 3, 2021, pp. 231-244., WOS: 000692192600019, (FI 2021 = 0) 7. A. Nicolae, M. G. Sohaciu, I. Csáki , S. Ciucă, M. Nicolae, R.E. Dumitrescu, <i>Information About The Engineering Of Sustainable And Durable Materials (E.S.D.M)</i>, U.P.B. Sci. Bull., Series B, Vol. 82, Iss. 3, 2020, pp. 211-220. WOS: 000610098500018; punctaj = 0 8. R.E. Dumitrescu, I.A. Gherghescu, S. Ciucă, M. Ciurdas, D.A. Necşulescu, I.M. Vasile, <i>Microstructural Aspects of Some Magnesium Matrix Composites Reinforced with Amorphous/Nanocrystalline Ni-Ti Particulates</i>, REV CHIM-BUCHAREST, Volume 70, Issue 8, 2019, pp. 2903-2907; WOS: 000489685600042, (FI 2019= 1,755) 9. C. Predescu, A.C. Berbecaru, G. Coman, M.G. Sohaciu, A.M. Predescu, E. Matei, R.E. Dumitrescu, S. Ciuca, I.A. Gherghescu, <i>Corrosion Resistance Evaluation of Some Stainless Steels Used in Manufacture of Hydraulic Turbine Runner Blades</i>, REV CHIM-BUCHAREST, Volume 70, Issue 7, 2019, pp. 2491-2496; WOS:000485843500040, (FI 2019= 1,755) 10. G.Coman, M. C. Pantilimon, M. G. Sohaciu, S. Ciucă, M.G. Anton, C. Predescu, R.E. Dumitrescu, A.C. Berbecaru, I.A. Gherghescu, <i>Cavitation Erosion Resistance Tests Performed on Some Stainless Steels for Turbine Runner Blades</i>, REV CHIM - BUCHAREST, Volume 70, No. 5, 2019, pp. 1655 – 1663, ISSN: 0034-7752; WOS:000470086400028, (FI 2019= 1,755) 11. A. C. Berbecaru, G. Coman, C. S. Grădinaru, M. G. Sohaciu, C. Predescu, R. E. Dumitrescu, S. Ciucă, I.A. Gherghescu, <i>Microstructural Characterization Of Some Turbine Blade Martensitic Stainless Steels</i>, REV CHIM - BUCHAREST, Volume 70, No. 4, 2019, pp. 1132 – 1139, ISSN: 0034-7752 ;WOS: 000469387200006; (FI 2019 = 1,755) 12. Mariana Ciurdas, Daniela Alina Necşulescu, Mircea Cristian Pantilimon, Ion Mihai Vasile, Magdalena Galatanu, George - Daniel Ruiiu, Ruxandra Elena Dumitrescu, <i>Production and Structural Characterization of Some Magnesium Matrix Composites Reinforced with Amorphous/Nanocrystalline NiTi Particulates</i>, REV CHIM-BUCHAREST, Volume 69, No. 12, 2018, pp. 3503-3507, W OS: 000458533800035, (FI 2018 = 1,605) 13. M. Ciurdaş, I.A. Gherghescu, S. Ciucă, A. D. Necşulescu, C. Cotruţ, R.E. Dumitrescu, <i>Heat Treatment Influence on the Corrosion Resistance of a Cu-Al-Fe-Mn Bronze</i>, REV CHIM-BUCHAREST, Volume 69, No. 5, 2018, pp. 1055 - 1059, ISSN: 0034-7752, WOS:000434954100005, (FI 2018 = 1,605) 14. I.A. Gherghescu, D. Ioniţă, S. Ciucă, R. E. Dumitrescu, <i>Thermal Parameters Influence Assessed by Electrochemical Impedance Spectroscopy on a Ni₅₀Ti₄₈Nb₂ Shape Memory Alloy</i>, REV CHIM-BUCHAREST, Volume 69, No. 1, 2018, pp. 86 - 90, ISSN: 0034-7752, WOS:000425369600017; (FI 2018 = 1,605) 15. I.A. Gherghescu, S. Ciucă, G.L. Jicmon, R. E. Dumitrescu, M. Brânzei, <i>Thermal Cycling Influence on the Transformation Characteristics of a Ni₅₀Ti₄₈Nb₂ Shape Memory Alloy</i>, REV CHIM-BUCHAREST, Volume 68, No. 5 , 2017, pp. 991-996, ISSN: 0034-7752, WOS:000405816300021; (FI 2017 = 1,412)
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			16. R. Păunescu, I.Gherghescu, <i>Structural Relevant Aspects through Scanning Electron Microscopy (SEM) of Some Thermal Barrier Ceramic Coatings Deposited on Copper Support</i>, Revista Metalurgia International, VOL. XV, no. 7, 2010, Pp:12-18, ISSN 1582-2214, WOS:000277598700002; (FI 2010 = 0,173) 17. M. Vasilescu, R. Păunescu, I.Gherghescu, S. Ciucă, <i>Comparative evaluation of ceramic and metallic thermal barrier layers</i>, Revista Metalurgia International, VOL. XIV, no. 7, 2009, Pages: 27 – 29, WOS:000265002800006; (FI 2009 = 0,173) 18. Coșmeleață, G., Gherghescu, I., Păunescu, R., Vasilescu, M. - <i>Influence of thermal barrier type ceramic layer's chemical composition and quick thermal shock on their porosity and adherence</i>, Revista Metalurgia International, VOL XIII, Special Issue no.3, 2008, Pages: 73-75, WOS:000263117300014; (FI 2008= 0,173)
2.2. Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale	Reviste sau volume indexate în alte baze de date internaționale [BDI]	ULRICHS WEB EBSCO SCOPUS SCOPUS EBSCO EBSCO	1. R. Dumitrescu, I. Gherghescu, S. Ciucă, <i>Thermal Shock Influence on some Abrasive Wear Resistant Nickel and Cobalt Complex Alloy's Microstructure and Properties</i>, ROMAT 2014, Advanced Materials Research, Vol. 1114 (2015), title Materials Research and Application, pp.214 – 218, ISSN: 1662-8985, Trans Tech Publications, Switzerland, DOI: 10.4028/www.scientific.net/AMR.1114.214, 2. Mariana Ciurdaș, Ruxandra Elena Dumitrescu, Gabriela Popescu, Daniela Alina Necșulescu, Andra Mihaela Predescu, Cristian Mircea Pantilimon, Lucian Rosu, <i>Nanocrystalline and Amorphous NiTi Compound Obtained by Mechanical Alloying for Metallic Matrix Reinforcement</i>, International Journal of Modern Manufacturing Technologies ISSN 2067–3604, Vol. X, No. 2 / 2018, pp. 51-57 3. Mariana Ciurdaș, Daniela Alina Necșulescu, Ioan-Nicolae Panait, Ruxandra Elena Dumitrescu, Robert Alexander Stephan, <i>Experimental Researches Regarding the Processing of a 3003 Rolled Alloys</i>, U.P.B. Sci. Bull., Series B, Vol. 78, Iss. 4, 2016, pp. 193-202 4. R. Păunescu, I. Gherghescu, Microstructural investigation of a complex cobalt based thermal barrier coating tested by quick thermal shock, U.P.B. Scientific Bulletin, Series B: Chemistry and Materials Science, Vol.74, nr.1/2012, Pages:225-234, ISSN 1454-2331. 5. M. Vasilescu, R. Păunescu, I. Gherghescu, <i>Quantitative analysis of some layers deposited on copper support</i>, Revista Metalurgia, nr 11, 2009, pp.5 – 9, ISSN 0461-9579, BDI: EBSCO, http://www.ebscohost.com/titleLists/ii-coverage.pdf 6. R. Păunescu, I. Gherghescu, M.Vasilescu, <i>Testing of metallic coatings deposited by vacuum electric welding for thermal barrier layers applications</i>, Revista Metalurgia, nr. 1, 2009, pp.25 – 28, BDI: EBSCO, http://www.ebscohost.com/titleLists/ii-coverage.pdf 7. I. Gherghescu, R. Păunescu, M.Vasilescu <i>Structural aspects revealed by scanning electron microscopy (SEM) of some complex cobalt and nickel based alloys deposited on copper support by WIG technique</i>, Revista Metalurgia, nr 1, 2009, Pag. 29 – 36, ISSN 0461-9579, BDI: EBSCO, http://www.ebscohost.com/titleLists/ii-coverage.pdf 8. R. Păunescu, G. Gherghișor, <i>The contribution of the mathematical modelling of hot and cold rolling and of cooling regime to the improvement of the plasticity characteristics of low-carbon steel sheets</i>, Buletinul Institutului Politehnic din Iași. Secția IX, Știința și ingineria materialelor, 2005, ISSN: 1453-1690

		SCOPUS	9. Ruxandra Elena Dumitrescu, Bogdan-Sorin Ciuca, Catalin Molagic, Mihai Tarcolea, <i>Plasma nitriding influence on biocompatibility properties of austenitic stainless steel 316AISI</i> , UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, 2001 (0.3 Q4)
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