

Listă de lucrări 1990 – 2025

Conf. Dr. Ing. Ioana Arina GHERGHESCU

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	1) I. A. Gherghescu – <i>Alliages à mémoire de forme NiTi – une nouvelle approche</i> , Ed. PRINTECH, 2023 (107 pagini), ISBN 978-606-23-1439-2.
			2) M. Isac, I. Gherghescu , S. Ciucă - <i>Tratamente termice și termochimice</i> – Ed. Didactică și Pedagogică, 1996 (260 pagini), ISBN 973-30-5882-3.
			3) T. Dulămiță, I. Gherghescu - <i>Oțeluri de scule- Proprietăți, tratamente termice, utilizări</i> - Ed. Tehnică, 1990 (296 pagini), ISBN 973-31-0178-8
1.2. Suport didactic	1.2.1. Manuale didactice, monografii, inclusiv electronice		1) I. Gherghescu , Curs “ <i>Science Des Materiaux</i> ” (format electronic) anul I Mecanică, FILS, Franceză - 136 pag., https://curs.upb.ro/2022/course/view.php?id=1663
			2) I. Gherghescu , Curs “ <i>Materials Science</i> ” (format electronic) anul I Mecanică, FILS, Engleză – 135 pag., https://curs.upb.ro/2022/course/view.php?id=1365
			3) I. Gherghescu , Curs “ <i>Ecotehnologii durabile de tratamente termice</i> ” – Master anul II D -117 pag., https://curs.upb.ro/2022/course/view.php?id=9761
			4) I. Gherghescu , Curs “ <i>Procedee neconvenționale de tratamente termice</i> ”, anul IV, Știința Materialelor, SIM - 65 pag., https://curs.upb.ro/2022/course/view.php?id=9476
			5) M. Isac, I. Gherghescu – <i>Proiectarea proceselor tehnologice de tratament termic</i> – Ed. U.P.B., 1994 (202 pagini) ;
	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) Vasilescu M., Gherghișor G., Gherghescu I. ș.a. - <i>Îndrumar de laborator pentru tratamente termice</i> , Ed. Politehnica Press, 2009, București (235 pagini), ISBN 978-606-515-057-7
			3) Al. Gheorghiu – Dobre, S. Ciucă, I. Gherghescu - <i>Metallurgie Physique – travaux pratiques</i> – Ed. Printech, București, 2002 (61 pagini) ISBN 973-652-552-X
			4) Al. Gheorghiu – Dobre, I. Gherghescu – <i>Metallographie appliquee – Micrographies et comptes-rendus des travaux pratiques</i> - Ed. U.P.B., 1995 (60 pagini)
			5) M. Isac, I. Gherghescu - <i>Date utile la proiectarea proceselor tehnologice de tratament termic</i> - Ed. U.P.B., 1994 (68 pagini)

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. A. C. Berbecaru, G. Coman, S. Ciucă, A. Grecu, I. A. Gherghescu , M. Dobre, M. Sohaciu, E. Matei, A. M. Predescu, I.-A. Diaconu, C. Predescu, <i>Characterization Of Some Rhenium Inconel Superalloys Made In A Vacuum Induction Furnace And Cast In Argon Atmosphere</i> , U.P.B. Sci. Bull., Series B , Vol. 86, Iss. 2, 2024
			2. A. Grecu, A. C. Berbecaru, G. Coman, S. Ciucă, E. Matei, M. G. Sohaciu, I. A. Gherghescu , A. M. Predescu, C. Predescu, <i>Assessment of Premature Degradation of a Gas Injection Pipeline Due to Hydrogen Released by the Benzene Hydrofining Equipment</i> , U.P.B. Sci. Bull., Series B , Vol. 85, Iss. 2, 2023, pp. 257 – 274, WOS: 001015437100021
			3. A. Grecu, G. Coman, A. Berbecaru, E. Matei, I. Gherghescu , A. Predescu, S. Ciucă, C. Predescu, <i>Influence of Mechanical Characteristics on the Operating Behavior of Compressors Intake and Exhaust Valves Made of Inconel X750 Superalloy</i> , U.P.B. Sci. Bull., Series B , Vol. 85, Iss. 1, 2023, pp. 177 -188, WOS: 000957802300014
			4. 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)
			5. 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)
			6. 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> , METALS2022 , 12(3), 443; https://doi.org/10.3390/met12030443 , WOS: 000774103200001,(FI 2022= 2,695)
			7. A.C. Berbecaru, G. Coman, S. Ciucă, I.A. Gherghescu , M.G. Sohaciu, C. Grădinaru, C. Predescu, <i>Research on the Degradation Process of Railway Rails Due to Lifespan Exceeding</i> , Arch. Metall. Mater. 67 (2022), 2, 535-540, DOI: https://doi.org/10.24425/amm.2022.137787 , WOS: 000813491300004, (FI 2022 = 0,767)
			8. M.O. Cojocaru, M. Branzei, S. Ciuca, I.A. Gherghescu , M. Ion, L.N. Drugă, C.M. Cotrut, <i>Sulfonitrocarburizing of High-Speed Steel Cutting Tools: Kinetics and Performances</i> , MATERIALS2021 , 14(24), 7779; https://doi.org/10.3390/ma14247779 , WOS: 000738311100001, (FI 2021= 3,748)
			9. C.Ș. 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); Pe Clarivate se află la profilul Gherghescu Ioana ANNA ! – dovada numelui corect se află în articolul anexat.
			10. A. Corăbieru, Șt. Velicu, P. Corăbieru, M. G. Sohaciu, I. A. Gherghescu , <i>Research on Parts Surfaces Chemical Composition Changes in Liquid And Solid State</i> , U.P.B. Sci. Bull. , Series B, Vol. 83, Iss. 1, 2021, pp., WOS: 000627764100024, (FI 2021 = 0)

 			11. A. Corăbieru, P. Corăbieru, Șt. Velicu, I.A. Gherghescu, M.G. Sohaciu, <i>Durability Increase by Polyester Coating of Some Quaternary Copper-Based Alloys Parts</i>, SUSTAINABILITY 2020, 12 (8), 3485; doi: https://doi.org/10.3390/su12083485, WOS:000535598700418, Q2 în 2019, (FI 2019 = 2.576) 12. R.E. Dumitrescu, I.A. Gherghescu, S. Ciucă, M. Ciurdas, D.A. Necsulescu, 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) 13. 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) 14. 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) 15. A. C. Berbecaru, G. Coman, C. S. Gradinaru, 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) 16. M. Ciurdaș, I.A. Gherghescu, S. Ciucă, A. D. Necșulescu, C. Cotruț, 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) 17. I.A. Gherghescu, D. Ioniță, 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) 18. 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) 19. I.A. Gherghescu, G.L. Jicmon, C. Cotruț, M. Brânzei, A.C.Berbecaru, A.M.Predescu, S. Ciucă, <i>Influence of Aging Parameters on the Corrosion Resistance of a Biocompatible Ni_{50.6}Ti_{49.4} Shape Memory Alloy</i>, REV CHIM-BUCHAREST, Volume 67, No.9, 2016, pp.1734-1738, ISSN: 0034-7752, WOS:000385266600018, (FI 2016 = 1,232) 20. M. Brânzei, I.A. Gherghescu, S. Ciucă, <i>Solder Joints Quality Assessment as Function of VPS Process Parameters</i>, REV CHIM-BUCHAREST, Volume 67, No. 6, 2016, pp.1068-1072, ISSN: 0034-7752, WOS:000385510300008; (FI 2016 = 1,232) 21. M. Sohaciu, S. Ciucă, D. Savastu, G. Coman, A. Predescu, A. Berbecaru, C. Cotruț, E. Matei, I.A. Gherghescu, C. Predescu, <i>Influence of turbine blades fabrication conditions on their lifetime</i>, Optoelectronics and Advanced Materials – Rapid Communications, Vol. 10,
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			Iss. 3-4, March - April 2016, pp. 257 – 261, ISSN: 1842-6573; WOS:000376707900027; (FI 2016 = 0,470) 22. I.A. Gherghescu, G.L. Jicmon, M. Brânzei, M.Târcolea, S.Ciucă, <i>On Widening the Application Field of a Ti-rich Ni48Ti52 Shape Memory Alloy Through Ageing Conditions</i>, REV CHIM-BUCHAREST, Vol. 67, Issue:2, pages 302-307, 2016, ISSN: 0034-7752, Accession Number: WOS:000372170700021, (FI 2016 = 1,232) 23. D. Ioniță, M. Capoși, I. Demetrescu, S. Ciucă, I.A. Gherghescu, <i>Effect of artificial aging conditions on corrosion resistance of a TiNi alloy</i>, Materials and Corrosion - Werkstoffe und Korrosion, - MATER CORROS - Volume 66, Issue 5, pages 472–478, May 2015, DOI: 10.1002/maco.201307557, Published: 2015, Print ISSN: 0947-5117; WOS:000353359000007, (FI 2015 = 1,45) 24. I.A. Gherghescu, M. Târcolea, G.L. Jicmon, C.V. Turcaș, <i>Heat Treatment Influence upon Precipitates Chemical Composition and Transformation Temperatures of a NiTi Shape Memory Alloy</i>, REV CHIM-BUCHAREST, Aprilie 2013, VOL.64 (4), Pages: 407 - 413; WOS:000318326600013; (FI 2013 = 0,677) 25. 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) 26. 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) 27. G.D.Badea, R.Constantin, L.E.Novac, I.Gherghescu, <i>Risk management in heat treatment production units</i>, Revista Metalurgia International, VOL XIII, no.9, 2008, Pages: 80-84, WOS:000258493500015; (FI 2008 = 0,173) 28. 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 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. 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. 3. 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 4. 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
		EBSCO	5. 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
		SCOPUS	6. I.Gherghescu , M.Cojocaru, E.Pogor, <i>Aspects concernant l'optimisation du cycle – type de traitement thermique</i> , UPB Scientific Bulletin, Series B: Chemistry and Materials Science, vol. 65, nr. 2 /2003 Pages: 47-54, ISSN 1454-2331.
		SCOPUS	7. I.Gherghescu , <i>Aspects structuraux observes par microscopie electronique a balayage sur un alliage a memoire de forme Ni₅₀Ti₄₈Nb₂</i> UPB Scientific Bulletin, Series B: Chemistry and Materials Science, Vol.61, nr.1-2/1999, Pages: 177-182, ISSN 1454-2331.
		SCOPUS	8. I.Gherghescu , <i>Possibilites de carburation par paliers de temperature et potentiel de carbone</i> , UPB Scientific Bulletin, Series B: Chemistry and Materials Science, Vol.61, nr.1-2/1999, Pages: 285-290, ISSN 1454-2331.
		SCOPUS	9. I.Gherghescu , <i>L'etude de projet de processus de traitement thermique en vue de lesdiriger a l'aide de l'ordinateur</i> UPB Scientific Bulletin, Series B: Chemistry and Materials Science, Vol.61, nr.1-2/1999, Pages: 233-240, ISSN 1454-2331.
		SCOPUS	10. I.Gherghescu , <i>Le place et lerole des traitements thermiques dans la science des materiaux</i> , UPB Buletin Stiintific, Series B: Chemistry and Materials Science, Vol.61, nr.1-2/1999. Pages:279-284, ISSN 1454-2331.

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