

Examen de promovare în cariera didactică pe postul de profesor, poz. 4

Disciplinele postului: Ecomateriale; Identificarea fraudelor prin tehnici avansate de expertiza; Managementul reciclării produselor secundare.

Domeniul Ingineria mediului

FIȘA DE VERIFICARE

a îndeplinirii standardelor universității de prezentare la examenul de promovare în cariera didactică pe postul de profesor universitar

1. Studiile de doctorat

Instituția organizatoare de doctorat	Domeniul	Perioada	Nr. Diplomă / Data
Universitatea București	Chimie	2000-2009	611/09.06.2010

2. Adeverință eliberată de compartimentul de specialitate din UPG Ploiești care dovedește vechimea minimă de 9 ani a candidatului în calitate de cadru didactic în învățământul superior în cadrul UPG Ploiești.

Adeverința nr.10773/13.05.2025

3. Îndeplinirea cerințelor standardelor minime naționale, specifice domeniului postului – se va atașa Fișa de calcul a îndeplinirii standardelor minime conform OMENCs Nr. 6129 / 20.12.2016.

Fișă de verificare a îndeplinirii standardelor minime naționale specifice postului de profesor universitar

Standarde minime necesare și obligatorii	Minim prevăzut	Realizat
Număr total de articole în reviste ISI (NT)	$NT \geq 25$	42
Număr total de articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență) (NP) Număr lucrări în reviste cu FI>1, NP (cu FI>1)	$NP \geq 10$	16
	$NP \text{ (cu FI>1)} \geq 6$	7
Factorului de impact, FIC (articole în reviste cotate ISI+brevete)	$FIC \geq 20$	38.11
Numărul total de citări (din baza SCOPUS sau ISI WEB OF SCIENCE, excluzându-se autocitările)	$NC \geq 100$	228

Număr total articole ISI (NT)

Nr.crt.	Articol	FI (valabil la momentul depunerii dosarului)
1.	Marian Bajan, Diana-Luciana Cursaru, Sonia Mihai The impact of graphene oxide nanoparticles decorated with silver nanoparticles (GrO/AgNP) on the cellulose acetate (CA) membrane matrix used for hydrocarbon removal from water, Membranes , 2025, https://doi.org/10.3390/membranes15060158	3.3
2.	Matei D., Postelnicu M., Mihai S. , Cursaru D-L., <i>Influence of the Synthesis Method on the Textural and Morphological Characteristics of Ni-Based Mesoporous Molecular Sieves</i> , Materials , 2025, 18, 1012. https://doi.org/10.3390/ma18051012	3.1
3.	Mihai S. , Bondarev A., Necula M., The Potential of Biogenic Materials as Sustainable and Environmentally Benign Alternatives to Conventional Adsorbents for Dyes Removal: A Review, Processes , 2025, 13, https://doi.org/10.3390/pr13020589	2.8
4.	Andreea Bondarev, Sonia Mihai* , Abubakar Usman Katsina, Diana Luciana Cursaru, Danuta Matei, Veronica Satulu, Catalina Gheorghe, Gheorghe Brănoiu, Somoghi Raluca <i>A Facile Microwave-Promoted Formation of Highly Photoresponsive Au-decorated TiO₂ Nanorods for Enhanced Photo-degradation of Methylene Blue</i> , Nanomaterials , 2024, 14, 1780. https://doi.org/10.3390/nano14221780	4.4
5.	Calin, C., Dinita, A., Branoiu G., Popovici D.R., Tanase, M., Sirbu E.E., Portoaca A.I., Miha S., Assessment of Environmental Impact on Glass-Fiber_Reinforced Polymer Pipes Mechanical and Thermal Properties, Polymers , 2024, 16, 16, 1779.	4.7
6.	Viorel Gheorghe, Catalina Gabriela Gheorghe, Daniela Roxana Popovici, Sonia Mihai , Raluca Elena Dragomir, Raluca Somoghi, <i>Reduction of Oxygen Production by Algal Cells in the Presence of O-Chlorobenzylidene Malononitrile</i> , Bioengineering 2024, 11, 623. https://doi.org/10.3390/bioengineering11060623	3.8
7.	Raluca Somoghi, Sonia Mihai , George-Mihail Teodorescu, Zina Vuluga, Augusta Raluca Gabor, Cristian-Andi Nicolae, Bogdan Trică, Daniel Mihai Stănescu Vătău, Florin Oancea, Cătălin Marian Stănciulescu, <i>Influence of HNT-ZnO Nanofillers on the Performance of Epoxy Resin Composites for Marine Applications</i> , Coatings 2024, 14, 532. https://doi.org/10.3390/coatings14050532	2.9
8.	Mihai, S. , Bondarev, A., Calin, C., Sirbu, EE., Adsorbent Biomaterials Based on Natural Clays and Orange Peel Waste for the Removal of Anionic Dyes from Water, Processes , 2024, 12(5), p.1032, ISSN 2227-9717 https://doi.org/10.3390/pr12051032	2.8
9.	Abubakar Usman Katsina, Diana-Luciana Cursaru, Dănuta Matei, Sonia Mihai , Effect of Morphology Modification of BiFeO ₃ on Photocatalytic Efficacy of P-g-C ₃ N ₄ /BiFeO ₃ Composites, Int. J. Mol. Sci. 2024, 25, 4948. https://doi.org/10.3390/ijms25094948	4.9
10.	N. Giagkas, J. Nasr, D. Matei, S.Vizireanu, D. L. Cursaru, S. Mihai , <i>Preparation and tribologic properties of Ti and Zr nitride multilayer coatings</i> , Digest Journal of Nanomaterials and Biostructures , 2024, 19,2, 743.	1
11.	Gheorghe, V., Gheorghe, CG., Popovici, DR., Mihai, S. , Calin, C., Sarbu, EE., Doukeh, R., Grigoriu, N., Toader, CN., Epure, C., Matei, V., Synthesis, Purity Check, Hydrolysis and Removal of o-Chlorobenzyliden Malononitrile (CBM) by Biological Selective Media, Toxics , 2023, 11(8), p.672, ISSN 2305-6304 https://doi.org/10.3390/toxics11080672	3.9

12.	Abubakar Usman Katsina, Sonia Mihai , Dănuța Matei, Diana-Luciana Cursaru, Raluca Șomoghi, Cristina Lavinia Nistor, <i>Construction of Pt@BiFeO₃ Xerogel-Supported O-g-C₃N₄ Heterojunction System for Enhanced Visible-Light Activity towards Photocatalytic Degradation of Rhodamine B</i> , Gels , 2023, 9,471.	5
13.	Bondarev, A., Popovici, DR., Calin, C., Mihai, S. , Sirbu, EE., Doukeh, R., Black Tea Waste as Green Adsorbent for Nitrate Removal from Aqueous Solutions, Materials , 2023, 16(12), p.4285, ISSN 1996-1944, https://doi.org/10.3390/ma16124285	3.1
14.	D. Matei, A. K. Usman., S. Mihai , D. L. Cursaru, R., Somoghi, C.L.Nistor, Synthesis of Ruthenium-Promoted ZnO/SBA-15 Composites for Enhanced Photocatalytic Degradation of Methylene Blue Dye, Polymers 2023, 15, 1210. https://doi.org/10.3390/polym15051210	4.7
15.	A. K. Usman., D. L. Cursaru, Gh. Brănoiu, R., Somoghi, A. M. Manta, D. Matei, S. Mihai , <i>A Modified Sol–Gel Synthesis of Anatase {001}-TiO₂/Au Hybrid Nanocomposites for Enhanced Photodegradation of Organic Contaminants</i> , Gels 2022, 8, 728. https://doi.org/10.3390/gels8110728	5
16.	Daniela Roxana Popovici, Mihaela Neagu, Cristina Maria Dutescu-Vasile, Dorin Bombos, Sonia Mihai , Elena-Emilia Oprescu <i>Adsorption of p-nitrophenol onto activated carbon prepared from fir sawdust: isotherm studies and error analysis</i> , Reaction Kinetics, Mechanisms and Catalysis , 2021, 133, https://doi.org/10.1007/s11144-021-01997-8	1.7
17.	Giagkas, N., Micu I.F., Vizireanu, S., Vasile, N., Bită, B.I., Satulu, V., Mihai, S., Manta A.M., Cursaru D.L. Tribological properties of Zr.N coatings deposited by magnetron sputtering in reactive and no-reactive mode, <i>Digest Journal of Nanomaterials and Biostructures</i> , 2021, 16 92) pp.659-667.	1
18.	Mihai S. , Cursaru D.L., Matei D., Manta A.M., Somoghi R., Branoiu G., <i>Rutile Ru_xTi_{1-x}O₂ nanobelts to enhance visible light activated photocatalytic activity</i> , Scientific Reports , 2019, 9, 18798 https://doi.org/10.1038/s41598-019-55446-7	3.8
19.	Cursaru DL., Giagkas N., Vizireanu S., Mihai S. , Matei D., Biță B., Stancu C., Manta A.M., Ramadan I, <i>Improvement of Antiwear Properties by Coating the Steel Surfaces and by Lubricant Additivation</i> , Digest Journal of Nanomaterials and Biostructures , 2019, 14, No 4, p. 907-915.	1
20.	Manta AM., Cursaru DL., Mihai S. , <i>The influence of synthesis conditions on the structural and redox properties of Mn-MCM-41</i> , Digest Journal of Nanomaterials and Biostructures , 2019, 14, No 3, p. 509-515.	1
21.	Cursaru D.L., Nassreddine S., Riachi B., Neagu M., Mihai S. , Matei D., Branoiu G. <i>Impact of moisture on the corrosion behavior of copper and mild carbon steel in corn biodiesel</i> , Corrosion Rev. , 2018, 36, 6, p.559-574, ISSN 2191-0316.	2.7
22.	Mihai S. , Cursaru D.L., Matei D., Dinescu A., Stoica S.D., Vizireanu S., Dinescu G., <i>Carbon Nanowalls Decorated with Gold Nanoparticles for Surface-Enhanced Raman Spectroscopy</i> , Digest Journal of Nanomaterials and Biostructures , 2018, 13, No 3, p. 743-749, ISSN 1842–3582.	1
23.	Cursaru L. D., Doicin B., Mihai S., Connection between Co/MCM-48, catalyst synthesis conditions and performances in the steam reforming process through artificial network, Digest Journal of Nanomaterials and Biostructures , 2017, 12, No 2, p. 483-494, ISSN 1842–3582.	1

24.	Bondarev, A., Pantea, O., Mihai, S., Calin, C. , Gheorghe, CG., Removal of Cadmium from Aqueous Solutions Using Low Cost Sorbents, Revista de Chimie , 2016, 67(4), p. 728-733, ISSN 0034-7752 http://bch.ro/pdfRC/BONDAREV%20A%204%2016.pdf	0
25.	<u>Matei D., Cursaru D.L., Mihai S., Preparation of MCM-48 mesoporous molecular sieve influence of preparation conditions on the structural properties, Digest Journal of Nanomaterials and Biostructures, 2016, 11, 1, p. 271-276, ISSN 1842-3582</u>	1
26.	Mihai S. , Cursaru L. D., Ghita D., Dinescu A., Morpho ierarhic TiO ₂ with plasmonic gold decoration for highly active photocatalysis properties, MaterLett. , 2016, 162, p. 222-225, ISSN 0167-577X	2.7
27.	Gheorghe Branoiu, Sonia Mihai , Diana Cursaru, Rietveld Structure Refinement of the Stibnite Crystals from Herja (Romania) using X-ray Powder Diffraction Data Rev.Chim. (Bucharest), 2015, 66, 6, p.825-828, ISSN 0034-7752	0
28.	Cursaru D., Ghiță D., Mihai S. Effect of functionalization of single walled carbon nanotubes on antiwear properties of a mineral oil, Digest Journal of Nanomaterials and Biostructures , 2014, 9, No 4, p. 1379-1388, ISSN 1842-3582	1
29.	Cursaru D., Vizireanu S., Mihai S. , Ghiță D., Stoica, D.S., Dinescu Gh., Friction and wear properties of carbon nanowalls coatings, Digest Journal of Nanomaterials and Biostructures , 2014, 9, No 3, p. 1105-1114, ISSN 1842-3582	1
30.	D. Bombos, R. Ganea, V. Matei, C. Marinescu, A. Bondarev, S. Mihai , T. Natu, I. Tamas, Modified Bentonite for Purification of Dyeing Waste Water, Rev.Chim. (Bucharest), 2014, 65, 8, p.976-982, ISSN 0034-7752	0
31.	Calin, C., Scaeteanu, G., Pantea, O., Ilie, L., Bondarev, A., Mihai, S. , Influence of Dithiocarbamates used for Phytosanitary Treatments on the Microelement Contents from Vineyard Soil in Tohani Region of Romania, Revista de Chimie , 2014, 65(4), p. 497-501, ISSN 0034-7752 https://revistadechimie.ro/Articles.asp?ID=4041	0
32.	Mihai, S. , Synthesis of Gold Nanoparticles Using Schiff Base, Acta Phys. Pol A , 2013, 123, 2, p. 254-255, ISSN 1898-794X	0.5
33.	Cursaru D., Mihai S. , Evaluation of thermal stability of biodiesel synthesized from different edible oils by thermogravimetric analysis, Revista de Chimie , 2013, 64, nr. 10, p. 1156-1159, ISSN 0034-7752.	0
34.	Mihai S. , Bondarev A., Negoiu M., Complexes of Pt(II) and Pd(II) with Symmetrical Bipodal N, N-bis-antipyrine-N' pyridinethioureas, Rev.Chim. (Bucharest), 2013, 64, 2, p.191-195, ISSN 0034-7752.	0
35.	Mihai S. , Malaesteanu, M., Size-depenent Antibacterial of Gold Colloids, Rev.Chim. (Bucharest), 2013, 64, 1, p.105-107, ISSN 0034-7752.	0
36.	Cursaru D., Mihai S. , Corrosion behavior of automotive materials in biodiesel from sunflower oil, Revista de Chimie , 2012, Vol. 63, nr. 9, p. 945-948, ISSN 0034-7752.	0
37.	S. Mihai , M. Negoiu, Synthesis characterization and antitumor activity of platinum (II), palladium (II), gold (III), silver (II), cooper (II), rhodium (III), ruthenium(III) complexes with N-antipyrine N' benzoylthiourea, Rev.Chim. (Bucharest), 2012, 63, 7, p. 697-702, ISSN 0034-7752	0
38.	A Bondarev, S Mihai , O Pantea, S Neagoe, Use of biopolymers for the removal of metal ion contaminants from water, Macromolecular Symposia , 2011, 303, 1, p. 78-84, ISSN 1022-1360	0
39.	Andreea Bondarev, Flavian Cuiban, Sonia Mihai , Synthesis and Characterization of N-acylation and N-alkylation Derivatives of 4-azasebacic Acid and Diethyl-4-azasebacate Rev.Chim. (Bucharest), 2009, 60, 11, p.1155-1159, ISSN 0034-7752.	0

40.	Sonia Mihai , Maria Negoiu, Andreea Bondarev, <i>Synthesis, Characterization and Biological Activity of Some Novel Metal Complexes of Schiff Base Derived from p-phenyldiamine and 2-thiophene Carboxaldehyde</i> Rev.Chim. (Bucharest), 2009, 60, 8, p.778-782, ISSN 0034-7752.	0
41.	Sonia Mihai , Maria Negoiu, <i>Synthesis and Characterization of Ni (II), Pt (IV), Pd (II), Co (II), Au (III), Cu (II) Complexes with Mixed Ligands</i> , Rev.Chim. (Bucharest), 2009, 60, 3, p.222-225, ISSN 0034-7752.	0
42.	Negoiu M., Mihai S. , Neagoe S., Pantea O., <i>Co(II), Cd(II), Pd(II), Rh(III) and Pt(IV) complex combinations with thiuram</i> Rev.Chim. (Bucharest), 2007, 58, 10, p.866-869, ISSN 0034-7752.	0

NT = 42

Număr articole în reviste ISI ca autor principal (prim autor sau autor de corespondență) (NP)

Nr.crt.	ARTICOL	OBSERVAȚII	FI (valabil la momentul depunerii dosarului)	FI >1
1.	Mihai S. , Bondarev A., Necula M., <i>The Potential of Biogenic Materials as Sustainable and Environmentally Benign Alternatives to Conventional Adsorbents for Dyes Removal: A Review</i> , Processes, 2025, 13, https://doi.org/10.3390/pr13020589	Prim autor	2.8	Da
2.	Andreea Bondarev, Sonia Mihai* , Abubakar Usman Katsina, Diana Luciana Cursaru, Danuta Matei, Veronica Satulu, Catalina Gheorghe, Gheorghe Brănoiu, Somoghi Raluca <i>A Facile Microwave-Promoted Formation of Highly Photoresponsive Au-decorated TiO₂ Nanorods for Enhanced Photo-degradation of Methylene Blue</i> , Nanomaterials 2024, 14, 1780. https://doi.org/10.3390/nano14221780	autor de corespondență	4.4	Da
3.	Abubakar Usman Katsina, Diana-Luciana Cursaru, Dănuța Matei, Sonia Mihai , <i>Effect of Morphology Modification of BiFeO₃ on Photocatalytic Efficacy of P-g-C₃N₄/BiFeO₃ Composites</i> , Int. J. Mol. Sci. 2024, 25, 4948. https://doi.org/10.3390/ijms25094948	autor de corespondență	4.9	Da
4.	Mihai, S. , Bondarev, A., Calin, C., Sirbu, EE., <i>Adsorbent Biomaterials Based on Natural Clays and Orange Peel Waste for the Removal of Anionic Dyes from Water</i> , Processes, 2024, 12(5), p.1032, ISSN 2227-9717 https://doi.org/10.3390/pr12051032	prim autor	2.8	Da
5.	A. K. Usman., D. L Cursaru, Gh. Brănoiu, R., Somoghi, A. M. Manta, D. Matei, S. Mihai , <i>A Modified Sol–Gel Synthesis of Anatase {001}-TiO₂/Au Hybrid Nanocomposites for Enhanced Photodegradation of Organic Contaminants</i> , Gels 2022, 8, 728. https://doi.org/10.3390/gels8110728	autor de corespondență	5	Da
6.	N. Giagkas, J. Nasr, D. Matei, S.Vizireanu, D. L. Cursaru, S. Mihai , <i>Preparation and tribologic properties of Ti and Zr nitride multilayer coatings</i> , Digest Journal of Nanomaterials and Biostructures, 2024, 19,2, 743.	autor de corespondență	1	NU

7.	Mihai S. , Cursaru D.L., Matei D., Manta A.M., Somoghi R., Branoiu G., <i>Rutile $Ru_xTi_{1-x}O_2$ nanobelts to enhance visible light activated photocatalytic activity</i> , Scientific Reports, 2019, 9 , 18798 https://doi.org/10.1038/s41598-019-55446-7	Prim autor	3.7	Da
8.	Mihai S. , Cursaru D.L., Matei D., Dinescu A., Stoica S.D., Vizireanu S., Dinescu G., <i>Carbon Nanowalls Decorated with Gold Nanoparticles for Surface-Enhanced Raman Spectroscopy</i> , Digest Journal of Nanomaterials and Biostructures, 2018 , 13, No 3, p. 743-749, ISSN 1842-3582.	Prim autor	1	NU
9.	Mihai S. , Cursaru L. D., Ghita D., Dinescu A., <i>Morpho ierarhic TiO_2 with plasmonic gold decoration for highly active photocatalysis properties</i> , MaterLett., 2016, 162, p. 222-225, ISSN 0167-577X	Prim autor	2.7	Da
10.	Mihai S. , <i>Synthesis of Gold Nanoparticles Using Schiff Base</i> , Acta Phys. Pol A, 2013, 123, 2, p. 254-255, ISSN 1898-794X	Prim autor	0.5	NU
11.	Mihai S. , Malaiesteanu, M., <i>Size-depenent Antibacterial of Gold Colloids</i> , Rev.Chim. (Bucharest), 2013, 64, 1, p.105-107, ISSN 0034-7752.	Prim autor	0	NU
12.	Mihai S. , Bondarev A., Negoiu M., <i>Complexes of Pt(II) and Pd(II) with Symmetrical Bipodal N, N-bis-antipyrine-N' pyridinethioureas</i> , Rev.Chim. (Bucharest), 2013, 64, 2, p.191-195, ISSN 0034-7752.	Prim autor	0	NU
13.	S. Mihai , M. Negoiu, <i>Synthesis characterization and antitumor activity of platinum (II), palladium (II), gold (III), silver (II), cooper (II), rhodium (III), ruthenium(III) complexes with N-antipirine N' benzoylthioureea</i> , Rev.Chim. (Bucharest), 2012, 63, 7, p. 697-702, ISSN 0034-7752	Prim autor	0	NU
14.	Sonia Mihai , Maria Negoiu, <i>Synthesis and Characterization of Ni (II), Pt (IV), Pd (II), Co (II), Au (III), Cu (II) Complexes with Mixed Ligands</i> , Rev.Chim. (Bucharest), 2009, 60, 3, p.222-225, ISSN 0034-7752.	prim autor	0	NU
15.	Sonia Mihai , Maria Negoiu, Andreea Bondarev, <i>Synthesis, Characterization and Biological Activity of Some Novel Metal Complexes of Schiff Base Derived from p-phenyldiamine and 2-thiophene Carboxaldehyde</i> Rev.Chim. (Bucharest), 2009, 60, 8, p.778-782, ISSN 0034-7752.	prim autor	0	NU
16.	Negoiu M., Mihai S. , Neagoe S., Pantea O., <i>Co(II), Cd(II), Pd(II), Rh(III) and Pt(IV) complex combinations with thiuram</i> Rev.Chim. (Bucharest), 2007, 58, 10, p.866-869, ISSN 0034-7752.	autor de corespondență	0	NU

NP =16 (DIN CARE 7 CU FI > 1)

Fișă de calcul a factorului de impact (FIC)

Nr. crt.	ARTICOL	FI (valabil la momentul depunerii dosarului)	AUTOR PRINCIPAL (prim autor sau autor de corespondență)	NR. AUTORI	FI/ NR. AUTORI
1.	Marian Bajan, Diana-Luciana Cursaru, Sonia Mihai The impact of graphene oxide nanoparticles decorated with silver nanoparticles (GrO/AgNP) on the cellulose acetate (CA) membrane matrix used for hydrocarbon removal from water, Membranes, 2025	3.3	Nu	3	1.1
2.	Matei D., Postelnicu M., Mihai S. , Cursaru D-L., <i>Influence of the Synthesis Method on the Textural and Morphological Characteristics of Ni-Based Mesoporous Molecular Sieves</i> , Materials, 2025, 18, 1012. https://doi.org/10.3390/ma18051012	3.1	Nu	4	0.77
3.	Mihai S. , Bondarev A., Necula M., The Potential of Biogenic Materials as Sustainable and Environmentally Benign Alternatives to Conventional Adsorbents for Dyes Removal: A Review, Processes, 2025, 13, https://doi.org/10.3390/pr13020589	2.8	Da	3	2.8
4.	Andreea Bondarev, Sonia Mihai* , Abubakar Usman Katsina, Diana Luciana Cursaru, Danuta Matei, Veronica Satulu, Catalina Gheorghe, Gheorghe Brănoiu, Somoghi Raluca <i>A Facile Microwave-Promoted Formation of Highly Photoresponsive Au-decorated TiO₂ Nanorods for Enhanced Photo-degradation of Methylene Blue</i> , Nanomaterials, 2024,	4.4	Da	9	4.4
5.	Calin, C., Dinita, A., Branoiu G., Popovici D.R., Tanase, M., Sirbu E.E., Portoaca A.I., Mihai S. , Assessment of Environmental Impact on Glass-Fiber_Reinforced Polymer Pipes Mechanical and Thermal Properties, Polymers, 2024, 16, 16, 1779.	4.7	Nu	8	0.58
6.	Viorel Gheorghe, Catalina Gabriela Gheorghe, Daniela Roxana Popovici, Sonia Mihai , Raluca Elena Dragomir, Raluca Somoghi, <i>Reduction of Oxygen Production by Algal Cells in the Presence of O-Chlorobenzylidene Malononitrile</i> , Bioengineering 2024, 11, 623. https://doi.org/10.3390/bioengineering11060623	3.8	Nu	6	0.63
7.	Raluca Somoghi, Sonia Mihai , George-Mihail Teodorescu, Zina Vuluga, Augusta Raluca Gabor, Cristian-Andi Nicolae, Bogdan Trică,	2.9	Nu	10	0.29

	Daniel Mihai Stănescu Vătău, Florin Oancea, Cătălin Marian Stănciulescu, <i>Influence of HNT-ZnO Nanofillers on the Performance of Epoxy Resin Composites for Marine Applications</i> , Coatings 2024, 14, 532. https://doi.org/10.3390/coatings14050532				
8.	Mihai, S. , Bondarev, A., Calin, C., Sirbu, EE., Adsorbent Biomaterials Based on Natural Clays and Orange Peel Waste for the Removal of Anionic Dyes from Water, Processes, 2024, 12(5), p.1032, ISSN 2227-9717 https://doi.org/10.3390/pr12051032	2.8	Da	4	2.8
9.	Abubakar Usman Katsina, Diana-Luciana Cursaru, Dănuța Matei, Sonia Mihai , Effect of Morphology Modification of BiFeO ₃ on Photocatalytic Efficacy of P-g-C ₃ N ₄ /BiFeO ₃ Composites, Int. J. Mol. Sci. 2024, 25, 4948. https://doi.org/10.3390/ijms25094948	4.9	Da	4	4.9
10..	N. Giagkas, J. Nasr, D. Matei, S.Vizireanu, D. L. Cursaru, S. Mihai , Preparation and tribologic properties of Ti and Zr nitride multilayer coatings, Digest Journal of Nanomaterials and Biostructures, 2024, 19,2, 743.	1	Da	6	1
11.	Gheorghe, V., Gheorghe, CG., Popovici, DR., Mihai, S. , Calin, C., Sirbu, EE., Doukeh, R., Grigoriu, N., Toader, CN., Epure, C., Matei, V., Synthesis, Purity Check, Hydrolysis and Removal of o-Chlorobenzyliden Malononitrile (CBM) by Biological Selective Media, TOXICS, 2023, 11(8), p.672, ISSN 2305-6304 https://doi.org/10.3390/toxics11080672	3.9	Nu	11	0.35
12.	Abubakar Usman Katsina, Sonia Mihai , Dănuța Matei, Diana-Luciana Cursaru, Raluca Șomoghi, Cristina Lavinia Nistor, Construction of Pt@BiFeO ₃ Xerogel-Supported O-g-C ₃ N ₄ Heterojunction System for Enhanced Visible-Light Activity towards Photocatalytic Degradation of Rhodamine B, Gels, 2023, 9,471.	5	Nu	6	0.83
13.	Bondarev, A., Popovici, DR., Calin, C., Mihai, S. , Sirbu, EE., Doukeh, R., Black Tea Waste as Green Adsorbent for Nitrate Removal from Aqueous Solutions, Materials, 2023, 16(12), p.4285, ISSN 1996-1944, https://doi.org/10.3390/ma16124285	3.1	Nu	6	0.51
14.	D. Matei, A. K. Usman., S. Mihai , D. L Cursaru, R., Somoghi, C.L.Nistor, Synthesis of Ruthenium-Promoted ZnO/SBA-15	4.7	Nu	6	0.78

	Composites for Enhanced Photocatalytic Degradation of Methylene Blue Dye, Polymers 2023, 15, 1210. https://doi.org/10.3390/polym15051210				
15.	A. K. Usman., D. L. Cursaru, Gh. Brănoiu, R., Somoghi, A. M. Manta, D. Matei, S. Mihai , <i>A Modified Sol–Gel Synthesis of Anatase {001}-TiO₂/Au Hybrid Nanocomposites for Enhanced Photodegradation of Organic Contaminants</i> , Gels 2022, 8, 728. https://doi.org/10.3390/gels8110728	5	Da	7	5
16.	Daniela Roxana Popovici, Mihaela Neagu, Cristina Maria Dutescu-Vasile, Dorin Bombos, Sonia Mihai , Elena-Emilia Oprescu <i>Adsorption of p-nitrophenol onto activated carbon prepared from fir sawdust: isotherm studies and error analysis</i> , Reaction Kinetics, Mechanisms and Catalysis, 2021, 133, https://doi.org/10.1007/s11144-021-01997-8	1.7	Nu	6	0.28
17.	Giagkas, N., Micu I.F., Vizireanu, S., Vasile, N., Bită, B.I., Satulu, V., Mihai, S., Manta A.M., Cursaru D.L. Tribological properties of Zr.N coatings deposited by magnetron sputtering in reactive and no-reactive mode, Digest Journal of Nanomaterials and Biostructures, 2021, 16 92) pp.659-667.	1	Nu	8	0.12
18.	Mihai S. , Cursaru D.L., Matei D., Manta A.M., Somoghi R., Brănoiu G., <i>Rutile Ru_xTi_{1-x}O₂ nanobelts to enhance visible light activated photocatalytic activity</i> , Scientific Reports, 2019, 9, 18798 https://doi.org/10.1038/s41598-019-55446-7	3.8	Da	6	3.8
19.	Cursaru DL., Giagkas N., Vizireanu S., Mihai S. , Matei D., Biță B., Stancu C., Manta A.M., Ramadan I, <i>Improvement of Antiwear Properties by Coating the Steel Surfaces and by Lubricant Additivation</i> , Digest Journal of Nanomaterials and Biostructures, 2019, 14, No 4, p. 907-915.	1	Nu	9	0.11
20.	Manta AM., Cursaru DL., Mihai S. , <i>The influence of synthesis conditions on the structural and redox properties of Mn-MCM-41</i> , Digest Journal of Nanomaterials and Biostructures, 2019, 14, No 3, p. 509-515.	1	Nu	3	0.33
21.	Cursaru D.L., Nassreddine S., Riachi B., Neagu M., Mihai S. , Matei D., Brănoiu G. <i>Impact of moisture on the corrosion behavior of copper and</i>	2.7	Nu	7	0.38

	<i>mild carbon steel in corn biodiesel, Corrosion Rev., 2018, 36, 6, p.559-574, ISSN 2191-0316.</i>				
22.	Mihai S. , Cursaru D.L., Matei D., Dinescu A., Stoica S.D., Vizireanu S., Dinescu G., <i>Carbon Nanowalls Decorated with Gold Nanoparticles for Surface-Enhanced Raman Spectroscopy</i> , Digest Journal of Nanomaterials and Biostructures, 2018 , 13, No 3, p. 743-749, ISSN 1842–3582.	1	Da	7	1
23.	Cursaru L. D., Doicin B., Mihai S., <i>Connection between Co/MCM-48, catalyst synthesis conditions and performances in the steam reforming process through artificial network</i> , Digest Journal of Nanomaterials and Biostructures, 2017, 12, No 2, p. 483-494, ISSN 1842–3582.	1	Nu	3	0.33
24.	Bondarev, A., Pantea, O., Mihai, S., Calin, C. , Gheorghe, CG., <i>Removal of Cadmium from Aqueous Solutions Using Low Cost Sorbents</i> , Revista de Chimie, 2016, 67(4), p. 728-733, ISSN 0034-7752 http://bch.ro/pdfRC/BONDAREV%20A%204%2016.pdf WOS:000376549200029	1.232	Nu	5	0
25.	Matei D., Cursaru D.L., Mihai S. , <i>Preparation of MCM-48 mesoporous molecular sieve influence of preparation conditions on the structural properties</i> , Digest Journal of Nanomaterials and Biostructures, 2016, 11, 1, p. 271-276, ISSN 1842–3582	1	Nu	3	0.33
26.	Mihai S. , Cursaru L. D., Ghita D., Dinescu A., <i>Morpho ierarhic TiO₂ with plasmonic gold decoration for highly active photocatalysis properties</i> , MaterLett., 2016, 162, p. 222-225, ISSN 0167-577X	2.7	Da	4	2.7
27.	Gheorghe Branoiu, Sonia Mihai , Diana Cursaru, <i>Rietveld Structure Refinement of the Stibnite Crystals from Herja (Romania) using X-ray Powder Diffraction Data</i> Rev.Chim. (Bucharest), 2015, 66, 6, p.825-828, ISSN 0034-7752 WOS:000357403600014	0.956	Nu	3	0
28.	Cursaru D., Ghiță D., Mihai S. <i>Effect of functionalization of single walled carbon nanotubes on antiwear properties of a mineral oil</i> , Digest Journal of Nanomaterials and Biostructures, 2014, 9, No 4, p. 1379-1388, ISSN 1842–3582	1	Nu	3	0.33
29.	Cursaru D., Vizireanu S., Mihai S. , Ghiță D., Stoica, D.S., Dinescu Gh., <i>Friction and wear</i>	1	Nu	6	0.16

	<i>properties of carbon nanowalls coatings</i> , Digest Journal of Nanomaterials and Biostructures, 2014, 9, No 3, p. 1105-1114, ISSN 1842–3582				
30.	D. Bombos, R. Ganea, V. Matei, C. Marinescu, A. Bondarev, S. Mihai , T. Natu, I. Tamas, <i>Modified Bentonite for Purification of Dyeing Waste Water</i> , Rev.Chim. (Bucharest), 2014, 65, 8, p.976-982, ISSN 0034-7752 WOS:000340867000024	0.810	Nu	8	0
31.	Calin, C., Scaeteanu, G., Pantea, O., Ilie, L., Bondarev, A., Mihai, S. <i>Influence of Dithiocarbamates used for Phytosanitary Treatments on the Microelement Contents from Vineyard Soil in Tohani Region of Romania</i> , Revista de Chimie, 2014, 65(4), p. 497-501, ISSN 0034-7752 https://revistadechimie.ro/Articles.asp?ID=4041 WOS:000338605100023	0.810	Nu	6	0
32.	Mihai, S. , <i>Synthesis of Gold Nanoparticles Using Schiff Base</i> , Acta Phys. Pol A, 2013, 123, 2, p. 254-255, ISSN 1898-794X	0.5	Da	1	0.5
33.	Cursaru D., Mihai S. , <i>Evaluation of thermal stability of biodiesel synthesized from different edible oils by thermogravimetric analysis</i> , Revista de Chimie, 2013, 64, nr. 10, p. 1156-1159, ISSN 0034-7752. WOS:000327577600020	0.677	Nu	2	0
34.	Mihai S. , Bondarev A., Negoiu M., <i>Complexes of Pt(II) and Pd(II) with Symmetrical Bipodal N, N-bis-antipyrine-N' pyridinethioureas</i> , Rev.Chim. (Bucharest), 2013, 64, 2, p.191-195, ISSN 0034-7752. WOS:000315756400016	0.677	Da	3	0
35.	Mihai S. , Malaisteanu, M., <i>Size-depenent Antibacterial of Gold Colloids</i> , Rev.Chim. (Bucharest), 2013, 64, 1, p.105-107, ISSN 0034-7752. WOS:000315934900020	0.538	Da	2	0
36.	Cursaru D., Mihai S. , <i>Corrosion behavior of automotive materials in biodiesel from sunflower oil</i> , Revista de Chimie, 2012, Vol. 63, nr. 9, p. 945-948, ISSN 0034-7752. WOS:000310928900018	0.538	Nu	2	0
37.	S. Mihai , M. Negoiu, <i>Synthesis characterization and antitumor activity of platinum (II), palladium (II), gold (III), silver (II), cooper (II), rhodium (III), ruthenium(III) complexes with N-antipyrine N' benzoylthioureea</i> , Rev.Chim. (Bucharest), 2012, 63, 7, p. 697-702, ISSN 0034-7752 WOS:000308731500010	0.538	Da	2	0
38.	A Bondarev, S Mihai , O Pantea, S Neagoe, <i>Use of biopolymers for the removal of metal ion contaminants from water</i> , Macromolecular	0	Nu	4	0

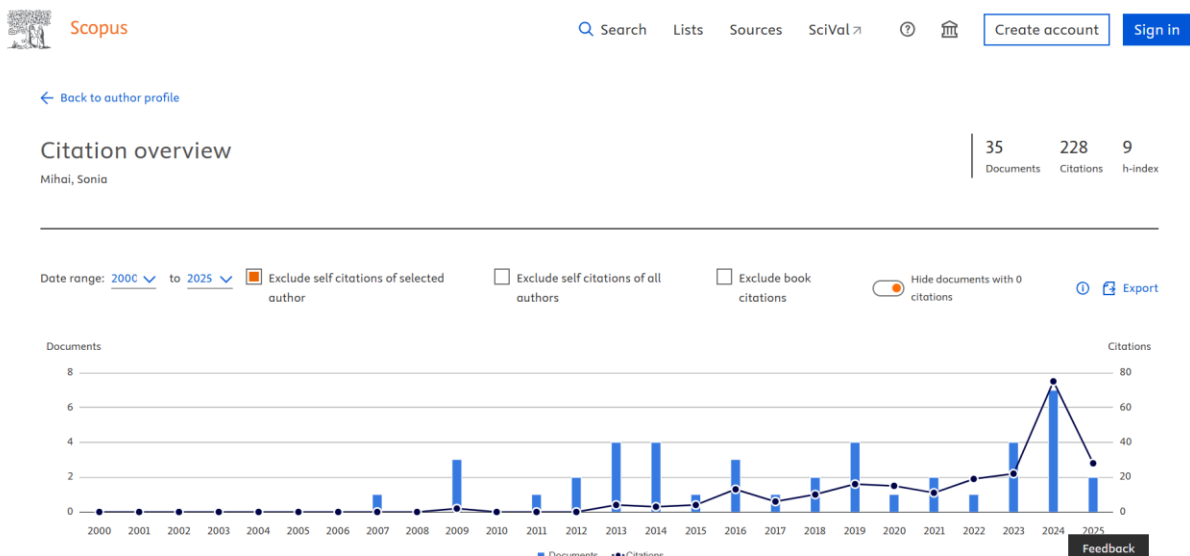
	Symposia, 2011, 303, 1, p. 78-84, ISSN 1022-1360				
39.	Andreea Bondarev, Flavian Cuiban, Sonia Mihai , <i>Synthesis and Characterization of N-acylation and N-alkylation Derivatives of 4-azasebacic Acid and Diethyl-4-azasebacate</i> Rev.Chim. (Bucharest), 2009, 60, 11, p.1155-1159, ISSN 0034-7752. WOS:000273802400010	0	Nu	3	0
40.	Sonia Mihai , Maria Negoiu, Andreea Bondarev, <i>Synthesis, Characterization and Biological Activity of Some Novel Metal Complexes of Schiff Base Derived from p-phenyldiamine and 2-thiophene Carboxaldehyde</i> Rev.Chim. (Bucharest), 2009, 60, 8, p.778-782, ISSN 0034-7752. WOS:000269163700010	0.469	Da	3	0
41.	Sonia Mihai , Maria Negoiu, <i>Synthesis and Characterization of Ni (II), Pt (IV), Pd (II), Co (II), Au (III), Cu (II) Complexes with Mixed Ligands</i> , Rev.Chim. (Bucharest), 2009, 60, 3, p.222-225, ISSN 0034-7752. WOS:000265053000003	0.469	Da	2	0
42.	Negoiu M., Mihai S. , Neagoe S., Pantea O., <i>Co(II), Cd(II), Pd(II), Rh(III) and Pt(IV) complex combinations with thiuram</i> Rev.Chim. (Bucharest), 2007, 58, 10, p.866-869, ISSN 0034-7752. WOS:000254644400002	0.26	Da	4	0
FIC - factor de impact cumulat (suma factorilor de impact ale revistelor la momentul depunerii dosarului)					37,11

Nr. crt.	Brevetul, autorii, titlul brevetului, instituția care l-a acordat, țara în care se află instituția, data acordării brevetului.	Tipul brevetului (național/internațional)	Număr autori	Factorul de impact al brevetului	Factorul de impact ce revine candidatului
1	D. Bombos, I. Bolocan, D. Popovici, O. Pantea, D. Cristina, J. Traian, A. Bondarev, S. Mihai , G. Bozga, M. Bombos, G. Vasilievici, I. Bolma, E. Zaharia, <i>Procedeu de obtinere a unui combustibil lichid de focare</i> , OSIM RO 126668 A2 din 2012	național	13	1	1
Indicatorul FIC (din brevete)					1

FIC = 38.11

Numărul citărilor din baza de date SCOPUS (NC)

NC = 228



4. Deținerea atestatului de abilitare

Instituția care a acordat atestatul de abilitare	Domeniul	Nr. Atetsat / Data
Universitatea “Vasile Alecsandri” din Bacău	Ingineria mediului	3639/26.03.2025

5. Adeverință eliberată de compartimentul de specialitate din UPG Ploiești care dovedește obținerea de către candidat a calificativului „foarte bine” în ultimii trei ani la UPG Ploiești, precum și faptul că acesta nu a fost sancționat disciplinar în ultimii 3 ani.

Adeverinta nr.10774/13.05.2025

Adeverinta nr. 11610/21.05.2025

Data: 29.05.2025

Candidat,
Conf.dr.chim. habil. Mihai Sonia