



ACADEMIA ROMÂNĂ
SCOSAAR

Anexa nr.3

AVIZAT,

Director ȘCOALA DOCTORALĂ.....

Marcela Mihai

Digitally signed by Marcela Mihai
DN: c=RO, cn=Marcela Mihai,
serialNumber=MM1364,
givenName=Marcela, sn=Mihai
Date: 2025.05.29 09:39:21 +03'00'

1. Îndeplinirea standardelor IOSUD superioare standardelor minimale naționale* ☐ DA | ☐ NU

2. Îndeplinirea standardelor IOSUD egale standardelor minimale naționale* ☒ DA | ☐ NU

FIȘA DE ÎNDEPLINIRE A STANDARDELOR IOSUD

FIȘA DE VERIFICARE

a îndeplinirii standardelor IOSUD

Criteriu	N _{max} (*)	FIC (**)	FIC _D (***)	FIC _{AP} (****)	FI _{AC} (*****)	H index
Ordin	50	100	70	50	25	13
Realizat	40	154,453	154,453	73,707	62,203	18

(*) Primele maxim N lucrări, organizate în ordinea descrescătoare a factorilor de impact a revistelor în care au fost publicate

(**) Factor de impact cumulat minimal al lucrărilor în care s-au publicat lucrările în cauză

(***) Factor de impact cumulat minimal din publicații în domeniile de cercetare declarate

(****) Factor de impact cumulat minimal din publicații în calitatea de autor principal

(*****) Factor de impact cumulat minimal din publicații în calitatea de autor de corespondență

Candidat: CSII Dr. Anghel Elena Maria

Semnătura:

Data: 30.04.2025

*se va alege una dintre variante

Candidat: CSII Dr. Elena Maria Anghel

Standarde minime necesare și obligatorii pentru conferirea titlurilor didactice de profesor și a gradului profesional CS1

Nr.	Referință bibliografică	FIC	FI _D	FIC _{AP}	FIC _{AC}
1	Tabakova, T., Nikolova, D., Ivanov, I., Anghel, E.M. , Karashanova, D., Karakirova, Y., Venezia, A.M., Vakros, J., Crișan, M., Tenchev, K., Gabrovska, M. Study of ceria-doped Au/TiO ₂ catalysts for boosting hydrogen production by water-gas shift reaction (2024) <i>Int. J. Hydrogen Energy</i> , 70 (2024) 389-403. DOI: 10.1016/j.ijhydene.2024.05.125 Citat de 4 ori.	8,1	8,1		
2	E.M. Anghel* , P.M. Pavel, M. Constantinescu, S. Petrescu, I. Atkinson, E. Buixaderas, Thermal transfer performance of a spherical encapsulated PEG 6000-based composite for thermal energy storage, <i>Appl. Energy</i> 208 (2017) 1222-1231 Citat de 21 times. DOI: 10.1016/j.apenergy.2017.09.031	7,9	7,9	7,9	7,9
3	I. Fernández, A. Solé, J. Giró-Paloma, M. Martínez, M. Hadjieva, A. Boudenne, M. Constantinescu, E. M. Anghel , M. Malikova, I. Krupa, C. Peñalosa, A. Lázaro, H. Paksoy, K. Cellat, J. Vecstaudza, D. Bajare, B. Sumiga, B. Boh, T. Haussmann, S. Gschwander, R. Weber; P. Furmanski, M. Jaworski, L. F. Cabeza, Unconventional technologies used for phase change materials (PCM) characterization. Part 2. Morphological and structural characterization, physico-chemical stability and mechanical properties, <i>Renew. Sust. Energy Rev.</i> 43 (2015) 1415–1426. DOI: 10.1016/j.rser.2014.11.051 Citat de 36 ori	6,798	6,798		
4	L. F. Cabeza, C. Barreneche, I. Martorell, L. Miró, S. Sari-Bey; M. Fois; H. O. Paksoy; N. Sahan; R. Weber; M. Constantinescu; E. M. Anghel ; M. Malikova; I. Krupa; M. Delgado; P. Dolado; P. Furmanski; M. Jaworski; T. Haussmann; S. Gschwander; A. I. Fernández, Unconventional technologies available for phase change materials (PCM) characterization. Part 1. Thermophysical properties, <i>Renew. Sust. Energy Rev.</i> 43 (2015) 1399–1414. DOI: 10.1016/j.rser.2014.07.191 Citat de 94 ori	6,798	6,798		
5	M. Tudose, E. Anghel , D.C. Culita, S. Somacescu, J. Calderon, V. Tecuceanu, F.D. Dumitrascu, O. Dracea, M. Popa, L. Marutescu, C. Bleotu, C. Curutiu, M.C. Chifiriuc, Covalent coupling of tuberculostatic agents and graphene oxide: A promising approach for enhancing and extending their antimicrobial applications, <i>Appl. Surf. Sci.</i> 471 (2019) 553-565. DOI: 10.1016/j.apsusc.2018.11.242 Citat de 18 ori.	6,182	6,182		
6	V. Mușat*, E.M. Anghel* , A. Zaharia, I. Atkinson, O.C. Mocioiu, M. Bușilă, P. Alexandru, A Chitosan–Agarose Polysaccharide-Based Hydrogel for Biomimetic Remineralization of Dental Enamel, <i>Biomolecules</i> 2021, 11, 1137. DOI: 10.3390/biom11081137 Citat de 43 ori.	6,064	6,064	6,064	6,064
7	C. Lete, M. Marin, E.M. Anghel , I. Preda, C. Matei, S. Lupu, Sinusoidal voltage electrodeposition of PEDOT-Prussian blue nanoparticles	5,880	5,880		

	composite and its application to amperometric sensing of H ₂ O ₂ in human blood, <i>Mater. Sci. Eng. C</i> 102 (2019) 661-669. DOI: 10.1016/j.msec.2019.04.086 Cited 34 times.				
8	L. Ilieva, I. Ivanov; P. Petrova; G. Munteanu; Y. Karakirova; J.W. Sobczak; W. Lisowski; E.M. Anghel ; Z. Kaszkur; T. Tabakova, Effect of Y-doping on the catalytic properties of CuO/CeO ₂ catalysts for water-gas shift reaction, <i>Int. J. Hydrog. Energy</i> 45(49) (2020) 26286-26299. DOI: 10.1016/j.ijhydene.2019.10.190 Citat de 25 ori	5,816	5,816		
9	V. Mușat*, L. Crîntea (Căpățână), E.M. Anghel* , N. Stănică, I. Atkinson, D. C. Culiță, L. Baroiu, N. Țigău, A. Cataragiu Cioromila, A.-V. Botezatu (Dediu), O. Carp, Ag-decorated iron oxides-silica magnetic nanocomposites with antimicrobial and photocatalytic activity, <i>Nanomaterials</i> 12 (2022) 4452. DOI: 10.3390/nano12244452 Citat de 5 ori	5,3	5,3	5,3	5,3
10	P.M. Pavel, M. Constantinescu, E.M. Anghel , M. Olteanu. Solidification of a PEG 1500-Epoxy nanocomposite around a horizontal pipe, <i>Appl. Energy</i> 89 (2012) 482–489. DOI: 10.1016/j.apenergy.2011.08.023 Citat de 13 ori.	4,781	4,781		
11	M. Tudose*, R.D. Baratoiu-Carpen, E.M. Anghel* , M. Voicescu, S. Somacescu, D.C. Culita, A. Hanganu, A. Kuncser, A. Radoi*, A novel composite based on pyrene thiazole grafted on graphene oxide: physico-chemical characterization and electrochemical investigations, <i>Mater. Chem. Phys.</i> 262 (2021) 124315. DOI: 10.1016/j.matchemphys.2021.124315 Citat de 5 ori.	4,778	4,778	4,778	4,778
12	C.A. Marinescu, A. Sofronia, E.M. Anghel , R. Baies, D. Constantin, A.-M. Seciu, O. Gingu, S. Tanasescu, Effect of the processing conditions on the formation, properties and biocompatibility of titania reinforced hydroxyapatite nanoparticles, <i>Arab. J. Chem.</i> 12 (2019) 857-867. DOI: 10.1016/j.arabjc.2017.01.019 Cited 16 times.	4,762	4,762		
13	C. L. Nistor, I. C. Gifu, E.M. Anghel* , R. Ianchis, C. Diana, C. A. Nicolae, A. R. Gabor, I. Atkinson, C. Petcu*, Novel PEG6000 – Silica - MWCNTs shape-stabilized composite phase change materials (ssCPCMs) for thermal energy storage, <i>Polymers</i> 2023, 15(14), 3022. DOI: 10.3390/polym15143022 Citat de 5 ori	4,7	4,7	4,7	4,7
14	V. Musat, N. Stanica, E.M. Anghel* , I. Atkinson, D.C. Culita, S. Polosan, L. Crîntea, A. Cataragiu Ceoromila, C.-T. Buruiana, O. Carp, Magnetic Core-Shell Iron Oxides-based Nanophotocatalysts and Nanoadsorbents for Multifunctional Thin Films. <i>Membranes</i> 12 (2022) 466. DOI: 10.3390/membranes12050466 Citat de 12 ori.	4,562	4,562	4,562	4,562
15	I. Atkinson*, E.M. Anghel* , S. Petrescu, A. M. Seciu, L. M. Stefan, O.C. Mocioiu, L. Predoana, M. Voicescu, S. Somacescu, D. Culita and M. Zaharescu, Cerium-containing mesoporous bioactive glasses: Material characterization, in vitro bioactivity, biocompatibility and cytotoxicity, evaluation, <i>Micropor. Mesopor. Mater.</i> 76 (2019) 76-88. DOI: 10.1016/j.micromeso.2018.09.029	4,551	4,551	4,551	4,551

	Citat de 47 ori.				
16	E.M. Anghel , S. Petrescu*, O.C. Mocioiu, J.P. Cusu, I. Atkinson, Influence of ceria addition on crystallization behavior and properties of mesoporous bioactive glasses in the SiO ₂ -CaO-P ₂ O ₅ -CeO ₂ system, <i>Gels</i> 8 (2022) 344. DOI: 10.3390/gels8060344 Citat de 8 ori.	4,432	4,432	4,432	
17	V. Mușat *, E.E. Herbei, E.M. Anghel* , M.P.M. Jank, S. Oertel, D. Timpu, L. Frangu, Low-Temperature and UV irradiation effect on transformation of zirconia -MPS nBBs-based gels into hybrid transparent dielectric thin films, <i>Gels</i> 8 (2022) 68. DOI: 10.3390/gels8020068 Citat 1 dată.	4,432	4,432	4,432	4,432
18	Filip, M., Anghel, E.M.* , Rednic, V., Papa, F., Somacescu, S., Munteanu, C., Aldea, N., Zhang, J., Parvulescu, V.* Variation in Metal-Support Interaction with TiO ₂ Loading and Synthesis Conditions for Pt-Ti/SBA-15 Active Catalysts in Methane Combustion (2023) <i>Nanomaterials</i> , 13 (2023) art. no. 1647. DOI: 10.3390/nano13101647 Citat de 2 ori.	4,4	4,4	4,4	4,4
19	A. Stan, C. Munteanu, A.M. Musuc, R. Birjega, R. Ene, A. Ianculescu, I. Raut, L. Jecu, M. Badea Doni, E.M. Anghel , O. Carp, A general, green synthesis procedure of self-assembled ZnO-based materials with multifunctional properties, <i>Dalton Trans.</i> 44 (2015) 7844 – 7853. DOI: 10.1039/c5dt00707k Citat de 19 ori.	4,177	4,177		
20	P. Florian, E.M. Anghel , C.Bessada, Local structure of melts and solids in the Na ₂ B ₄ O ₇ -Na ₃ AlF ₆ -TiO ₂ system: A multinuclear NMR approach, <i>J. Phys. Chem. B</i> 111 (2007) 968-978. DOI: 10.1021/jp065201p Citat de 11 ori.	4,086	4,086		
21	E.M. Anghel , P. Florian, C. Bessada, Structural description of melts and solids in the system Na ₂ B ₄ O ₇ -Na ₃ AlF ₆ -TiO ₂ .1.IR and Raman study of the solidified melts, <i>J. Phys. Chem. B</i> 111 (2007) 962-967. DOI: 10.1021/jp061977e Citat de 11 ori.	4,086	4,086	4,086	
22	C.Bessada, E.M. Anghel , ¹¹ B, ²³ Na, and ²⁷ Al NMR study of solid and molten Na ₃ AlF ₆ - Na ₂ B ₄ O ₇ , <i>Inorg. Chem.</i> 42[12] (2003) 3884-3890. DOI: 10.1021/ic026074o Citat de 15 ori.	3,389	3,389		
23	A.M. Sofronia, R. Baies, E.M. Anghel , C.A. Marinescu, S.Tanasescu, Thermal and structural characterization of synthetic and natural nanocrystalline hydroxyapatite, <i>Mater. Sci. Eng. C</i> 43 (2014) 153-163. DOI: 10.1016/j.msec.2014.07.023 Citat de 150 ori.	3,349	3,349		
24	I. Atkinson, V. Parvulescu, J. Pandele Cusu, E. Anghel , M. Voicescu, D.C. Culita, C. Munteanu, M. Šćepanović, Z. Popovic, V. Fruth, Influence of preparation method and nitrogen (N) doping on properties and photo-catalytic activity of mesoporous SrTiO ₃ , <i>J. Photochem. Photobiol. A Chem.</i> 368 (2019) 41-51. DOI: 10.1016/j.jphotochem.2018.09.019 Citat de 51 ori.	3,306	3,306		

25	E. Craciun, L. Predoana, I. Atkinson, I. Jitaru, E.M. Anghel , V. Bratan, C. Gifu, C. Anastasescu, A. Rusu, V. Raditoiu, E. Vasile, M. Anastasescu, I. Balint, M. Zaharescu, Fe ³⁺ -doped TiO ₂ nanopowders for photocatalytic mineralization of oxalic acid under solar light irradiation <i>J. Photochem. Photobiol. A Chem.</i> 356 (2018) 18-28. DOI: 10.1016/j.jphotochem.2017.12.024 Citat de 26 ori.	3,261	3,261		
26	A. Zaharia, M. Bușilă, E.M. Anghel , I. Atkinson, O.C. Mocioiu, V. Ghisman Pleșcan, V. Mușat, Biomimetic chitosan-hydroxyapatite hybrid biocoatings for enamel remineralization, <i>Ceram. Int.</i> 43 (2017) 11390-11402. DOI: 10.1016/j.ceramint.2017.05.346 Citat de 51 ori.	3,057	3,057		
27	E.M. Anghel , M. Marcu*, A. Banu, I. Atkinson, A. Paraschiv, S. Petrescu, Microstructure and oxidation resistance of a NiCrAlY/Al ₂ O ₃ -sprayed coating on Ti-19Al-10Nb-V alloy, <i>Ceram. Int.</i> 42 (2016) 12148-12155. DOI: 10.1016/j.ceramint.2016.04.148 Citat de 26 ori.	2,986	2,986	2,986	
28	I. Atkinson, E.M. Anghel* , L. Predoana, O.C. Mocioiu, L. Jecu, I. Raut, C. Munteanu, D. Culita, M. Zaharescu, Influence of ZnO addition on the structural, in vitro behaviour and antimicrobial activity of sol-gel derived CaO-P ₂ O ₅ -SiO ₂ bioactive glasses, <i>Ceram. Int.</i> 42 (2016) 3033-3045. DOI: 10.1016/j.ceramint.2015.10.090 Citat de 85 ori.	2,986	2,986	2,986	2,986
29	E. Buixaderas, E.M. Anghel* , I. Atkinson, P. Simon, V. Bretan, S. Petrescu, Combustion synthesis and structural characterization of the TiB ₂ -(Na ₂ O.2B ₂ O ₃ -Al ₂ O ₃) composites, <i>Ceram. Int.</i> 41(2) (2015) 2680-2689. DOI: 10.1016/j.ceramint.2014.10.082 Citat de 7 ori.	2,758	2,758	2,758	2,758
30	I. Atkinson, E.M. Anghel* , C. Munteanu, M. Voicescu and M. Zaharescu, ZrO ₂ influence on structure and properties of some alkali lime zinc aluminosilicate glass ceramics, <i>Ceram. Int.</i> 40 (2014) 7337-7344. DOI: 10.1016/j.ceramint.2013.12.076 Citat de 13 ori.	2,605	2,605	2,605	2,605
31	M. Constantinescu, L. Dumitrache, D. Constantinescu, E.M. Anghel , V.T. Popa, A. Stoica, M. Olteanu, Latent heat nano composite building materials, <i>Eur. Polym. J.</i> 46[12] (2010) 2247-2254. DOI: 10.1016/j.eurpolymj.2010.09.007 Citat de 50 ori.	2,34	2,34		
32	E. Buixaderas, E.M. Anghel , S. Petrescu, P. Osiceanu, Structural investigation in the TiB ₂ -(Na ₂ O.B ₂ O ₃ -Al ₂ O ₃) system, <i>J. Solid State Chem.</i> 183 (2010) 2227-2235. DOI: 10.1016/j.jssc.2010.07.023 Citat de 20 ori.	2,261	2,261		
33	E.M. Anghel* , A. Georgiev, S. Petrescu, R. Popov, M. Constantinescu, Thermo-physical characterization of some paraffins used as phase change materials for thermal energy storage, <i>J. Therm. Anal. Calorim.</i> 117 (2014) 557-566. DOI: 10.1007/s10973-014-3775-6 Citat de 55 ori	2,042	2,042	2,042	2,042
34	L. Todan, E.M. Anghel* , P. Osiceanu, R.V.F. Turcu, I. Atkinson, S. Simon, M. Zaharescu, Structural characterization of some sol-gel derived phosphosilicate glasses, <i>J. Mol. Struct.</i> 1086 (2015) 161-171. DOI: 10.1016/j.molstruc.2015.01.012 Citat de 26 ori	1,78	1,78	1,78	1,78

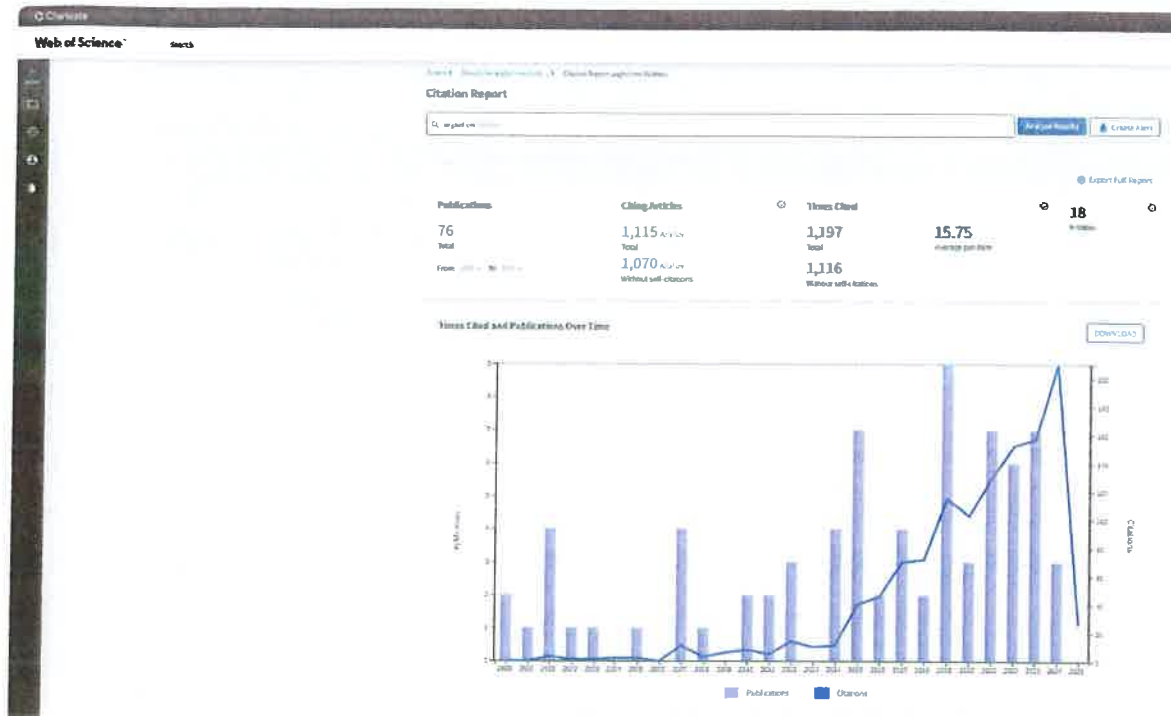
35	S. Petrescu, M. Constantinescu, E.M. Anghel* , I. Atkinson, M. Olteanu, M. Zaharescu, Structural and physico-chemical characterization of some soda lime zinc alumino-silicate glasses, <i>J. Non-Cryst. Solids</i> 358 (2012) 3280-3288. DOI: 10.1016/j.jnoncrysol.2012.09.001 Citat de 53 ori.	1,597	1,597	1,597	1,597
36	V.Fruth, M.Popa, J.M.Calderon Morena, E.M. Anghel , D. Berger, M.Gartner, M.Anastasescu, P.Osiceanu, M. Zaharescu, Chemical solution deposition and characterization of BiFeO ₃ thin films, <i>J. Eur. Ceram. Soc.</i> 27 (2007) 4417-4420. DOI: 10.1016/j.jeurceramsoc.2007.02.175 Citat de 38 ori.	1,567	1,567		
37	A. Zaharia, V. Ghisman Plescan, E.M. Anghel* , V. Musat*, Human dentine remineralization under non-collagen materials action, <i>Rev. Chim.</i> 68(5) (2017) 928-932. DOI: 10.37358/rc.17.5.5583 Citat de 5 ori.	1,232	1,232	1,232	1,232
38	S. Petrescu, M. Malki, M. Constantinescu, E.M. Anghel* , I. Atkinson, R. State, M. Zaharescu, Vitreous and glass-ceramics materials in the SiO ₂ -Al ₂ O ₃ -MeO-M ₂ O type system, <i>J. Optoelectron. Adv. M.</i> 14 (2012) 603-612. Citat de 6 ori.	0,516	0,516	0,516	0,516
39	D. Constantinescu, M. Constantinescu, C. Marin-Perianu, H. Petran, C. Petcu, A-G. Caracas, E. M. Anghel , Principles and determining the thermal diffusivity of homogeneous and isotropic materials, <i>Rev. Roum. Chim.</i> 56 (2011) 987-996. Citat 1 dată	0,418	0,418		
40	D. Constantinescu, M. Constantinescu, H. Petran, C. Petcu, A-G.Caracas, E. M. Anghel, Analysis on the thermal behaviour of the thermal storage units for phase change materials, <i>Rev. Roum. Chim.</i> 56 (2011) 1029-1037. Citat 2 ori	0,418	0,418		
Total		154,453	154,453	73,707	62,203

*calitatea de autor de corespondență

Data: 30.04.2025

Semnătura:

Anghel



30. 04. 2025

Angel