



ACADEMIA ROMÂNĂ
SCOSAAR

Anexa nr.3

AVIZAT,

Director ȘCOALA DOCTORALĂ

CSI Dr. Habiț Marcela Mihai



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

Categorie: Habilitare	N _{max} (*)	FIC (**)	FIC _D (***)	FIC _{AP} (****)	FIC _{AC} (*****)	H index
Cerințe	50	100	70	50	25	13
Realizat	N=39	223,080	206,861	188,863	154,144	25

NB: Factorii de impact (FI) considerați la data publicării articolelor

(*) N_{max} – primele maxim N lucrări, organizate în ordinea descrescătoare a factorilor de impact a revistelor în care au fost publicate;

(**) FIC – factorul de impact cumulat din cele N lucrări (publicații) luate în considerație;

(***) FIC_D – factorul de impact cumulat din publicații în domeniile de cercetare declarate;

(****) FIC_{AP} – factorul de impact cumulat din publicații în calitate de autor principal;

(*****) FIC_{AC} – factorul de impact cumulat din publicații în calitate de autor de corespondență.

Candidat: CSII Dr. Petronela Pascariu

Data: 19.01.2026

Semnătura:



*se va alege una dintre variante



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FIȘA DE VERIFICARE

a îndeplinirii standardelor IOSUD

N	Articole in reviste cu factor de impact (FI)	FIC	FIC _D	FIC _{AP}	FIC _{AC}
1.	M. Homocianu, P. Pascariu* , Electrospun polymer-inorganic nanostructured materials and their applications, Polymer Reviews 60 (3) (2020) 493–541; https://doi.org/10.1080/15583724.2019.1676776	13,282	13,282	13,282	13,282
2.	P. Samoila, C. Cojocaru, L. Sacarescu, P. Pascariu Dorneanu , A.A. Domocos, A. Rotaru, Remarkable catalytic properties of rare-earth doped nickel ferrites synthesized by sol-gel auto-combustion with maleic acid as fuel for CWPO of dye, Applied Catalysis B: Environmental 202, (2017) 21–32; https://doi.org/10.1016/j.apcatb.2016.09.012	11,698	11,698	0	0
3.	P. Pascariu* , C. Cojocaru, M. Homocianu, P. Samoila, Tuning of Sm ³⁺ and Er ³⁺ -doped TiO ₂ nanofibers for enhancement of the photocatalytic performance: Optimization of the photodegradation conditions, Journal of Environmental Management 316 (2022) 115317; https://doi.org/10.1016/j.jenvman.2022.115317	8,700	8,700	8,700	8,700
4.	M. Homocianu, P. Pascariu* , High-performance photocatalytic membranes for water purification in relation to environmental and operational parameters, Journal of Environmental Management 311, 114817 (2022) 1–20; https://doi.org/10.1016/j.jenvman.2022.114817	8,700	8,700	8,700	8,700
5.	P. Pascariu , A. Dascalu, A. Bele, C.P. Constantin, Electrochemical and electronic properties of electrospun NiO–SnO ₂ nanofibers: Influence of heterojunction	7,900	7,900	7,900	0



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	composition on energy storage behavior, <i>Journal of Power Sources</i> 662 (2026) 238721; https://doi.org/10.1016/j.jpowsour.2025.238721				
6.	P. Pascariu* , C. Cojocaru, V. Ciornea, C. Romanitan, A.B. Serban, Visible light-responsive Ce-doped ZnO ceramic nanostructures as effective photocatalysts for removal of persistent organic pollutants from contaminated waters, <i>Materials Today Sustainability</i> 26 (2024) 100719; https://doi.org/10.1016/j.mtsust.2024.100719	7,900	7,900	7,900	7,900
7.	C. Cojocaru, P. Pascariu* , C. Romanitan, M. Sillion, P. Samoila, Andreea B. Serban, Intensification of organic pollutant degradation under visible light irradiation using ZnO nanostructured photocatalysts doped with praseodymium, <i>Applied Surface Science</i> 661 (2024) 160042; https://doi.org/10.1016/j.surfin.2024.104536	6,700	6,700	6,700	6,700
8.	A.G.M. Popescu, I.V. Tudose, K. Mouratis, C. Romanitan, O. Brincoveanu, C. Pachiu, D. Manica, M. Manica, P. Schiopu, M. Vladescu, O. N. Ionescu, P. Pascariu , E. Koudoumas, M.P. Sucheas, Influence of molybdenum and chromium doping on WO ₃ thin films fabricated by spray pyrolysis: Structural and optical characterization, <i>Surfaces and Interfaces</i> 72 (2025) 107427; https://doi.org/10.1016/j.surfin.2025.107427	6,300	0	0	0
9.	I. Grecu, A.C. Enache, P. Pascariu , A. Bele, P. Samoila, C. Cojocaru, V. Harabagiu, Modified spinel ferrite-based composite membranes with highly proficient photocatalytic activity, <i>Surfaces and Interfaces</i> 51 (2024) 104536; https://doi.org/10.1016/j.surfin.2024.104536	6,300	6,300	0	0
10.	P. Pascariu , D. Vernardou, I.V. Tudose, M. Sucheas, A. Airinei, L. Ursu, S. Bucur, O. Ionescu, E. Koudumas, Tuning electrical properties of polythiophene/nickel	6,289	6,289	6,289	0



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	nanocomposites via fabrication, Materials and Design 182 (2019) 108027; https://doi.org/10.1016/j.matdes.2019.108027				
11.	P. Pascariu* , C. Cojocaru, M. Homocianu, P. Samoila, I. Grecu, A. Bele, New composite membranes based on PVDF fibers loaded with TiO ₂ :Sm nanostructures and reinforced with graphene/graphene oxide for photocatalytic applications, Surfaces and Interfaces 34 (2022) 102382; https://doi.org/10.1016/j.surfin.2022.102382	6,200	6,200	6,200	6,200
12.	P. Pascariu* , C. Cojocaru, P. Samoila, A. Airinei, N. Olaru, A. Rotaru, C. Romanitan, L.B. Tudoran, M. Suche, Cu/TiO ₂ composite nanofibers with improved photocatalytic performance under UV and UV-visible light irradiation, Surfaces and Interfaces 28, 101644 (2022) 1–15; https://doi.org/10.1016/j.surfin.2021.101644	6,200	6,200	6,200	6,200
13.	P. Pascariu* , M. Homocianu, C. Cojocaru, P. Samoila, A. Airinei, M. Suche, Preparation of La doped ZnO ceramic nanostructures by electrospinning – calcination method: Effect of La ³⁺ doping on optical and photocatalytic properties, Applied Surface Science 476 (2019) 16–27; https://doi.org/10.1016/j.apsusc.2019.01.077	6,182	6,182	6,182	6,182
14.	M.P. Suche, E. Petromichelaki, C. Romanitan, M. Androulidaki, A. Manousaki, Z. Viskadourakis, R. Ikram, P. Pascariu , G. Kenanakis, Obtaining nanostructured ZnO onto Si coatings for optoelectronic applications via eco-friendly chemical preparation routes, Nanomaterials 11, 2490 (2021) 1–30; https://doi.org/10.3390/nano11102490	5,719	0	0	0
15.	P. Pascariu* , C. Cojocaru, N. Olaru, P. Samoila, A. Airinei, M. Ignat, L. Sacarescu, D. Timpu, Novel rare earth (RE-La, Er, Sm) metal doped ZnO photocatalysts for degradation of Congo-Red dye: Synthesis, characterization	5,647	5,647	5,647	5,647



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	and kinetic studies, Journal of Environmental Management 239 (2019) 225–234; https://doi.org/10.1016/j.jenvman.2019.03.060				
16.	P. Pascariu , C. Cojocaru, P. Samoila, C. Romanitan, Nd-doped ZnO nanostructures with enhanced photocatalytic performance for environmental protection, International Journal of Molecular Sciences 24 (2023) 6436; https://doi.org/10.3390/ijms24076436	5,600	5,600	5,600	0
17.	P. Pascariu , C. Gherasim, A. Airinei, Metal oxide nanostructures (MONs) as photocatalysts for ciprofloxacin degradation, International Journal of Molecular Sciences 24 (11) (2023) 9564; https://doi.org/10.3390/ijms24119564	5,600	5,600	5,600	0
18.	1 % lanthanide-doped ZnO nanostructures as a versatile approach for state-of-the-art capacitive and resistive humidity sensors; P. Pascariu* , F. Tudorache, C. Romanitan, A.B. Serban, E. Koudoumas, Ceramics International (2025) 51 17090–17100; https://doi.org/10.1016/j.ceramint.2025.01.484	5,600	5,600	5,600	5,600
19.	P. Pascariu* , C. Cojocaru, P. Samoila, N. Olaru, A. Bele, A. Airinei, Novel electrospun membranes based on PVDF fibers embedding lanthanide doped ZnO for adsorption and photocatalytic degradation of dye organic pollutants, Materials Research Bulletin 141 (2021) 111376; https://doi.org/10.1016/j.materresbull.2021.111376	5,600	5,600	5,600	5,600
20.	Lanthanum doping effects on microstructure and properties of nanostructured ZnO, P. Pascariu , O.T. Nedelcu, T. Sandu, C. Romanitan, O. Brincoveanu, C. Pachiu, D. Manica, M. Manica, A.G. M. Popescu, S. Antohe, O.N. Ionescu, M.P. Sucheas, E. Koudoumas, Materials Characterization 224 (2025) 114994;	5,500	5,500	5,500	0



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	https://doi.org/10.1016/j.matchar.2025.114994				
21.	P. Pascariu* , A. Airinei, N. Olaru, I. Petrila, V. Nica, L. Sacarescu, F. Tudorache, Microstructure, electrical and humidity sensor properties of electrospun NiO–SnO ₂ nanofibers, Sensors and Actuators B 222, (2016) 1024–1031; https://doi.org/10.1016/j.snb.2015.09.051	5,401	5,401	5,401	5,401
22.	P. Pascariu* , C. Cojocaru, P. Samoila, A. Airinei, N. Olaru, D. Rusu, I. Rosca, M. Sucheaa, Photocatalytic and antimicrobial activity of electrospun ZnO:Ag nanostructures, Journal of Alloys and Compounds 834 (2020) 155144; https://doi.org/10.1016/j.jallcom.2020.155144	5,316	5,316	5,316	5,316
23.	P. Pascariu* , C. Cojocaru, M. Homocianu, P. Samoila, C. Romanitan, N. Djourellov, Electrospun Sn-doped TiO ₂ : Synthesis, structural, optical and catalytic performance as a function of Sn loading and calcination temperatures, Ceramics International 49 (2023) 10384–10394; https://doi.org/10.1016/j.ceramint.2022.11.219	5,200	5,200	5,200	5,200
24.	P. Pascariu* , C. Cojocaru, M. Homocianu, P. Samoila, A. Dascalu, M. Sucheaa, New La ³⁺ doped TiO ₂ nanofibers for photocatalytic degradation of organic pollutants: Effects of thermal treatment and doping loadings, Ceramics International 48 (2022) 4953–4964; https://doi.org/10.1016/j.ceramint.2021.11.033	5,200	5,200	5,200	5,200
25.	P. Pascariu* , L. Olaru, A. L. Matricala, N. Olaru, Photocatalytic activity of ZnO nanostructures grown on electrospun CAB ultrafine fibers, Applied Surface Science 455 (2018) 61–69; https://doi.org/10.1016/j.apsusc.2018.05.119	5,155	5,155	5,155	5,155
25.	P. Pascariu* , I.V. Tudose, M. Sucheaa, E. Koudoumas, N. Fifere, A. Airinei, Preparation				



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	and characterization of Ni, Co doped ZnO nanoparticles for photocatalytic applications, Applied Surface Science 448 (2018) 481–488; https://doi.org/10.1016/j.apsusc.2018.04.124	5,155	5,155	5,155	5,155
27.	P. Pascariu* , N. Olaru, A. Rotaru, A. Airinei, Innovative low cost carbon/ZnO hybrid materials with enhanced photocatalytic activity towards organic pollutant dyes removal, Nanomaterials 10/1873 (2020) 1–18; https://doi.org/10.3390/nano10091873	5,076	5,076	5,076	5,076
28.	P. Pascariu* , M. Homocianu, N. Olaru, A. Airinei, O. Ionescu, New electrospun ZnO:MoO ₃ nanostructures: preparation, characterization and photocatalytic performance, Nanomaterials 10/1476 (2020) 1–18; https://doi.org/10.3390/nano10081476	5,076	5,076	5,076	5,076
29.	P. Pascariu* , M. Homocianu, L. Vacareanu, M. Asandulesa, Multi-functional materials based on Cu doped TiO ₂ ceramic fibers with enhanced pseudocapacitive performances and their dielectric characteristics, Polymers 14 (2022) 4739; https://doi.org/10.3390/polym14214739	4,967	4,967	4,967	4,967
30.	P. Pascariu* , C. Cojocaru, A. Airinei, N. Olaru, I. Rosca, E. Koudoumas, M.P. Sucheai, Innovative Ag-TiO ₂ nanofibers offering excellent photocatalytic and antibacterial action, Catalysts 11, 1234 (2021) 1–20; https://doi.org/10.3390/catal11101234	4,501	4,501	4,501	4,501
31.	P. Pascariu Dorneanu* , C. Cojocaru, N. Olaru, P. Samoila, A. Airinei, L. Sacarescu, Electrospun PVDF fibers and a novel PVDF/CoFe ₂ O ₄ fibrous composite as nanostructured sorbent materials for oil spill cleanup, Applied Surface Science 424 (2017) 389–396; https://doi.org/10.1016/j.apsusc.2017.01.177	4,439	4,439	4,439	4,439
32.	P. Pascariu* , M. Homocianu, F. Tudorache, A. Bele, D. Rusu, Enhancing humidity sensitivity properties through RE (Er, La, and	4,200	4,200	4,200	4,200



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	Sm) dopants in TiO ₂ nanofiber composites, Journal of Materials Science 59 (2024) 2712–2727; https://doi.org/10.1007/s10853-024-09362-5				
33.	Design, synthesis and characterization of triphenylamine-based conjugated porous polymers as fluorescent receptors for nitroaromatic derivatives; L. Vacareanu, A.E. Bejan, D. Bejan, P. Pascariu , M.D. Damaceanu, Dyes and Pigments 232 (2025) 112470; https://doi.org/10.1016/j.dyepig.2024.112470	4,200	0	0	0
34.	P. Pascariu , M. Homocianu, ZnO-based ceramic nanofibers: Preparation, properties and applications, Ceramics International 45 (2019) 11158–11173; https://doi.org/10.1016/j.ceramint.2019.03.113	3,830	3,830	3,830	0
35.	P. Pascariu Dorneanu* , A. Airinei, N. Olaru, N. Fifere, C. Doroftei, F. Iacomi, Preparation and characterization of some electrospun polysulfone nanocomposites reinforced with Ni doped SnO ₂ nanoparticles, European Polymer Journal 91 (2017) 326–336; https://doi.org/10.1016/j.eurpolymj.2017.04.004	3,741	3,741	3,741	3,741
36.	P. Pascariu* , A. Airinei, M. Grigoras, L. Vacareanu, F. Iacomi, Metal–polymer nanocomposites based on Ni nanoparticles and polythiophene obtained by electrochemical method, Applied Surface Science 352, (2015) 95–102; https://doi.org/10.1016/j.apsusc.2015.03.063	3,150	3,150	3,150	3,150
37.	P. Pascariu Dorneanu* , A. Airinei, M. Homocianu, N. Olaru, Photophysical and surface characteristics of electrospun polysulfone/nickel fibers, Materials Research Bulletin, 64 (2015) 306–311; https://doi.org/10.1016/j.materresbull.2015.01.012	2,435	2,435	2,435	2,435
38.	P. Pascariu Dorneanu* , A. Airinei, N. Olaru,				

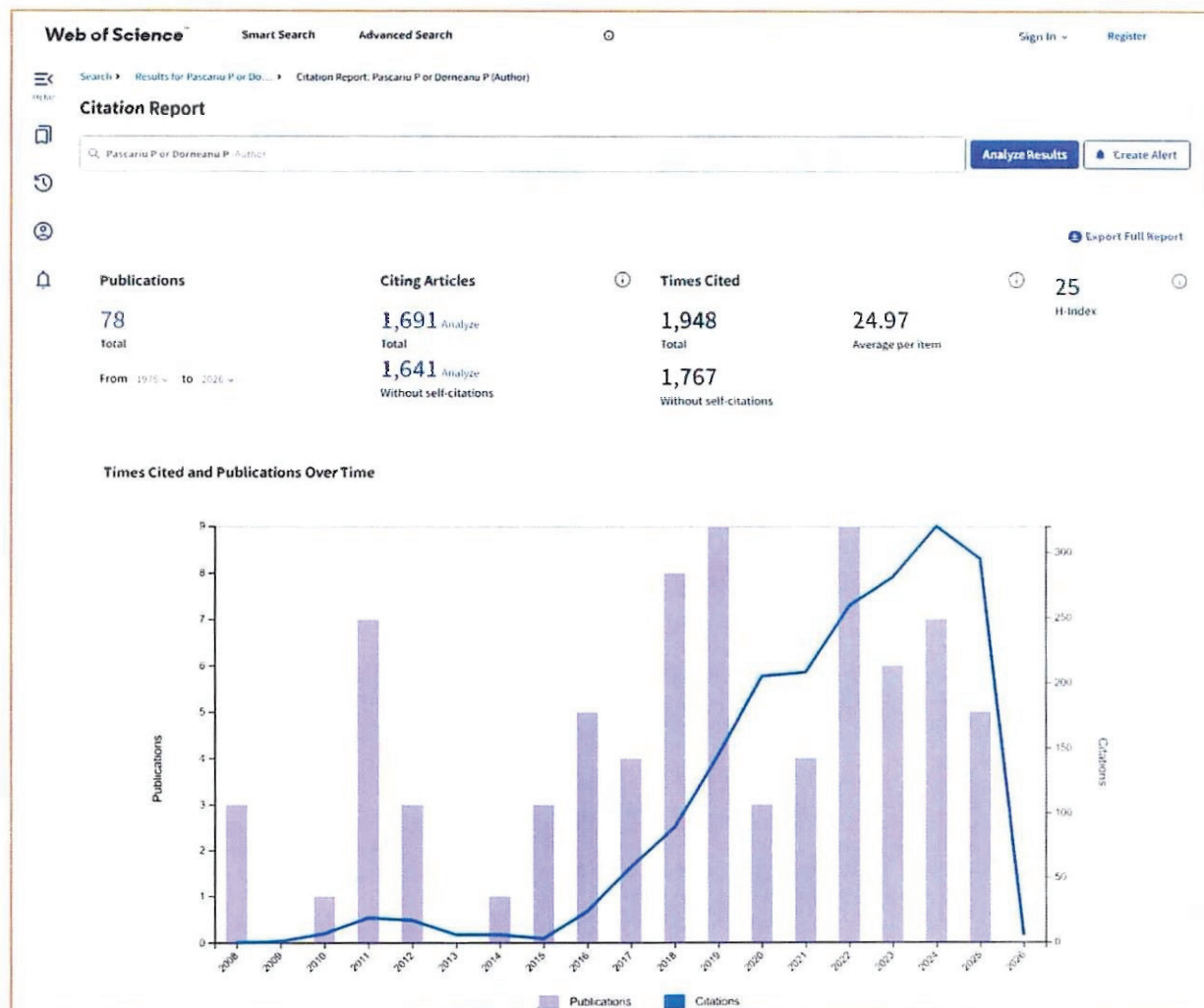


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	M. Homocianu, V. Nica, F. Doroftei, Preparation and characterization of NiO, ZnO and NiO-ZnO composite nanofibers by electrospinning method, Materials Chemistry and Physics, 148 (2014) 1029-1035; https://doi.org/10.1016/j.matchemphys.2014.09.014	2,259	2,259	2,259	2,259
39.	P. Pascariu Dorneanu* , C. Cojocaru, P. Samoila, N. Olaru, A. Airinei, A. Rotaru, Novel fibrous composites based on electrospun PSF and PVDF ultrathin fibers reinforced with inorganic nanoparticles: Evaluation as oil spill sorbents, Polymers for Advanced Technologies 29 (2018) 1435–1446; https://doi.org/10.1002/pat.4255	2,162	2,162	2,162	2,162
TOTAL		223,080	206,861	188,863	154,144



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