ACADEMIA ROMÂNĂ
SCOSAAR

Anexa nr.3

AVIZAT,
Director ȘCOALA DOCTORALĂ
CSI Dr. Habil Marcela Mihai

1. Îndeplinirea standardelor IOSUD superioare standardelor minimale naţionale* [] DA | [] | NU

2. Îndeplinirea standardelor IOSUD egale standardelor minimale naţionale* [] DA | [] | NU

FIŞA 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) consideraţi 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 (publicaţii) luate în consideraţie;
(***) **FIC_D** – factorul de impact cumulat din publicaţii în domeniile de cercetare declarate;
(****) **FIC_{AP}** – factorul de impact cumulat din publicaţii în calitate de autor principal;
(*****) **FIC_{AC}** – factorul de impact cumulat din publicaţii în calitate de autor de corespondenţă.

Candidat: CSII Dr. Petronela Pascariu
Data: 19.01.2026
Semnătura: Petronela

*se va alege una dintre variante

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FIŞA 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

	composition on energy storage behavior, Journal of Power Sources 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, Materials Today Sustainability 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. Silion, P. Samoila, Andreea B. Serban, Intensification of organic pollutant degradation under visible light irradiation using ZnO nanostructured photocatalysts doped with praseodymium, Applied Surface Science 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. Suchea, Influence of molybdenum and chromium doping on WO_3 thin films fabricated by spray pyrolysis: Structural and optical characterization, Surfaces and Interfaces 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, Surfaces and Interfaces 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. Suchea, A. Airinei, L. Ursu, S. Bucur, O. Ionescu, E. Koudumas, Tuning electrical properties of polythiophene/nickel	6,289	6,289	6,289	0

	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. Suchea, 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. Suchea, 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. Suchea, 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

	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. Suchea, E. Koudoumas, Materials Characterization 224 (2025) 114994;	5,500	5,500	5,500	0

	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 nanfibers, 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. Suchea, 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. Djourelov, 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. Suchea, 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. Suchea, E. Koudoumas, N. Fifere, A. Airinei, Preparation				

	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. Suchea, 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/$CoFe_2O_4$ 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

	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,				

	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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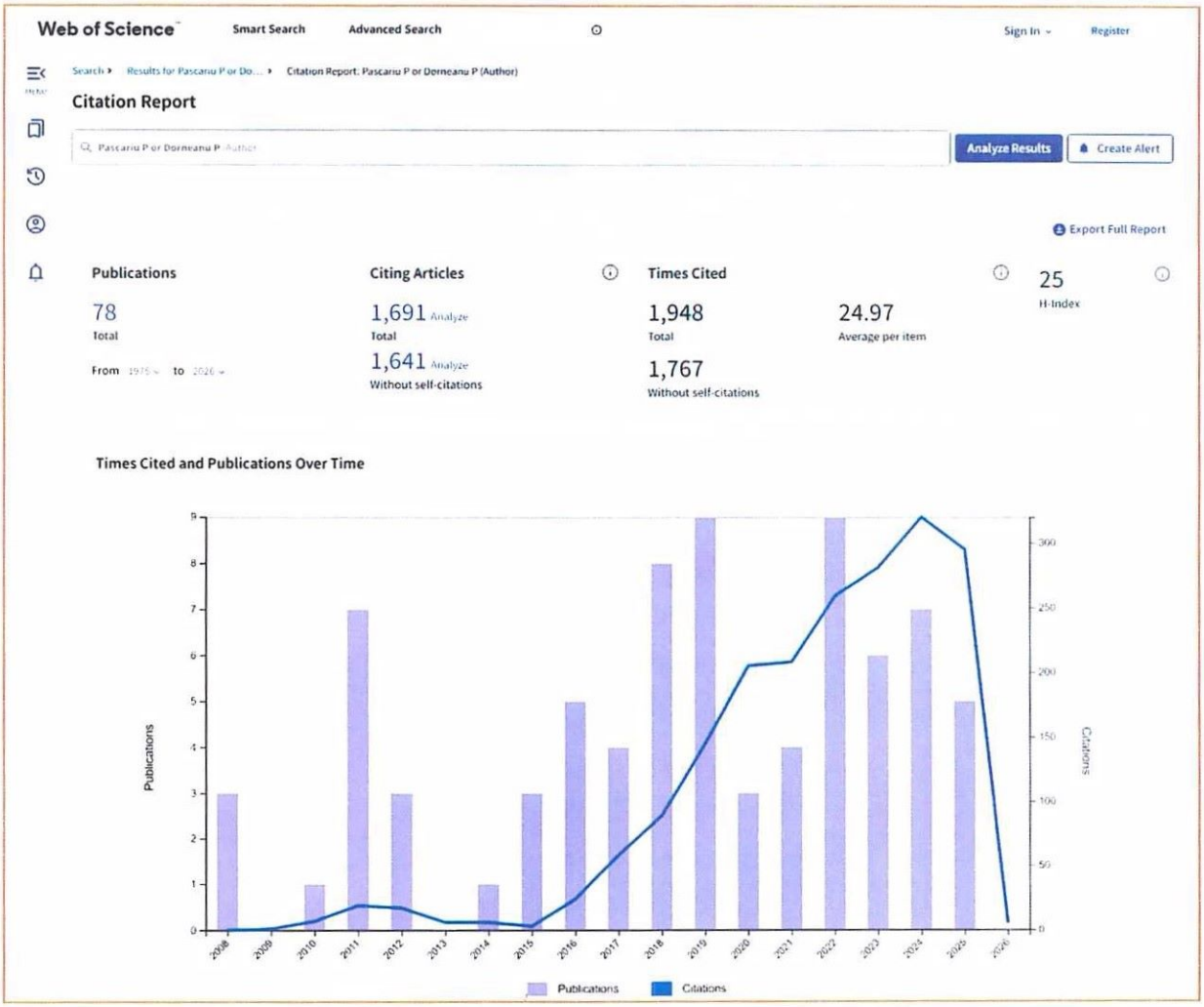

Candidat: CSII Dr. Petronela Pascariu

Data: 19.01.2026

Semnătura: Petronela