

ACADEMIA ROMÂNĂ – Institutul de Chimie Macromoleculară "Petru Poni" Iași
Candidat: CSII dr. Petronela Pascariu

ACTIVITATE ȘTIINȚIFICĂ 2008–2026

Teză de doctorat:

[1]. Contribuții la studiul unor nanostructuri funcționale multistrat, cu aplicații în domeniul spintronicii, autor P. Pascariu, îndrumător: Prof. dr. Violeta Georgescu, Universitatea “Alexandru Ioan Cuza”, Iași, Romania, calificativul: Excelent, OM 3639/2012.

Articole publicate în reviste indexate în baza Web of Science:

Articolele în care sunt autor de corespondență (*)

- [1]. **P. Pascariu**, A. Dascalu, A. Bele, C.P. Constantin, *Electrochemical and electronic properties of electrospun NiO–SnO₂ nanofibers: Influence of heterojunction composition on energy storage behavior*, Journal of Power Sources 662 (2026) 238721, **IF: 7.9 (Q1)**.
- [2]. 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 WO₃ thin films fabricated by spray pyrolysis: Structural and optical characterization*, Surfaces and Interfaces 72 (2025) 107427, **IF: 6.3 (Q1)**.
- [3]. M. Manica, M.P. Suchea, D. Manica, **P. Pascariu***, O. Brincoveanu, C. Romanitan, C. Pachiu, A. Dinescu, R. Muller, S. Antohe, D.M. Manoli, E. Koudoumas, *Morphological and optical properties of RE-doped ZnO thin films fabricated using nanostructured microclusters grown by electrospinning–calcination*, Nanomaterials 15 (2025) 1369, **IF: 4.3 (Q2)**.
- [4]. **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, *Lanthanum doping effects on microstructure and properties of nanostructured ZnO*, Materials Characterization 224 (2025) 114994, **IF: 4.8 (Q1)**.

- [5]. L. Vacareanu, A.E. Bejan, D. Bejan, **P. Pascariu**, M.D. Damaceanu, *Design, synthesis and characterization of triphenylamine-based conjugated porous polymers as fluorescent receptors for nitroaromatic derivatives*, Dyes and Pigments 232 (2025) 112470, **IF: 4.1 (Q1)**.
- [6]. **P. Pascariu***, F. Tudorache, C. Romanitan, A.B. Serban, E. Koudoumas, *1 % lanthanide-doped ZnO nanostructures as a versatile approach for state-of-the-art capacitive and resistive humidity sensors*, Ceramics International 51 (2025) 17090–17100, **IF: 5.6 (Q1)**.
- [7]. I. Grecu, A.C. Enache, **P. Pascariu**, A. Bele, P. Samoila, C. Cojocar, V. Harabagiu, *Modified spinel ferrite-based composite membranes with highly proficient photocatalytic activity*, Surfaces and Interfaces 51 (2024) 104536, **IF: 6.3 (Q1)**.
- [8]. C. Cojocar, **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*, Applied Surface Science 661 (2024) 160042, **IF: 6.9 (Q1)**.
- [9]. **P. Pascariu***, M. Homocianu, F. Tudorache, A. Bele, D. Rusu, *Enhancing humidity sensitivity properties through RE (Er, La, and Sm) dopants in TiO₂ nanofiber composites*, Journal of Materials Science 59 (2024) 2712–2727, **IF: 3.9 (Q2)**.
- [10]. **P. Pascariu***, C. Cojocar, 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, **IF: 7.9 (Q1)**.
- [11]. **P. Pascariu**, C. Gherasim, A. Airinei, *Metal oxide nanostructures (MONs) as photocatalysts for ciprofloxacin degradation*, International Journal of Molecular Sciences 24 (11) (2023) 9564, **IF: 4.9 (Q1)**.
- [12]. **P. Pascariu**, C. Cojocar, P. Samoila, C. Romanitan, *Nd-doped ZnO nanostructures with enhanced photocatalytic performance for environmental protection*, International Journal of Molecular Sciences 24 (2023) 6436, **IF: 4.9 (Q1)**.
- [13]. C. Cojocar, **P. Pascariu**, A.C. Enache, A. Bargan, P. Samoila, *Application of surface-modified nanoclay in a hybrid adsorption-ultrafiltration process for enhanced nitrite ions removal: chemometric approach vs. machine learning*, Nanomaterials 13 (2023) 697, **IF: 4.3 (Q2)**.
- [14]. I. Grecu, P. Samoila, **P. Pascariu**, C. Cojocar, M. Ignat, I.A. Dascalu, V. Harabagiu, *Enhanced photodegradation of organic pollutants by novel samarium-doped zinc aluminium spinel ferrites*, Catalysts 13 (2023) 266, **IF: 4.0 (Q2)**.

- [15]. *P. Pascariu**, C. Cojocaru, M. Homocianu, P. Samoila, C. Romanitan, N. Djourelov, *Electrospun Sn-doped TiO₂: Synthesis, structural, optical and catalytic performance as a function of Sn loading and calcination temperatures*, Ceramics International 49 (2023) 10384–10394 **IF: 5.6 (Q1)**.
- [16]. *P. Pascariu**, M. Homocianu, L. Vacareanu, M. Asandulesa, *Multi-functional materials based on Cu doped TiO₂ ceramic fibers with enhanced pseudocapacitive performances and their dielectric characteristics*, Polymers 14 (2022) 4739, **IF: 4.9(Q1)**.
- [17]. *P. Pascariu**, C. Cojocaru, M. Homocianu, P. Samoila, I. Grecu, A. Bele, *New composite membranes based on PVDF fibers loaded with TiO₂:Sm nanostructures and reinforced with graphene/graphene oxide for photocatalytic applications*, Surfaces and Interfaces 34 (2022) 102382, **IF: 6.3 (Q1)**.
- [18]. *P. Pascariu**, C. Cojocaru, M. Homocianu, P. Samoila, *Tuning of Sm³⁺ and Er³⁺-doped TiO₂ nanofibers for enhancement of the photocatalytic performance: Optimization of the photodegradation conditions*, Journal of Environmental Management 316 (2022) 115317, **IF: 8.4 (Q1)**.
- [19]. C. Gherasim, *P. Pascariu*, M. Asandulesa, M. Dobromir, F. Doroftei, N. Fifere, A. Dascalu, A. Airinei, *Copper oxide nanostructures: Preparation, structural, dielectric and catalytic properties*, Ceramics International 48 (17) (2022) 25556-25568, **IF: 5.6 (Q1)**.
- [20]. B.C. Condurache, P. Samoila, C. Cojocaru, *P. Pascariu*, V. Harabagiu, *Innovative nanostructured magnetite/wool/polysiloxane composite as magnetic adsorbent for oil spill removal*, Comptes Rendus Chimie 25 (no. S3) (2022) 1–16, **IF: 0.6 (Q4)**.
- [21]. M. Homocianu, *P. Pascariu**, *High-performance photocatalytic membranes for water purification in relation to environmental and operational parameters*, Journal of Environmental Management 311 (2022) 114817, **IF: 8.4 (Q1)**.
- [22]. I. Macovei, S.V. Luca, K. Skalicka-Wozniak, L. Sacarescu, *P. Pascariu*, A. Ghilan, F. Doroftei, E.L Ursu, C.M. Rimbu, C.E. Horhoge, C. Lungu, G. Vochita, A.D. Panainte, C. Nechita, M.A. Corciova, A. Miron, *Phyto-functionalized silver nanoparticles derived from conifer bark extracts and evaluation of their antimicrobial and cytogenotoxic effects*, Molecules 27 (2022) 217, **IF: 4.6 (Q2)**.
- [23]. *P. Pascariu**, C. Cojocaru, P. Samoila, A. Airinei, N. Olaru, A. Rotaru, C. Romanitan, L.B. Tudoran, M. Suche, *Cu/TiO₂ composite nanofibers with improved photocatalytic performance under UV and UV-visible light irradiation*, Surfaces and Interfaces 28 (2022) 101644, **IF: 6.3 (Q1)**.

- [24]. **P. Pascariu***, C. Cojocaru, M. Homocianu, P. Samoila, A. Dascalu, M. Suchea, *New La³⁺ doped TiO₂ nanofibers for photocatalytic degradation of organic pollutants: Effects of thermal treatment and doping loadings*, *Ceramics International* 48 (2022) 4953–4964, **IF: 5.6 (Q1)**.
- [25]. **P. Pascariu***, C. Cojocaru, A. Airinei, N. Olaru, I. Rosca, E. Koudoumas, M.P. Suchea, *Innovative Ag-TiO₂ nanofibers offering excellent photocatalytic and antibacterial action*, *Catalysts* 11 (2021) 1234, **IF: 4.0 (Q2)**.
- [26]. 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 (2021) 2490, **IF: 4.3, (Q2)**.
- [27]. C. Cojocaru, A.C. Humelnicu, **P. Pascariu**, P. Samoila, *Artificial neural network and molecular modeling for assessing the adsorption performance of a hybrid alginate-based magsorbent*, *Journal of Molecular Liquids* 337 (2021) 116406, **IF: 5.2, (Q1)**.
- [28]. **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, **IF: 5.7, (Q2)**.
- [29]. **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 (2020) 1873, **IF: 4.3, (Q2)**.
- [30]. **P. Pascariu***, M. Homocianu, N. Olaru, A. Airinei, O. Ionescu, *New electrospun ZnO:MoO₃ nanostructures: preparation, characterization and photocatalytic performance*, *Nanomaterials* 10 (2020) 1476, **IF: 4.3, (Q2)**.
- [31]. **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, **IF: 6.3, (Q1)**.
- [32]. M. Homocianu, **P. Pascariu***, *Electrospun polymer-inorganic nanostructured materials and their applications*, *Polymer Reviews* 60 (3) (2020) 493–541, **IF: 11.9, (Q1)**.
- [33]. **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 nanocomposites via fabrication*, *Materials and Design* 182 (2019) 108027, **IF: 7.9, (Q1)**.

- [34]. *P. Pascariu*, M. Homocianu, *ZnO-based ceramic nanofibers: Preparation, properties and applications*, *Ceramics International* 45 (2019) 11158–11173, **IF: 5.6, (Q1)**.
- [35]. *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 and kinetic studies*, *Journal of Environmental Management* 239 (2019) 225–234, **IF: 8.4, (Q1)**.
- [36]. N. Olaru, N. Anghel, *P. Pascariu**, G. Ailiesei, *Synthesis and testing of cellulose acetate nicotinate as adsorbent for Rhodamine B dye*, *Journal of Applied Polymer Science* 136 (2019) 47772, **IF: 2.8, (Q3)**.
- [37]. *P. Pascariu**, M. Homocianu, C. Cojocaru, P. Samoila, A. Airinei, M. Sucheas, *Preparation of La doped ZnO ceramic nanostructures by electrospinning – calcination method: Effect of La³⁺ doping on optical and photocatalytic properties*, *Applied Surface Science* 476 (2019) 16–27, **IF: 6.9, (Q1)**.
- [38]. *P. Pascariu**, C. Cojocaru, N. Olaru, A. Airinei, *Photocatalytic activity of ZnO-SnO₂ ceramic nanofibers for RhB dye degradation: Experimental design, modeling and process optimization*, *Physica Status Solidi B: Basic Solid State Physics* 1800474 (2019) 1–8, **IF: 1.8, (Q3)**.
- [39]. C. Cojocaru, P. Samoila, *P. Pascariu*, *Chitosan-based magnetic adsorbent for removal of water-soluble anionic dye: Artificial neural network modeling and molecular docking insights*, *International Journal of Biological Macromolecules* 123 (2019) 587–599, **IF: 8.5, (Q1)**.
- [40]. *P. Pascariu*, I.V. Tudose, M. Sucheas, *Surface morphology effects on photocatalytic activity of metal oxides nanostructured materials immobilized onto substrates*, *Journal of Nanoscience and Nanotechnology* 19 (2019) 295–306, **IF: 1.134, (Q4)**.
- [41]. *P. Pascariu**, A. Airinei, M. Asandulesa, A. Rotaru, *Insights into the optical, magnetic and dielectrical properties of some novel polysulfone/NiFe₂O₄ composite materials*, *Polymer International* 67 (2018) 1313–1324, **IF: 3.6, (Q2)**.
- [42]. *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, **IF: 6.3, (Q1)**.
- [43]. *P. Pascariu**, I.V. Tudose, M. Sucheas, 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, **IF: 6.9, (Q1)**.
- [44]. C. Cojocaru, A.C. Humelnicu, P. Samoila, *P. Pascariu*, V. Harabagiu, *Optimized formulation of NiFe₂O₄@Ca-alginate composite as a selective and magnetic adsorbent for cationic dyes: Experimental and modeling study*, *Reactive and Functional Polymers* 125 (2018) 57–69, **IF: 5.1, (Q1)**.

- [45]. *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, **IF: 3.4, (Q2)**.
- [46]. A.C. Humelnicu, C. Cojocaru, *P. Pascariu Dorneanu*, P. Samoila, V. Harabagiu, *Novel chitosan-functionalized samarium-doped cobalt ferrite for adsorptive removal of anionic dye from aqueous solutions*, *Comptes Rendus Chimie* 20 (2017) 1026–1036, **IF: 0.6, (Q4)**.
- [47]. *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 SnO₂ nanoparticles*, *European Polymer Journal* 91 (2017) 326–336, **IF: 6.3, (Q1)**.
- [48]. *P. Pascariu Dorneanu**, C. Cojocaru, N. Olaru, P. Samoila, A. Airinei, L. Sacarescu, *Electrospun PVDF fibers and a novel PVDF/CoFe₂O₄ fibrous composite as nanostructured sorbent materials for oil spill cleanup*, *Applied Surface Science* 424 (2017) 389–396, **IF: 6.9, (Q1)**.
- [49]. C. Cojocaru, *P. Pascariu Dorneanu*, A. Airinei, N. Olaru, P. Samoila, A. Rotaru, *Design and evaluation of electrospun polysulfone fibers and polysulfone/NiFe₂O₄ nanostructured composite as sorbents for oil spill cleanup*, *Journal of the Taiwan Institute of Chemical Engineers* 70 (2017) 267–281, **IF: 6.3, (Q1)**.
- [50]. 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, **IF: 21.1, (Q1)**.
- [51]. M. Homocianu, A. Airinei, *P. Pascariu Dorneanu*, A. M. Ipate, C. Hamciuc, *Impact of medium parameters on the optoelectronic characteristics of a polymer containing bisphenol A and 1,3,4-oxadiazole chromophore group*, *Journal of Luminescence* 176 (2016) 52–57, **IF: 3.6, (Q2)**.
- [52]. *P. Pascariu (Dorneanu)**, A. Airinei, M. Grigoras, N. Fifere, L. Sacarescu, N. Lupu, L. Stoleriu, *Structural, optical and magnetic properties of Ni doped SnO₂ Nanoparticles*, *Journal of Alloys and Compounds* 668 (2016) 65–72, **IF: 6.3, (Q1)**.
- [53]. *P. Pascariu**, A. Airinei, N. Olaru, L. Olaru, V. Nica, *Photocatalytic degradation of Rhodamine B dye using ZnO–SnO₂ electrospun ceramic nan fibers*, *Ceramics International* 42 (2016) 6775–6781, **IF: 5.6, (Q1)**.

- [54]. M. Homocianu, A. Airinei, A.M. Ipate, **P. Pascariu Dorneanu**, C. Hamciuc, *Optical Properties of Some Fluorinated Poly(1,3,4-Oxadiazole-Ether)s in Homogeneous and Heterogeneous Media. Changes Induced by SnO₂, NiO and SnO₂/NiO Mixed-Oxide Nanoparticles*, Journal of Fluorescence 26 (2016) 217–224, **IF: 3.1, (Q2)**.
- [55]. **P. Pascariu***, A. Airinei, N. Olaru, I. Petrila, V. Nica, L. Sacarescu, F. Tudorache, *Microstructure, electrical and humidity sensor properties of electrospun NiO–SnO₂ nanofibers*, Sensors and Actuators B 222 (2016) 1024–1031, **IF: 7.7, (Q1)**.
- [56]. **P. Pascariu***, A. Airinei, M. Grigoras, L. Vacareanu, F. Iacomì, *Metal–polymer nanocomposites based on Ni nanoparticles and polythiophene obtained by electrochemical method*, Applied Surface Science 352 (2015) 95–102, **IF: 6.9, (Q1)**.
- [57]. **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, **IF: 5.7, (Q2)**.
- [58]. **P. Pascariu Dorneanu**, M. Homocianu, I. R. Tigoianu, A. Airinei, M. Zaltariov, M. Cazacu, *Solvent effects on the photophysical properties of poly[1,4 dihydroxyanthraquinoneimine-1,3-bis(phenylene-ester)methylene] tetramethyldisiloxane*, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 134 (2015) 218–224, **IF: 4.6, (Q1)**.
- [59]. **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, **IF: 4.7, (Q2)**.
- [60]. M. Poiana, L. Vlad, **P. Pascariu**, A. V. Sandu, V. Nica, V. Georgescu, *Effects of current density on morphology and magnetic properties of Co–TiO₂ electrodeposited nanocomposite films*, Optoelectronics and Advanced Materials - Rapid Communications (OAM-RC) 6 (2012) 343–440, **IF: 0.4, (Q4)**.
- [61]. **P. Pascariu***, P. Postolache, A. Stancu, V. Georgescu, *Experimental and micromagnetic first-order reversal curves analysis in [Ni–Fe/Zn/Co–Ni–N/Ni–Mn] spin valves*, Journal of Superconductivity and Novel Magnetism 25 (2012) 481–486, **IF: 1.7, (Q3)**.
- [62]. **P. Pascariu***, D. Pinzaru, S. I. Tanase, A. V. Sandu, V. Georgescu, *Preparation and magnetic properties of electrodeposited [Co/Zn] multilayer films*, Materials Chemistry and Physics 131 (2012) 561–568, **IF: 4.7, (Q2)**.

- [63]. *P. Pascariu**, S. I. Tanase, D. Tanase, V. Georgescu, *Microstructure, magnetic and magnetoresistance properties of electrodeposited [Co/Zn]₅₀ multilayers*, Journal of Superconductivity and Novel Magnetism 24 (2011) 1917–1923, **IF: 1.7, (Q3)**.
- [64]. *P. Pascariu**, S. I. Tanase, D. Tanase, V. Georgescu, *Magnetic and magneto-transport properties of granular [Ni-Fe/Zn/Co-Ni-N/Ni-Mn] spin valves*, Digest Journal of Nanomaterials and Biostructures 6 (2011) 1103–1110, **IF: 1.3, (Q4)**.
- [65]. *P. Pascariu**, V. Georgescu, *Magnetoresistance induced by spin transfer torque in electrodeposited granular multilayers based on Co/Zn system*, Optoelectronics and Advanced Materials - Rapid Communications (OAM-RC) 5 (2011) 836–841, **IF: 0.4, (Q4)**.
- [66]. L. Vlad, *P. Pascariu*, S. I. Tanase, D. Pinzaru, M. Dobromir, V. Nica, V. Georgescu, *Magnetic properties and structure of electrodeposited Zn–Co alloys granular thin films*, Physica B 406 (2011) 1481–1487, **IF: 2.8, (Q2)**.
- [67]. I. Tanase, D. Pinzaru (Tanase), *P. Pascariu*, M. Dobromir, A. V. Sandu, V. Georgescu, *Effect of nitrogen addition on the morphology, magnetic and magnetoresistance properties of electrodeposited Co, Ni and Co-Ni granular thin films onto aluminum substrates*, Materials Chemistry and Physics 130 (2011) 327–333, **IF: 4.7, (Q2)**.
- [68]. D. Pinzaru (Tanase), S.I. Tanase, *P. Pascariu*, L. Vlad, C. Pirghie, V. Georgescu, *Microstructure, magnetic and magnetoresistance properties of electrodeposited [Fe/Pt] granular multilayers*, Journal of Superconductivity and Novel Magnetism 24 (2011) 2145–2152, **IF: 1.7, (Q3)**.
- [69]. Pinzaru (Tanase), S.I. Tanase, *P. Pascariu*, A. V. Sandu, V. Nica, V. Georgescu, *Magnetic properties and giant magnetoresistance effect in [Fe/Pt]_n granular multilayers*, Optoelectronics and Advanced Materials - Rapid Communications (OAM-RC) 5 (2011) 235–241, **IF: 0.4, (Q4)**.
- [70]. S.I. Tanase, D. Tanase, *P. Pascariu*, L. Vlad, A.V. Sandu, V. Georgescu, *Tunneling magnetoresistance in Co–Ni–N/Al granular thin films*, Materials Science and Engineering B 167 (2010) 119–123, **IF: 4.6, (Q2)**.
- [71]. N. Lupu, H. Chiriac, *P. Pascariu*, *Electrochemical deposition of FeGa/NiFe magnetic multilayered films and nanowire arrays*, Journal of Applied Physics 103 (2008) 07B511, **IF: 2.5, (Q3)**.
- [72]. H. Chiriac, T. A. Óvári, *P. Pascariu*, *Phenomenological model for the simulation of hysteresis loops in NiFe/Cu multilayered nanowires*, Journal of Applied Physics 103 (2008) 07D919, **IF: 2.5, (Q3)**.

[73]. N. Lupu, **P. Pascariu**, C. Gherasim, H. Chiriac, *Magnetic and magnetoelastic properties of electrodeposited FeGa/CoFeB multilayered films and nanowire arrays*, IEEE Transactions Magnetics 44 (2008) 3005–3008, **IF: 1.9, (Q3)**.

Articole publicate în reviste de specialitate din străinătate (reviste necotate ISI):

[1]. **P. Pascariu**, I.V. Tudose, D. Vernardou, E. Koudoumas, O.N. Ionescu, S. Bucur, M. Suchea, *SnO₂ and Ni doped SnO₂/polythiophene nanocomposites for gas sensing applications*, Solid State Electronics Letters 2 (2020) 85–91.

Article non-ISI:

[1]. E.V. Buta, **P. Pascariu**, F. Prihor, L. Vlad, V. Pohoată, R. Apetrei, D. Luca, A. Nastuță, I. Alupoai, D. Mardare, „Characterization of Sputtered TiO₂ Thin Films”, Analele Științifice Ale Universității “AL. I. Cuza” Iași, Biofizică, Fizică medicală și Fizica mediului, 5, 5-10, (2008).

[2]. Victoria-Mariana Constantin, Petronela Pascariu, Lavinia Vlad, Violeta Georgescu, „Studiul efectului Hall extrordinar in multistraturi magnetice de [Co/Pt]_n”, Revista stiintifica „V. Adamachi” , 27 (1), 57-59 (2009).

[3]. **P. Pascariu (Dorneanu)**, A. Airinei, M. Homocianu, N. Olaru, L. Stoleriu, Preparation and characterization of polysulfone (PSU) nanofibers containing Ni nanoparticles by electrospinning method, Proceedings of the 2th CommScie International Conference, ‘Challenges for Sciences and Society in Digital Era’ Iasi, 4-5 December 2015.

[4]. **P. Pascariu**, I. V. Tudose, C. Pachiu, M. Danila, O. Ionescu, M. Popescu, E. Koudoumas, N. Olaru, M. Suchea, Graphene and TiO₂ - PVDF nanocomposites for potential applications in triboelectronics, Proceedings of the 41st International Semiconductor Conference (CAS) 10-12 Oct. 2018, Sinaia, Romania, 237-240 (2018).

[5]. I. V. Tudose, **P. Pascariu**, C. Pachiu, M. Danila, R. Gavrilă, E. Koudoumas, M. Suchea, Comparative study of Sm and La doped ZnO properties, Proceedings of the 41st International Semiconductor Conference (CAS) 10-12 Oct. 2018, Sinaia, Romania, 245-248 (2018).

- [6]. C. Pachiu, **P. Pascariu**, I. V. Tudose and M. P. Sucnea, A Raman spectroscopy focused study of the metal dopant effect on ZnO nanostructured thin films, Proceedings of the 45st International Semiconductor Conference (CAS) 12-14 Oct. 2022, Sinaia, Romania, 239-242 (2022).
- [7]. **P. Pascariu**, C. Romanitan, O. Brincoveanu, C. Pachiu, D. Manica, M. Manica, A. Popescu, T. Sandu, O. Nedelcu, O.N. Ionescu, M. P. Sucnea, E. Koudoumas, Growth of nanostructured Lanthanum doped ZnO by electrospinning calcination, Proceedings of the 47st International Semiconductor Conference (CAS) 9-11 Oct. 2024, Sinaia, Romania, 61-64 (2024).
- [8]. A.G.M. Popescu, I.V. Tudose, C. Romanitan, O. Brincoveanu, R. Gavrilă, M. Manica, C. Pachiu, P. Schiopu, M. Vladescu, **P. Pascariu**, M.P. Sucnea, Mo dopant concentration effect on nanostructured WO₃ thin films grown by spray deposition surface properties, Proceedings of the 47st International Semiconductor Conference (CAS) 9-11 Oct. 2024, Sinaia, Romania, 171-174, (2024).
- [9]. I.V. Tudose, P. Pascariu, O. Brîncoveanu, C. Romanitan, D.M. Manoli, M.P. Șucnea, Electrospun nanofibers for use in antibacterial applications, Proceedings of the 48st International Semiconductor Conference (CAS) 7-11 Oct. 2025, Sinaia, Romania, 43-46, (2025).

Capitole în cărți (edituri străine consacrate):

- [1]. **P. Dorneanu**, A. Airinei, N. Olaru, *Advances In Polymer Nanofibers Containing Metal Oxide Nanoparticles*, In Intelligent Polymers for Nanomedicine and Biotechnologies, Magdalena Aflori (editor), Ed., CRC Press, Boca Raton, FL, USA, 23–44 (2017) ISBN: 9781138746459.
- [2]. **P. Pascariu**, A. Airinei, F. Iacomì, S. Bucur, M. Sucnea, *Electrospun TiO₂ based nanofibers composites and their bio-related and environmental applications*, Functional Nanostructured Interfaces for Environmental and Biomedical Applications, Valentina Dinca and Mirela Sucnea (editors), Eds., Elsevier, Amsterdam, 307–321 (2019) ISBN: 9780128144015.
- [3]. **P. Pascariu**, E. Koudoumas, V. Dinca, L. Rusen, M.P. Sucnea, *Applications of metallic nanostructures in biomedical field*, Functional Nanostructured Interfaces for Environmental and Biomedical Applications, Valentina Dinca and Mirela Sucnea (editors), Eds., Elsevier, Amsterdam, 341–361 (2019) ISBN: 9780128144015.
- [4]. I.V. Tudose, F. Comanescu, **P. Pascariu**, S. Bucur, L. Rusen, F. Iacomì, E. Koudoumas, M. Sucnea, *Chemical and physical methods for multifunctional nanostructured interfaces fabrication*, Functional

Nanostructured Interfaces for Environmental and Biomedical Applications, Valentina Dinca and Mirela Suchea (editors), Eds., Elsevier, Amsterdam, 15–26 (2019) ISBN: 9780128144015.

[5]. I.V. Tudose, E. Koudoumas, C. Pachi, F. Comanescu, V. Dinca, L. Rusen, **P. Pascariu**, M. Suchea, *Graphene based materials and their biomedical and environmental applications –Recent advances*, Functional Nanostructured Interfaces for Environmental and Biomedical Applications, Valentina Dinca and Mirela Suchea (editors), Eds., Elsevier, Amsterdam, 243–257 (2019) ISBN: 9780128144015.

[6]. I.V. Tudose, N. Vrinceanu, C. Pachi, S. Bucur, **P. Pascariu**, L. Rusen, E. Koudoumas, M. Suchea, *Nanostructured ZnO based materials for biomedical and environmental applications*, Functional Nanostructured Interfaces for Environmental and Biomedical Applications, Valentina Dinca and Mirela Suchea (editors), Eds., Elsevier, Amsterdam, 285–305 (2019) ISBN: 9780128144015.

[7]. M. Suchea, I.V. Tudose, **P. Pascariu**, E. Koudoumas, *Carbon based nanocomposites for EMI Shielding –Recent Advances*, Materials for Potential EMI Shielding Applications, Joseph Kuruvilla, Wilson Runcy and George Gejo (editors), Elsevier, 201-211 (2020) ISBN: 9780128175903.

[8]. **P. Pascariu**, C. Cojocaru, *Innovative materials produced by the electrospinning-calcination method for advanced oxidation: kinetic and empirical modeling*, Fundamental and Biomedical Aspects of Redox Processes (Eds. IGI Global) 250-277 (2023).

Participări la manifestări științifice internaționale (prezentări invitate):

[1]. **P. Pascariu**, A. Airinei, N. Olaru, Photocatalytic metal-oxide nanofibers fabricated by electrospinning, The 2nd International Workshop (AdvPhotoCat-E 2017), Heraklion, Crete-Grecia, July 14–16, 2017.

[2]. M. Suchea, C. Pachi, F. Comanescu, **P. Pascariu**, M. Popescu, I. V. Tudose, E. Koudoumas, Raman microscopy and spectroscopy studies of graphene/TiO₂/PVDF composite fibers, 11th International Conference On Physics Of Advanced Materials (ICPAM-12), Heraklion, Crete-Grecia, Septemeber 22-28, 2018.

[3]. **P. Pascariu**, C. Cojocaru, A. Airinei, M. Suchea, PVDF fibers embedding lanthanide doped ZnO membranes for adsorption and photocatalytic degradation of dye organic pollutants (invited presentation), The 3rd International Workshop Advances on Photocatalysis (AdvPhotoCat-EE2021), Online event, Bucharest, România, June 28–29, 2021,

- [4]. **P. Pascariu**, E. Koudoumas Rare earth doped metal oxide nanostructures as photocatalysts for pollutants degradation (invited presentation), The 4th International Workshop Advances on Photocatalysis including Environmental and Energy Applications (AdvPhotoCat-EE2023), Heraklion, Crete-Grecia, July 25-28, 2023.
- [5]. **P. Pascariu**, C. Romanitan, M. Sucheai, E. Koudoumas, Recent advances in metal-doped ZnO-based nanostructures as photocatalysts for the removal of organic pollutants, (invited presentation), 15th International Conference on Physics of Advanced Materials-ICPAM-15, (hybrid edition), Sharm El Sheikh, Egypt, 19-26 November, 2023.
- [6]. **P. Pascariu**, Advances in metal oxide nanostructures fabricated via electrospinning-calcination: Unveiling the potential for photocatalytic applications, 16th International Conference on Physics of Advanced Materials-ICPAM-16, (hybrid edition), Antalya, Turkey, 7-15 September, 2024.
- [7]. **P. Pascariu**, C. Cojocaru, Innovative metal oxide semiconductor-based catalysts obtained by the electrospinning-calcination method for visible-light-driven photocatalysis applications, 17th International Conference on Physics of Advanced Materials-ICPAM-17, (hybrid edition), Hamamatsu, Japan, 16 – 23 November, 2025.

Comunicări - manifestări științifice internaționale:

- [1]. N. Lupu, H. Chiriac, **P. Pascariu**, Electrochemical deposition of FeGa/NiFe and FeGa/CoFeB magnetic multilayered films and nanowire arrays, 6th International Workshop on Electrodeposited Nanostructured – EDNANO-6, 27-29 NovemberBrendorf, Austria, 2008.
- [2]. H. Chiriac, **P. Pascariu**, C. Gherasim, M. Grigoras, G. Ababei, N. Lupu, Magnetic and magnetotransport properties of single and multilayered magnetic nanowires, 6th International Workshop on Electrodeposited Nanostructured– EDNANO-6, 27-29 November, Brendorf, Austria, 2008.
- [3]. A.C. Humelnicu, C. Cojocaru, P. Samoila, **P. Pascariu (Dorneanu)**, Valeria Harabagiu, Alginate/spinel ferrite composite as magnetic adsorbent for environmental applications, 12th International Conference on Colloid and Surface Chemistry, ICCSC'2016, May 16-18, Romania, 2016.
- [4]. C. Cojocaru, **P. Pascariu Dorneanu**, P. Samoila, L. Pricop, L. Sacarescu, Evaluation of polymer-based fibrous materials as oil pill sorbents: experimental design, modeling and optimization, 9th Cristofor I. Simionescu Symposium Frontiers in Macromolecular and Supramolecular Science, 12 – 14 June, Romania, 2017.

- [5]. **P. Pascariu**, A. L. Vasiliu, N. Olaru, Zinc oxide nanocrystals growth on cellulose acetate butyrate ultrafine fiber mats for photocatalytic degradation of organic dyes, 9th Cristofor I. Simionescu Symposium Frontiers in Macromolecular and Supramolecular Science, 12 – 14 June, Romania, 2017.
- [6]. A.C. Humelnicu, C. Cojocaru, **P. Pascariu Dorneanu**, P. Samoila, V. Harabagiu, Removal of anionic dye by novel chitosan functionalized samarium doped cobalt ferrite, 9th Cristofor I. Simionescu Symposium Frontiers in Macromolecular and Supramolecular Science, 12 – 14 June, Romania, 2017.
- [7]. **P. Pascariu**, I.V. Tudose, C. Pachiu, M. Danila, O. Ionescu, B. Bitu, E. Koudoumas, Mirela Sucheai, Electrospinning fabricated novel graphene and TiO₂ - PVDF nanocomposites, Expert Evaluation and Control of Compounds of Semiconductor Materials and Technologies, 14-16 May, Bucharest, Romania, 2018.
- [8]. **P. Pascariu**, I. V. Tudose, C. Pachiu, M. Danila, R. Gavrilă, E. Koudoumas, M. Sucheai, Comparative study of structural and optical properties of Sm and La doped ZnO, Workshop on Compound Semiconductor Devices and Integrated Circuits held in Europe, 16-18 May, Bucharest, Romania, 2018.
- [9]. **P. Pascariu**, M. Sucheai, Evaluation of fibrous composites based on synthetic polymers reinforced with anorganic nanoparticles as oil spill sorbents, 11th International Conference On Physics Of Advanced Materials (ICPAM-12), Heraklion, Crete-Greece, September 22-28, 2018.
- [10]. C. Cojocaru, **P. Pascariu**, P. Samoila, Polymeric materials with fibrous morphology as sorbents for oil spill cleanup, 18th National Seminar on Nanoscience and Nanotechnology, Iasi, Romania, October 24-25, 2019.
- [11]. M. Sucheai, **P. Pascariu**, E. Koudoumas, Composite nanofibers for improved photocatalytic performance under UV and visible light irradiation, 3rd Webinar on Catalysis, Chemical Engineering & Technology, Online event, British Time, June 24–25, 2021.
- [12]. **P. Pascariu**, C. Cojocaru, M. Homocianu, P. Samoila, M. Sucheai, New La doped TiO₂ nanofibers for photocatalytic degradation of dye and drug: the effect of thermal treatment and La doping amount, The 3rd International Workshop Advances on Photocatalysis (AdvPhotoCat-EE2021), Bucharest, România, June 28–29 (Online event), 2021.
- [13]. **P. Pascariu**, C. Cojocaru, M. Sucheai, 1D-lanthanides (La, Sm, Er) doped TiO₂ photocatalysts for degradation of organic pollutions, 13th International Conference on Physics of Advanced Materials (ICPAM-13), Sant Feliu de Guixols, Costa Brava, Spain, September 24-30 (hybrid event), 2021.

- [14]. L.B. Tudoran, C. Romanitan, **P. Pascariu**, M. P. Sucnea, Structural characterization of rare-earths doped TiO₂ nanofibers, 13th International Conference on Physics of Advanced Materials (ICPAM-13), Sant Feliu de Guixols, Costa Brava, Spain, September 24-30 (hybrid event), 2021.
- [15]. **P. Pascariu**, M. Homocianu, Electrospun Cu doped TiO₂ nanofiber composites with high photocatalytic activity, New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection, Timișoara, România, October 7-8 (online event), 2021.
- [16]. **P. Pascariu**, Preparation and characterization of new membrane-based on PVDF fibers loaded with TiO₂:Sm reinforced with graphene/graphene oxide for wastewater cleaning, 14th International Conference on Physics of Advanced Materials (ICPAM-14), Dubrovnik, Croatia, September 8-15 (hybrid event) 2022.
- [17]. **P. Pascariu**, L. Georgescu, E. Koudoumas, M.P. Sucnea, Electrospinning of TiO₂ based semiconductor nanofibers with enhanced photocatalytic properties, 36th Panhellenic Conference on Solid State Physics and Materials Science, Heraklion, Crete, Greece, September 26-28, 2022.
- [18]. **P. Pascariu**, P. Samoilă, C. Cojocaru, Sn doped TiO₂ composite nanofibers with improved photocatalytic performance under visible light irradiation for water purification, 5th International Conference on Emerging Technologies in Materials Engineering, Bucharest, Romania, October 20-21 (online event), 2022.
- [19]. M.P. Sucnea, I.V. Tudose, **P. Pascariu**, C. Romanitan, O. Brincoveanu, C. Pachi, E. Koudoumas, Nanostructured photocatalysts integration in composites for environmental applications, Applications of Chemistry in Nanosciences and Biomaterials Engineering, NanoBioMat 2022 – Winter Edition Bucharest, Romania, 24-26 November (online event), 2022.
- [20]. **P. Pascariu**, M. Sucnea, Metal-doped TiO₂ composite nanofibers with improved photocatalytic performance for degradation of organic pollutants, 7th International Conference on Catalysis and Chemical Engineering, Las Vegas, Nevada, USA, 20-22 February, (hybrid event), 2023.
- [21]. **P. Pascariu**, M. Sucnea, E. Koudoumas, Influence of calcination temperature and doping amount on the morphological and functional properties of metal modified TiO₂ nanostructures, 46th International Semiconductor Conference-CAS 2023, Sinaia, Romania, 11-13 October, 2023.
- [22]. C. Romanitan, C. Cojocaru, L.B. Tudoran, N. Djourellov, **P. Pascariu**, Rietveld refinement of X-ray diffraction patterns in photocatalytic metal oxides, The 4th International Workshop Advances on

Photocatalysis including Environmental and Energy Applications-AdvPhotoCat-EE2023, (hybrid edition), Heraklion, Greece, during 25-28 July 2023.

[23]. M. Sucheai, **P. Pascariu**, I.V. Tudose, E. Koudoumas, Nanostructured photocatalysts materials with germicide activity, The 4th International Workshop Advances on Photocatalysis including Environmental and Energy Applications-AdvPhotoCat-EE2023, (hybrid edition), Heraklion, Greece, during 25-28 July 2023.

[24]. **P. Pascariu**, C. Pachiu, C. Romanitan, O. N. Ionescu, T. Sandu, M. Gologanu, I.V. Tudose, M. Sucheai, E. Koudoumas, Novel ZnO:RE/graphene nanocomposite with enhanced electrical and dielectric properties, 46th International Semiconductor Conference-CAS 2023, Sinaia, Romania, 11-13 October, 2023.

[25]. T. Sandu, M. Gologanu, M. Sucheai, O.T. Nedelcu, **P. Pascariu**, E. Koudoumas, A homogenisation technique describing the radiofrequency behavior of rare-earth doped ZnO/graphene nanocomposites, 15th International Conference on Physics of Advanced Materials-ICPAM-15, (hybrid edition), Sharm El Sheikh, Egypt, 19-26 November, 2023.

[26]. C. Pachiu, **P. Pascariu**, C. Romanitan, O. N. Ionescu, T. Sandu, M. Gologanu, I. V. Tudose, M.P. Sucheai, E. Koudoumas, Nanocomposite RE:ZnO/Graphene with enhanced electrical and dielectric properties, 5th International Conference on Physics of Advanced Materials-ICPAM-15, (hybrid edition), Sharm El Sheikh, Egypt, 19-26 November, 2023.

[27]. C. Romanitan, N. Gogneau, L. Travers, M. Tchernycheva, P. Pascariu, I. Mihalache, Photodegradation of methylene blue under visible light using GaN nanowires grown by PA-MBE, European Workshop on Innovative and Advanced Epitaxy, Vilnius, Lithuania, June 11-14, 2024.

[28]. P. Pascariu, Tuning the photocatalytic performances by doping control of Pr into ZnO nanostructures for removal of organic pollutants, 7th International Conference on Emerging Technologies in Materials Engineering-EMERGEMAT, Bucharest, Romania, 30- 31 October (hybrid event), 2024.

[29]. A.G.M. Popescu, I. V. Tudose, C. Romanitan, O. Brincoveanu, R. Gavrilă, M. Manica, C. Pachiu, P. Schiopu, M. Vladescu, **P. Pascariu**, M.P. Sucheai, Mo dopant concentration effect on nanostructured WO₃ thin films grown by spray deposition surface properties, 47th International Semiconductor Conference-CAS 2024, Sinaia, Romania, 9 -11 October, 2024.

[30]. **P. Pascariu**, C. Cojocaru, Enhanced photocatalytic performance of electrospun rare earth-doped ZnO nanostructures, 8th International Conference on Emerging Technologies in Materials Engineering-EMERGEMAT, Pantelimon, Ilfov, Romania, 6-7 October (hybrid event), 2025.

- [31]. **P. Pascariu**, C. Romanitan, O. Brincoveanu, M. Asandulesa, M. Sucheana, E. Koudoumas, Optical and dielectric properties of ZnO semiconductors, 48th International Semiconductor Conference-CAS 2025, Sinaia, Romania, 7-11 October, 2025.
- [32]. Electrospun nanofibers for use in antibacterial applications; I. V. Tudose, **P. Pascariu**, O. Brîncoveanu, C. Romanîtan, D.M. Manoli, M.P. Sucheana, E. Koudoumas, 48th International Semiconductor Conference-CAS 2025, Sinaia, Romania, 7-11 October, 2025.
-

Brevete:

- [1]. C. Cojocaru, P. Samoila, R. Rotaru, **P. Pascariu**, Sorbent mixt de tip perna absorbanta pentru combaterea poluarilor cu produse petroliere, si procedeu de obtinere, National Patent RO 133050 B1 (29-05-2020)/ OSIM, Bucharest.
-

Proiecte de cercetare (responsabil sau membru)

- [1]. **Cercetător Post-Doc**, proiect de cercetare pentru stimularea tinerelor echipe independente (TE), cod: PN-II-RU-TE-2014-4-1266), Materiale pe baza de polimeri ca sorbenti pentru îndepărtarea unor uleiuri și coloranți din apele contaminate, Durata: 1.10.2015 – 30.09.2017, Responsabil: Dr. Corneliu Cojocaru, Buget: 550 000 Lei.
- [2]. **Director de proiect**, proiect mobilitate pentru cercetători (MC), PN-III-P1-1.1-MC-2017-0203, Noi materiale oxidice nanostructurate fabricate prin piroliza spray cu aplicabilitate în tehnologii de purificare și generare de energie regenerabila, Durata: 3–24.01.2018, Buget: 22 000 Lei.
- [3]. **Asistent de cercetare**, "Excellence in advanced research, leadership in innovation and patenting for university and regional development" (EXCALIBUR), contract no. 18 PFE / 16.10.2018, funded by MCI under the Institutional Development Projects - RDI excellence funding projects, Subprogram 1.2 - Institutional performance, Program 1 - Development of the national R & D system, National R & Development and Innovation for the period 2015-2020 (PNCDI III), Durata: 2019 – 2020, Responsabil: Prof. univ. Dr. Mihai Dimian, Buget: 3 132 000 Lei.
- [4]. **Director de proiect**, proiect de cercetare pentru stimularea tinerelor echipe independente (TE), cod: PN-III-P1-1.1-TE-2019-0594), Noi membrane compozite nanostructurate cu proprietăți fotocatalitice îmbunătățite pentru purificarea apei, Durata: 01.11.2020 – 31.10.2022, Responsabil: Dr. Petronela Pascariu, Buget: 431 900 Lei.

[5]. **Tânăr cercetător**, proiect de cercetare pentru stimularea tinerelor echipe independente (TE), cod: PN-III-P1-1.1-TE-2021-0030, Glicoliza catalitică cu catalizatori magnetici nanodimensionați, Durata: 15.05.2022 – 15.04.2024, Responsabil: Dr. Petrisor Samoila, Buget: 450 000 lei.

[6]. **Tânăr cercetător**, proiect de cercetare pentru stimularea tinerelor echipe independente (TE), cod: PN-III-P1-1.1-TE-2021-1068, Dezvoltarea de noi arhitecturi microporoase de polimeri conjugați ca senzori solizi pentru detecția de derivați nitroaromatici periculoși, Durata: 1.05.2022 – 1.04.2024, Responsabil: Dr. Loredana Vacareanu, Buget: 450 000 lei.

[7]. **Persoană cheie**, proiect PNRR/2022/C9/MCID/18 CF23/14 11 2022 contract 760101/23.05.2023 financed by the Ministry of Research, Innovation and Digitalization in “Development of a program to attract highly specialized human resources from abroad in research, development, and innovation activities” within the – PNRR-III-C9-2022 - 18 PNRR/2022/Component 9/investment 8, Development of novel nanocomposite materials with tunable conductivity for electromagnetic shielding and potential uses in electronics and optoelectronics applications, Durata: 1.07.2023 – 30.06.2026, Responsabil: Prof. Dr. Emmanuel Koudoumas, Buget: 7 000 000 Lei.

[8]. **Director de proiect**, proiect mobilitate pentru cercetători (MC), PN-IV-P2-2.2-MC-2024-0507, Nanotuburi hibride electrofilate: abordări inovatoare pentru aplicații de mediu și energie, Durata: 01-30.11.2024, Buget: 22 000 Lei.

[9]. **Cercetător Post-Doc**, proiect de cercetare exploratorie (PCE), cod: PN-IV-P1-PCE-2023-0144, Sisteme polimerice și hibride pentru explorarea și intensificarea eliminării poluanților organici din apele contaminate, Responsabil: Dr. Corneliu Cojocaru, Durata: 15.07.2025 – 15.07, Buget: 1 200 000 Lei.

Data,

19.01.2026

Semnătura,

Dr. Petronela Pascariu

