

# Curriculum Vitae

## 1) Personal information

**Name and surname:** *Petronela PASCARIU (DORNEANU)*

**Date and place of birth:** *June 23, 1983, Iasi, Romania*

**Current address:** *"Petru Poni" Institute of Macromolecular Chemistry, 41A Gr. Ghica Voda alley, Iași-700487, Romania*

**Phone number, e-mail address:** +40232201191 (office), [dorneanu.petronela@icmpp.ro](mailto:dorneanu.petronela@icmpp.ro); [pascariu\\_petronela@yahoo.com](mailto:pascariu_petronela@yahoo.com);

## 2) Education, degrees and diplomas:

- Graduation in Physics, B.Sc. Diploma Series V nr. 0077881, (score: 8.49 and B.Sc. final exam with score 9.30). Thesis title: "The phenomenon of electrolysis. Applications in nanotechnologies".
- Master Degree in Physics of Advanced materials. Nanotechnologies. Diploma with honors (score: 10/10 and M.Sc. final exam with score 10/10). Thesis title: "Research on electrochemical preparation of magnetic structures. Applications".
- Doctor in science (in Physics) by the order nr. 3639 to 27.03.2012 of Education, Research and Innovation Ministry, „Al.I. Cuza” University, Iasi, Romania. Thesis title: "Contribution to the study of some functional multilayered nanostructures with applications in spintronics." [https://www.researchgate.net/publication/312054643\\_Contribution\\_to\\_the\\_study\\_of\\_some\\_functional\\_multilayered\\_nanostructures\\_with\\_applications\\_in\\_spintronics](https://www.researchgate.net/publication/312054643_Contribution_to_the_study_of_some_functional_multilayered_nanostructures_with_applications_in_spintronics)

## 3) Professional experience: Employed as:

- 23.07.2006 – 1.10.2008 Assistant Researcher at National Institute of Research & Development for Technical Physics, Iasi, Romania;
- 25.03.2011 – 25.03.2013 – temporary interruption of research activity – maternity leave;
- 11.07.2013 – 15.07.2015 Assistant Researcher at "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania;
- 15.07.2015 – present Researcher at "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania;

## 4) Fellowships and research stages:

- November – December 2007 research stage at the Research Institute for Solid State Physics and Optics, Hungarian Academy of Sciences. H-1525 Budapest, P.O.B. 49, Hungary. Hungarian principal investigator of international bilateral projects: GMR multilayer structures (**one month**).

- 2 November – 2 December 2015 research stage at the Center of Material Technology and Photonics, School of Engineering of TEI, Crete, Heraklion, (supervisor Professor Dr. Emmanuel Koudoumas) - POSDRU/159/1.5/S/133652 (**one month**).
- 3 – 24 January 2018 research stage at the Center of Material Technology and Photonics, School of Engineering of TEI, Crete, Heraklion, (supervisor Professor Dr. Emmanuel Koudoumas) - PN-III-P1-1.1-MC-2017-0203 (**three weeks**).

#### **5) Team work and scientific research experience acquired as member in national grants:**

- Her PhD thesis work at Alexandru Ioan Cuza University, Faculty of Physics, Iasi was founded by the project POSDRU- 6/1.5/S/25 with thesis title “Contribution to the study of some functional multilayered nanostructures with applications in spintronics” supervised by Prof. Dr. Violeta Georgescu budget 66.600 lei.
- Postdoctoral research fellow in (project POSDRU/159/1.5/S/133652) with project title “Polymer/inorganic nanoparticles nanocomposites with applications in electronics and optoelectronics” July 2014 - October 2015 budget 39.000 lei.
- Young Research Teams (member) PN-II-RU-TE-2014-4-1266 with project title “Polymer-based materials as sorbents for the enhanced removal of oil spills and dyes from the contaminated waters” October 2015 – September 2017 budget 550 000 lei.
- Researcher mobility projects (PN-III-P1-1.1-MC-2017-0203) with project title “New nanostructured oxide materials prepared by spray pyrolysis with applicability in purification technologies and renewable energy generation” 3–24 January 2018 budget 22000 lei.
- Assistant researcher (member) in “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), 1 February 2019-1 October 2020 budget 5000000 lei.

#### **6) Awards:**

- **Best poster in Nano-electronics** at International Workshop NanoRomania, Iasi, 2009, *Morphology and tunneling magnetoresistance in granular Co-Ni-N/Al nanostructured films*;
- **Scnd prize** at *PhD Students Workshop on Fundamental and Applied Research in Physics*, Iasi, 2009, *Research on [Co/Zn]<sub>n</sub> and [Zn/Co]<sub>n</sub> nanostructured multilayers* (oral presentation);
- **Diploma of excellence** at *European Exhibition of Creativity and Innovation*, Iasi, 2011, *Influence of Zn layers on magnetic and magneto-transport processes in granular [Ni-Fe/Zn/Co-Ni- N/Ni-Mn] spin valves*.

- The prize of the Romanian Academy 2016 “**Cristofor I. Simionescu**” with the title of the paper *Nanostructured oxide materials with applicability in purification technologies and environmental protection.*

#### 7) Patent (s)

- C. Cojocaru, P. Samoila, R. Rotaru, **P. Pascariu**: “*Pillow type sorbent for combating of oil spill pollution and the method of preparation*” No.: A/00483 (18-07-2017) / OSIM, Bucharest.

**8) List of publications:** Co-author of **42 ISI papers (cumulative IF: 138.43)** where she is main and/or corresponding author on **24** with a high ISI impact factor (majority having FI higher than 3 and classified in the red area), such as: *Appl. Catal. B., Appl. Surf. Sci., Int. J. Biol. Macromol., Ceram. Int., J. Environ. Manage., React. Funct. Polym., Eur. Polym. J., J. Taiwan Inst. Chem. Eng., J. Alloys Compd., Sens. Actuator B-Chem., Mater. Sci. Eng. B., Polymer Reviews, etc.*); **1 national patent request**; **5** papers published in non-ISI international journals; **7 book chapter**; Participation with **76** presentations (**3 invited, 13 oral presentations** and more than **60 poster presentations**) to international and national conferences; **Hirsch Index=11** (according to WoS) - 402 citations, **h=12** (according to Google Scholar) - 510 citations and **h=12** (according to Scopus), **277** citations (without self-citations) and Hirsch factor **h=10** (according to WoS)

**Papers published:** ResearchID: <http://www.researcherid.com/rid/C-5446-2014>;

**ORCID ID:** <https://orcid.org/0000-0002-5516-151X>;

Google Scholar: <https://scholar.google.com/citations?user=KqTCAO4AAAAJ&hl=ro>

Researchgate: [https://www.researchgate.net/profile/Petronela\\_Pascariu\\_Dorneanu](https://www.researchgate.net/profile/Petronela_Pascariu_Dorneanu)

#### 9) Organizational skills and competences:

Member of local organising committee in: PhD Students Workshop on Fundamental and Applied Research in Physics”, Iasi, Romania, 2009, <https://mail.uaic.ro/~farphys/homepage.html>; International Conference on Physics of Advanced Materials, Iasi, Romania, 2014, [www.icpam.ro](http://www.icpam.ro); International Workshop “Advances on Photocatalysis”, Iasi, Romania, 2015, [www.photocatalysis-workshop.com](http://www.photocatalysis-workshop.com).

#### 10) Technical skills and competences:

Good competences in magnetic measurements by using an induction type device, torsion magnetometry and magnetoresistance measurements; knowledge of operating devices Potentiostat/Galvanostat HEKA PG340; Scanning electron microscope (SEM) JEOL JSM-6390; Atomic absorption spectrometer Perkin-Elmer AAnalyst 200; Knowledge of operating devices FLS 980 fluorospectrometer from Edinburgh Instruments.

## 11) List of publications (2008-present)

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**2019**

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- [1]. M. Homocianu, **P. Pascariu\***, Electrospun polymer-inorganic nanostructured materials and their applications, *Polymer Reviews* (2019) DOI: 10.1080/15583724.2019.1676776, **IF: 6.766, (Q1)**.
- [2]. **P. Pascariu**, D. Vernardou, I.V. Tudose, M. Sucheaa, 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 **F: 5.770, (Q1)**.
- [3]. **P. Pascariu**, M. Homocianu, *ZnO-based ceramic nanofibers: Preparation, properties and applications*, *Ceramics International* 45 (2019) 11158–11173 **IF: 3.450, (Q1)**.
- [4]. **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: 4.865, (Q1)**.
- [5]. 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: 2.069, (Q2)**.
- [6]. **P. Pascariu\***, M. Homocianu, C. Cojocaru, P. Samoila, A. Airinei, M. Sucheaa, *Preparation of La doped ZnO ceramic nanostructures by electrospinning – calcination method: Effect of La<sup>3+</sup> doping on optical and photocatalytic properties*, *Applied Surface Science* 476 (2019) 16–27 **IF: 5.155, (Q1)**.
- [7]. **P. Pascariu\***, C. Cojocaru, N. Olaru, A. Airinei, *Photocatalytic activity of ZnO-SnO<sub>2</sub> 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: 1.454, (Q3)**.
- [8]. 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: 4.784, (Q1)**.
- [9]. **P. Pascariu**, I.V. Tudose, M. Sucheaa, *Surface morphology effects on photocatalytic activity of metal oxides nanostructured materials immobilized onto substrates*, *Journal of Nanoscience and Nanotechnology* 19 (2019) 295–306 **IF: 1.093, (Q4)**.
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**2018**

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- [10]. **P. Pascariu\***, A. Airinei, M. Asandulesa, A. Rotaru, *Insights into the optical, magnetic and dielectrical properties of some novel polysulfone/NiFe<sub>2</sub>O<sub>4</sub> composite materials*, Polymer International 67 (2018) 1313–1324 **IF: 2.433, (Q2)**.
- [11]. **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: 5.155, (Q1)**.
- [12]. **P. Pascariu\***, I.V. Tudose, M. Sucheaa, 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: 5.155, (Q1)**.
- [13]. C. Cojocaru, A.C. Humelnicu, P. Samoila, **P. Pascariu**, V. Harabagiu, *Optimized formulation of NiFe<sub>2</sub>O<sub>4</sub>@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: 3.074, (Q1)**.
- [14]. **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: 2.162, (Q2)**.

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## 2017

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- [15]. 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: 2.366, (Q2)**.
- [16]. **P. Pascariu Dorneanu\***, A. Airinei, N. Olaru, N. Fifere, C. Doroftei, F. Iacomì, *Preparation and characterization of some electrospun polysulfone nanocomposites reinforced with Ni doped SnO<sub>2</sub> nanoparticles*, European Polymer Journal 91 (2017) 326–336 **IF: 3.621, (Q1)**.
- [17]. **P. Pascariu Dorneanu\***, C. Cojocaru, N. Olaru, P. Samoila, A. Airinei, L. Sacarescu, *Electrospun PVDF fibers and a novel PVDF/CoFe<sub>2</sub>O<sub>4</sub> fibrous composite as nanostructured sorbent materials for oil spill cleanup*, Applied Surface Science 424 (2017) 389–396 **IF: 5.155, (Q1)**.
- [18]. C. Cojocaru, **P. Pascariu Dorneanu**, A. Airinei, N. Olaru, P. Samoila, A. Rotaru, *Design and evaluation of electrospun polysulfone fibers and polysulfone/NiFe<sub>2</sub>O<sub>4</sub> nanostructured composite as sorbents for oil spill cleanup*, Journal of the Taiwan Institute of Chemical Engineers 70, (2017) 267–281 **IF: 3.834, (Q1)**.

[19]. 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, 21–32 (2017) **IF: 14.229, (Q1)**.

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## 2016

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[20]. 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, 52–57 (2016) **IF: 2.961, (Q1)**.

[21]. **P. Pascariu (Dorneanu)\***, A. Airinei, M. Grigoras, N. Fifere, L. Sacarescu, N. Lupu, L. Stoleriu, *Structural, optical and magnetic properties of Ni doped SnO<sub>2</sub> Nanoparticles*, Journal of Alloys and Compounds 668, 65–72 (2016) **IF: 4.175, (Q1)**.

[22]. **P. Pascariu\***, A. Airinei, N. Olaru, L. Olaru, V. Nica, *Photocatalytic degradation of Rhodamine B dye using ZnO–SnO<sub>2</sub> electrospun ceramic nan fibers*, Ceramics International 42, 6775–6781 (2016) **IF: 3.450, (Q1)**.

[23]. 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 SnO<sub>2</sub>, NiO and SnO<sub>2</sub>/NiO Mixed-Oxide Nanoparticles*, Journal of Fluorescence 26, 217–224 (2016) **IF: 1.913, (Q3)**.

[24]. **P. Pascariu\***, A. Airinei, N. Olaru, I. Petrilă, V. Nica, L. Sacarescu, F. Tudorache, *Microstructure, electrical and humidity sensor properties of electrospun NiO–SnO<sub>2</sub> nanfibers*, Sensors and Actuators B 222, 1024–1031 (2016) **IF: 6.393, (Q1)**.

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## 2015

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[25]. **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, 95–102 (2015) **IF: 5.155, (Q1)**.

[26]. **P. Pascariu Dorneanu\***, A. Airinei, M. Homocianu, N. Olaru, *Photophysical and surface characteristics of electrospun polysulfone/nickel fibers*, Materials Research Bulletin, 64 306–311 (2015) **IF: 3.355, (Q2)**.

[27]. **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] tetramethylsiloxane*, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 134, 218-224 (2015) **IF: 2.88, (Q1)**.

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## 2014

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[28]. **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, 1029-1035 (2014) **IF: 2.781, (Q2)**.

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## 2012

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[29]. M. Poiana, L. Vlad, **P. Pascariu**, A. V. Sandu, V. Nica, V. Georgescu, *Effects of current density on morphology and magnetic properties of Co-TiO<sub>2</sub> electrodeposited nanocomposite films*, Optoelectronics and Advanced Materials - Rapid Communications (OAM-RC), 6, 343- 440 (2012) **IF: 0.452, (Q4)**.

[30]. **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*, J Supercond Nov Magn, 25, 481-486 (2012) **IF: 1.13, (Q3)**.

[31]. **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, 561-568 (2012) **IF: 2.781, (Q2)**.

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## 2011

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[32]. **P. Pascariu\***, S. I. Tanase, D. Tanase, V. Georgescu, *Microstructure, magnetic and magnetoresistance properties of electrodeposited [Co/Zn]<sub>50</sub> multilayers*, J Supercond Nov Magn, 24, 1917-1923 (2011) **IF: 1.13, (Q3)**.

[33]. **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, 1103-1110 (2011) **IF: 0.638, (Q4)**.

- [34]. **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, 836-841 (2011) **IF: 0.452, (Q4)**.
- [35]. 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, 1481–1487 (2011) **IF: 1.874, (Q3)**.
- [36]. 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, 327-333 (2011) **IF: 2.781, (Q2)**.
- [37]. 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*, J Supercond Nov Magn, 24, 2145-2152 (2011) **IF: 1.13, (Q3)**.
- [38]. Pinzaru (Tanase), S.I. Tanase, **P. Pascariu**, A. V. Sandu, V. Nica, V. Georgescu, *Magnetic properties and giant magnetoresistance effect in [Fe/Pt]<sub>n</sub> granular multilayers*, Optoelectronics and Advanced Materials - Rapid Communications (OAM-RC), 5, 235-241, (2011) **IF: 0.452, (Q4)**.
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## 2010

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- [39]. 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, 119–123 (2010) **IF: 3.507, (Q2)**.
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## 2008

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- [40]. N. Lupu, H. Chiriac, **P. Pascariu**, *Electrochemical deposition of FeGa/NiFe magnetic multilayered films and nanowire arrays*, J. Appl. Phys., 103, 07B511 (2008) **IF: 2.328, (Q2)**.
- [41]. H. Chiriac, T. A. Óvári, **P. Pascariu**, *Phenomenological model for the simulation of hysteresis loops in NiFe/Cu multilayered nanowires*, J. Appl. Phys. 103, 07D919 (2008) **IF: 2.328, (Q2)**.
- [42]. N. Lupu, **P. Pascariu**, C. Gherasim, H. Chiriac, *Magnetic and magnetoelastic properties of electrodeposited FeGa/CoFeB multilayered films and nanowire arrays*, IEEE Trans. Magn., 44, 3005-3008 (2008) **IF: 1.651, (Q3)**.
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## 12) Article non-ISI:

- [1] E.V. Buta, **P. Pascariu**, F. Prihor, L. Vlad, V. Pohoată, R. Apetrei, D. Luca, A. Nastuță, I. Alupoaei, D. Mardare, „Characterization of Sputtered TiO<sub>2</sub> 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]<sub>n</sub>, *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 2<sup>th</sup> 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. Sucheaa, Graphene and TiO<sub>2</sub> - PVDF nanocomposites for potential applications in triboelectronics, *Proceedings of the 41<sup>st</sup> 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. Sucheaa, Comparative study of Sm and La doped ZnO properties, *Proceedings of the 41<sup>st</sup> International Semiconductor Conference (CAS) 10-12 Oct. 2018, Sinaia, Romania*, 245-248 (2018).

## 13) Books/ chapters (including monographs):

- [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. Iacomi, S. Bucur, M. Sucheaa, *Electrospun TiO<sub>2</sub> based nanofibers composites and their bio-related and environmental applications*, *Functional Nanostructured Interfaces for Environmental and Biomedical Applications*, Valentina Dinca and Mirela Sucheaa (editors), Eds., Elsevier, Amsterdam, 307–321 (2019) ISBN: 9780128144015.
- [3] **P. Pascariu**, E. Koudoumas, V. Dinca, L. Rusen, M.P. Sucheaa, *Applications of metallic nanostructures in biomedical field*, *Functional Nanostructured Interfaces for Environmental and Biomedical Applications*, Valentina Dinca and Mirela Sucheaa (editors), Eds., Elsevier, Amsterdam, 341–361 (2019) ISBN: 9780128144015.

- [4] I.V. Tudose, F. Comanescu, **P. Pascariu**, S. Bucur, L. Rusen, F. Iacomi, E. Koudoumas, M. Sucheas, *Chemical and physical methods for multifunctional nanostructured interfaces fabrication*, Functional Nanostructured Interfaces for Environmental and Biomedical Applications, Valentina Dinca and Mirela Sucheas (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. Sucheas, *Graphene based materials and their biomedical and environmental applications –Recent advances*, Functional Nanostructured Interfaces for Environmental and Biomedical Applications, Valentina Dinca and Mirela Sucheas (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. Sucheas, *Nanostructured ZnO based materials for biomedical and environmental applications*, Functional Nanostructured Interfaces for Environmental and Biomedical Applications, Valentina Dinca and Mirela Sucheas (editors), Eds., Elsevier, Amsterdam, 285–305 (2019) ISBN: 9780128144015.
- [7] M. Sucheas, 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, ISBN: 9780128175903 (accepted) 1 November 2019.

#### 14) Invited presentations

- [1] H. Chiriac, **P. Pascariu**, G. Ababei, S. Corodeanu, M. Grigoras, N. Lupu, “Magneto-transport effects in multilayered films and nanowires”, IEEE Magnetics Society Chapter of the Romania - ROMSC, 26-29 May Iasi, Romania, 2007.
- [2] **Petronela Pascariu**, Anton Airinei, Niculae Olaru, Photocatalytic metal-oxide nanofibers fabricated by electrospinning, The 2<sup>nd</sup> International Workshop (AdvPhotoCat-E 2017), July 14 –16, Crete, Grecia, 2017.
- [3] M. Sucheas, C. Pachi, F. Comanescu, **P. Pascariu**, M. Popescu, I. V. Tudose, E. Koudoumas, Raman microscopy and spectroscopy studies of graphene/TiO<sub>2</sub>/PVDF composite fibers, 11<sup>th</sup> International Conference On Physics Of Advanced Materials (ICPAM-12), Heraklion, Crete-Grecia, Septemeber 22-28, 2018.

Date,  
12.03.2019

Signature,  
Dr. Petronela Pascariu

