



**Europass
Curriculum Vitae**

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Personal information

First name(s) / Surname(s) **PAULA PRIOTEASA (BARBU)**
Telephone(s) +40213468297/129 Mobile: 0732351109
Fax(es) +40213468299
E-mail paula.prioteasa@icpe-ca.ro
Nationality Romanian
Date of birth 11.09.1979
Gender Female

Desired employment / Occupational field **Research and Development / Electrochemistry and Corrosion; Renewable energy; Supercapacitors; Electrochemical technologies; Batteries; Materials Science**

Work experience 15 years

Dates **2015-present**

Occupation or position held **Senior Scientific Researcher Grade III**

Main activities and responsibilities Electrochemical Measurements; Research in the field of Advanced and Ecological Energy Sources & Systems - Fuel Cell Technology, membrane-electrode assembly MEA, first and second generation batteries, supercapacitors, redox flow batteries

Name and address of employer National Institute for Research and Development in Electrical Engineering INCDIE ICPE-Advanced Research, 313 Splaiul Unirii, 030138, District 3, Bucharest, ROMANIA

Type of business or sector Research & Development in electrical engineering

Dates **2007-2015**

Occupation or position held **Scientific Researcher**

Main activities and responsibilities Generally, research activities and interests include electrochemical technologies (electrochemical deposition with functional role, anodic oxidation, metallic foils obtaining, ornamental finishing), Ionic liquids based on choline chloride, with applications in electrochemical deposition of metals (Sn, Ag, Ni, Zn-Sn alloy).
- Research in the nickel metal hydride NiMH batteries
- Electrochemical Measurements
- Conducting polymers coatings onto metallic surfaces, for example PPy, and polyaniline for Supercapacitors Applications

Name and address of employer National Institute for Research and Development in Electrical Engineering INCDIE ICPE-Advanced Research, 313 Splaiul Unirii, 030138, District 3, Bucharest, ROMANIA

Type of business or sector Research & Development in electrical engineering

Dates **2005 – 2007**

Occupation or position held **Assistant Researcher**

Main activities and responsibilities Electrochemical Measurements; Electrodeposition of metals and alloys, organic and inorganic synthesis

Education and training

Dates **2005-2011**

Title of qualification awarded **PhD of thesis “Electrode processes at induced and abnormal deposition of some nickel alloys,,**

Principal subjects/occupational skills covered Electrochemistry and Corrosion, Deposition of alloys(Ni alloys) using aqueous electrolytes and ionic liquids (at room temperature) ,their characterization and application;

Name and type of organisation providing education and training University POLITEHNICA of Bucharest, Faculty of Applied Chemistry and Materials Science, Department of Applied Physical Chemistry and Electrochemistry

Level in national or international classification ISCED 6 (International Standard Classification of Education)

Dates **2004-2005**

Title of qualification awarded **MSc**

Principal subjects/occupational skills covered Theoretical Electrochemistry, Applied Electrochemistry, Corrosion Science and Engineering, Applied physics and thermodynamics Chemistry
Electrochemistry and Corrosion; Electrodeposition of metals and alloys

Name and type of organisation providing education and training University POLITEHNICA of Bucharest, Faculty of Applied Chemistry and Materials Science, Department of Applied Physical Chemistry and Electrochemistry

Dates **1999-2004**

Title of qualification awarded **BSc**

Principal subjects/occupational skills covered Special Mathematics, Chemistry, Inorganic, Organic Chemistry, Electrochemistry, Electrochemical technology, Engineering and Chemical Reactors, Inorganic Substances Technology

Name and type of organisation providing education and training University POLITEHNICA of Bucharest, Faculty of Applied Chemistry and Materials Science, Inorganic Substances Technology Department

Dates **1994-1998**

Title of qualification awarded **Baccalaureate degree**

Principal subjects/occupational skills covered Accounting, Economics, Statistics, Informatics

Name and type of organisation providing education and training School economic-administrative of Rosiori de Vede , Teleorman

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s) **French, English**

Self-assessment <i>European level (*)</i>	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
Language B ₂	Independent speaker	Independent speaker	Independent speaker	Independent speaker	Independent speaker
Language B ₁	Independent speaker	Independent speaker	Elementary speaker	Elementary speaker	Elementary speaker

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences **Teamwork, good communication, Team spirit ; Adaptability**

- Organisational skills and competences
- Project and team management skills (achieved by involvement and/or coordination of research projects)
 - Pedagogy Certificate acquired within University POLITEHNICA of Bucharest after following the pedagogy courses and practical applications - 2004
 - International Summer School of Magnetism, September 2005, Constanta
 - Assistant Manager Diploma conferred by Managerial Agency for Scientific Research, Innovation and Technology Transfer from Romania – 2005
 - Diploma of participation in the conference "55 years of activity of the ICPE group in the development of the electrical sector" September 20, 2005;
 - Management of Research Projects Diploma conferred by National School of Administrative and Political Studies – 2006
 - Summer School "Opportunities for collaboration within the ERA in the field of energy production with hydrogen and fuel cell technologies" June 14-16, 2006 Constanta;
 - International Summer School „Micro and Nano Deposition” (MINDE COURSE) 14-18 October 2007, Athens, Greece
 - Scientific authority course - Faculty of applied Chemistry and Materials Science, from the Polytechnic University of Bucharest , June 25-26, 2009
 - Project Manager Diploma conferred by Managerial Agency for Scientific Research, Innovation and Technology Transfer from Romania – 2015
 - Supervisor of a student team which participated at Student Conference organized by University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science
 - Member of professional associations: Romanian Society of Biomaterials
 - Reviewer at Journal of Materials and Design
 - Reviewer of Journal of Energy and Power Engineering
 - Reviewer of Journal of Organic Chemistry
 - Reviewer at Journal of Chemical Engineering and Materials Science
 - Reviewer at Asian Journal of Chemical Sciences

Technical skills and competences High experience in using, measuring and monitoring equipments in electrochemistry and corrosion (Electrochemical Combine VoltaLab 40 Radiometer Analytical with the following techniques: Cyclic Voltametry, Potentiodynamic polarization, Open Circuit Potential, Electrochemical Impedance Spectroscopy, ChronoAmperometry, ChronoPotentiometry, ChronoCoulometry)

Computer skills and competences High operating experience with MS-OFFICE
High experience in experimental data acquisition and processing with VoltaMaster 4, Zview

Artistic skills and competences

Other skills and competences Development of new technology: "Technology deposition of Sn and Zn-Sn alloy in ionic liquids based on choline chloride ' elaborated in RTS no. 4 / 2009, Partnerships project 31-066/2007 "Environmentally friendly ionic liquids with applications in electrochemical surface treatments for high performance."

Responsible for the working procedure, "Stanari of metals from ionic liquids based on choline chloride ,, code: PL-4.3-01 dated 04. 09.**2010**, elaborated within the PNII Partnerships project no. 31-166 / 2007, "Environmentally friendly ionic liquids with applications in high performance surface electrochemical treatments"

Responsible for the control procedure, "Tin coating control", code: PL-4.3-02 dated 04. 09.**2010**, elaborated within the PNII Partnerships project no. 31-166 / 2007, " Environmentally friendly ionic liquids with applications in electrochemical surface treatments for high performance."

Technical specification "Ferromagnetic components with matrices based on multicomponent alloys CoNiMnP for MEMS applications" elaborated within the PNII Partnerships project no 12-086 / 2008 "Ferromagnetic components for microelectromechanical systems,,

Development of new technology: "Technology deposition of NiCoMnP alloy in magnetic field,, elaborated in RTS /**2017**, Partnerships project PN-II-PT-PCCA-2013,249/2014 Partnerships project "Electromagnetic actuators and electrostatics processed by LIGA technology ,, Technical specification ST 116 / 08.08.2017- "Nanostructured coatings based on Ag-TiO₂ antimicrobial activity,,- 2.7 corrosion resistance Certification report no. 44 / 25.09.**2017** "Nanostructured coatings based on Ag-TiO₂ Antimicrobial Activity,,- Determination of Corrosion resistance-responsible tests(Nr. 7b/29.08.**2017**)

Driving licence

Additional information Contact References

Teodor VISAN – Professor, University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science, Department of Applied Physical Chemistry and Electrochemistry, 1-7 Polizu, 011061, Block E, District 1, Bucharest, E-mail: t_visan@catedra.chfiz.pub.ro

Anca COJOCARU – Lecturer, University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science, Department of Applied Physical Chemistry and Electrochemistry, 1-7 Polizu, 011061, Block F, District 1, Bucharest, E-mail: a_cojocaru@catedra.chfiz.pub.ro

Liana ANICAI – University Politehnica of Bucharest, Center for Surface Science and Nanotechnology, 1st level senior scientist Project Manager
E-mail: lanicai@itcnet.ro

Annexes **See Annex 1.**

Annex 1. List of publications

Published papers in ISI journals

1. **P. PRIOTEASA**, N. IBRIS, T.VISAN, “*The influence of chemical nature on the corrosion behaviour of some dental alloys in Fusayama–Meyer artificial saliva*”, Journal of Optoelectronics and Advanced Materials, vol. 9, No.11, (2007), p. 3405-3410; ISSN 1454-4164; (**Impact factor: 0.827**)
2. E. GATIN, C. BERLIC, B. IORDACHE, **P. PRIOTEASA**, “*Study of the corrosion process for some dental metal alloys under artificial saliva enriched with yeast and streptococcus Mutans bacteria*”, Journal of Optoelectronics and Advanced Materials, Vol. 11, No. 11, (2009), p. 1870-1873; (**Impact factor: 0.433**)
3. **P. PRIOTEASA**, F. GOLGOVICI, G. SBIRCEA, L. ANICAI, T. VISAN, „*Electrodeposition, structure and corrosion behaviour of Ni-Mo alloy obtained from aqueous solutions*”, Rev. Chim.(Bucuresti), vol. 61, No. 11, (2010), p. 1046-1053, (**Impact factor: 0.693**)
4. **P. PRIOTEASA**, A. PETICA, M. POPA, I. CRISTINEL, T. VISAN, “*Electrochemical deposition of nickel for micro-mechanical systems*”, Rev.Chim. (Bucuresti) 62 (5) (2011) p. 543-548,(**Impact factor: 0.599**)
5. G.TELIPAN, L.PISLARU, V.MARINESCU, **P.PRIOTEASA** “*Gas sensing properties of 1-D ZnO obtained by hydrothermal process,*”, Optoelectronics and Advanced Materials – Rapid Communications vol. 5, No. 6, (2011), p. 643 – 647; (**Impact factor: 0.304**)
6. **P. PRIOTEASA** M. M. CODESCU ,E. PATROI ,D. PATROI, V. MARINESCU "Electroplating in Magnetic Field and Characterization of NiCoMnP Alloy Films with Permanent Magnet" Optoelectronics and Advanced Materials – Rapid Communications Vol. 7, No. 1-2, January - February (2013), p. 90 – 95; (**Impact factor: 0.449**)
7. **P. PRIOTEASA**, C.ILIE, M.POPA , M.IORDOC , G.SBARCEA "Electrodeposition of nichel for fabrication of microfluidic pumps" Rev. Chim.(Bucuresti) vol. 64, nr. 3, (2013), p. 275; (**Impact factor: 0.677**)
8. L.ANICAI A.PETICA S.COSTOVICI **P.PRIOTEASA** T.VISAN "Electrodeposition of Sn and NiSn Alloys Coatings using Choline Chloride Based Ionic Liquids – Evaluation of Corrosion Behavior" Electrochimica Acta 114 (2013) 868– 877, (**Impact factor: 4.086**)

9. LINGVAY JÓZSEF, SZATMÁRI ILONA, **PRIOTEASA PAULA**, LINGVAY MÓNICA, TUDOSIE LIANA MIHAIELA, „Az *Aspergillus niger* fonalas penészgomba kihatásai az S235J2G3 acél korróziójára „*Aspergillus niger filamentous fungi initiated corrosion of S235J2G3 carbon steel*” Korróziós Figyelő, vol 54(1), (2014), pp15-21. ISSN: 0133-2546 ,(**Impact factor: 0.143**)
10. A. COJOCARU, M. L. MARES , **P. PRIOTEASA**, L. ANICAI, T. VISAN “*Study of electrode processes and deposition of cobalt thin films from ionic liquid analogues based on choline chloride*” J Solid State Electrochem 19(2015), pp. 1001-1014, (**Impact factor:2.446**)
11. MIHAI IORDOC, ADELA BARA, **PAULA PRIOTEASA**, ALEXANDRU TEIȘANU, VIRGIL MARINESCU, “*Electropolymerization of Conducting Polypyrrole on Carbon Nanotubes / Silicon Composite for Supercapacitor Applications*”, Rev. Chim.(Bucharest) , vol 66, nr 2 (2015), p 196,(**Impact factor: 0.810**)
12. **P. PRIOTEASA**, V. MARINESCU, A. BARA, M. IORDOC , A. TEISANU, C. BANCUI and V. MELTZER “*Electrodeposition of polypyrrole on carbon nanotubes/Si in the presence of Fe catalyst for application in supercapacitors*”, Rev. Chim.(Bucharest) , vol 66, nr 6, (2015), p 820-824,(**Impact factor: 0.810**)
13. L. ANICAI, A. PETICA, D. PATROI, V. MARINESCU, **P. PRIOTEASA**, S. COSTOVICI „*Electrochemical Synthesis of TiO₂ nanopowder involving choline chloride based ionic* , Materials Science and Engineering B 199 (2015) 87–95 ,(**Impact factor: 2.122**)
14. A. COJOCARU, A. S. CATRANGIU, I. SIN, **P. PRIOTEASA**, A. COTARTA, L. ANICAI, T. VISAN “*Studies of antimony-tellurium and copper–tellurium films electrodeposition from choline chloride-containing ionic liquids*”, Thin Solid Films 611 (2016) pp.88–100 ,(**Impact factor:1.761**)
15. G. TELIPAN, L. PÎSLARU-DĂNESCU, V. MARINESCU, **P. PRIOTEASA**, D. OVEZEA “*Synthesis, Characterization and Gas Sensing Properties of CeO₂-Y₂O₃ Binary Oxides*” Sensor Letters, Volume 14, Number 2, February (2016), pp. 114-121, (**Impact factor: 0.558**)
16. A. COJOCARU, **P. PRIOTEASA (BARBU)**, I. SZATMARI, E. RADU, O. UDREA, T. VISAN „*EIS studies on biocorrosion of some steels and copper in Czapek-Dox medium with Aspergillus niger filamentous fungus*” REV-CHIM Bucharest, (2016), vol. 67 no.7, pp1264-1270, (**Impact factor: 0.956**)
17. **Paula BARBU**, Mirela Maria CODESCU, Mihai IORDOC, Virgil MARINESCU, Eugen MANTA, Cristinel ILIE, Marius POPA, “*Electrodeposition of CoNiMnP Thick Films for Micromachined Magnetic Device Applications*”, REV-CHIM Bucharest, (2018), vol. 69, no. 6, pp1355-1362 (**Impact factor: 1.412**)
18. Elena Chițanu, Cristina Banciu, Gabriela Sbârcea, Virgil Marinescu, Adela Băra, **Paula BARBU (Prioteasa)** “*Hydrothermal synthesis and characterization of hybrid ZnO/3D graphene structures*”, REV-CHIM Bucharest, (2018), vol. 69, no. 12, pp 3376-3381 (**Impact factor: 1.412**)
19. Magdalena Valentina Lungu, Arcadie Sobetkii, Arcadii A. Sobetkii, Delia Pătroi, **Paula PRIOTEASA**, Ioana Ion, Constantin Cătălin Negrilă, Mariana Carmen Chifiriuc “*Functional properties improvement of Ag-ZnO thin films using Inconel 600 interlayer produced by electron beam evaporation technique*”, Thin Solid Films, Elsevier ISSN 0040-6090 Vol.667, pp. 76-87, (2018) (**Impact factor: 1,939**)

Published papers in journals CNCSIS

1. N. IBRIS, **P. PRIOTEASA**, T. VISAN , “*Study of corrosion of dental alloys in artificial saliva. Influence of fluoride ions*”, Corrosion and Anticorrosive Protection, vol. II, Nr 2, (2007), p. 18-21, ISSN 1842-0346;
2. **P. PRIOTEASA**, L. ANICAI, F. GOLGOVICI, T. VISAN, “*Synthesis and corrosion characterisation of electrodeposited Ni-Mo alloys obtained from aqueous solutions*”, UPB Sci.Bull., Series B, Vol. 72, No. 4, (2010), 11-24. ISSN 1454-2331.

3. C. ILIE, M. POPA, **P. PRIOTEASA**, I. CHIRITA, N. TANASE, „ *Applications of Liga technology for the development of micromechanical systems*” UPB Sci.Bull., Series D: Mechanical Engineering, Vol. 73, No. 4, (2011), 137-15, ISSN 1454-2358
4. **P. PRIOTEASA**, A. PETICA, L. ANICAI, A. FLOREA " *Tin electrodeposition from choline chloride based ionic liquids, Corrosion and Anticorrosive Protection*", vol. 6 (3) (2011) p. 37-48
5. **P. PRIOTEASA**, M. LINGVAY, I. SZATMARI N. BURUNTEA, I. LINGVAY „ *Coroziunea otelului carbon in prezenta mucegaiului Aspergillus niger*” revista EEA vol. 62 (2014), nr 2 ISSN 1582-5175
6. ILONA SZATMÁRI, LIANA-MIHAIELA TUDOSIE, ANCA COJOCARU, MÓNIKA LINGVAY, **PAULA PRIOTEASA**, TEODOR VISAN, ” *Studies on biocorrosion of stainless steel and copper in Czapek Dox medium with Aspergillus niger filamentous fungus*”, U.P.B, Sci.Bull, Series B, volumul 77 (2015)ISSN 1454-2331
7. MIHAI IORDOC, GEORGIANA MARIN, GEORGETA STOIANOVICI, **PAULA PRIOTEASA***, CRISTINEL BALAN, MARIAN GUTA, RADU FURTUNA, *Increasing Corrosion Resistance of Pressure Vessels at the Hydrostatic Pressure Testing by Using Inhibitors*, Rev. Chim., 72 (1), 2021, 1-17, <https://doi.org/10.37358/RC.21.1.8399>, Online ISSN: 2668-8212. Print ISSN: 0034-7752

Published book chapter abroad

1. N. Elezovic, G. Kartal, P. Moller, J. Koza, P. Smith, **P. Prioteasa**, “ *Development of an electrodeposition process for the production of magnetic write heads*”, capitol în volumul: “MINDE – Micro and Nano Deposition 2005-2008”, EAST Academy, Schwabisch Gmund, Germany, (2009), p. 325-333.

Papers presented at national and international conferences

1. **P. Prioteasa**, *Corrosion of dental alloys in biological media*, Student Meeting, May 2004, University POLITEHNICA of Bucharest, Section Applied Physical Chemistry and Electrochemistry, **oral presentation**;
2. **P. PRIOTEASA** “ *Electroformation and physico-chemical characterization of the flexible metallic foils from the Ni-W alloys*”, Student Meeting, May 2005, University POLITEHNICA of Bucharest, Section Applied Physical Chemistry and Electrochemistry, **oral presentation**;
3. L. ANICAI, A. PETICA, **P. PRIOTEASA**, S. VISAN, “ *Aspects regarding Ni-W alloys electrodeposition and anticorrosive characteristics*”, in volumul “ *Proceedings of Romanian Int. Conf. on Chem. and Chem. Eng., RICCE-14, 22-24 September (2005), Bucharest*”, Vol. 2, Section 10, p.47-52; ISBN 973-718-286-3, **poster presentation**;
4. **P. PRIOTEASA**, L. ANICAI, “ *Influence of some alloying elements on corrosion resistance of dental alloys in chloride solutions*”, “ *Int. Conference URB – CORR, Târgu Mures, 18-20 May (2006)*”, p. 258 ,ISBN: 973 –718 – 481 –5, **oral presentation**;
5. L. ANICAI, M. DUTU, **P. PRIOTEASA**, T. VISAN, “ *A comparative study of Ni-W alloys electrodeposition from aqueous electrolytes and ionic liquids*”, 57th Annual Meeting of the Int. Soc. of Electrochemistry, Edinburgh, UK, 27 Aug -1 Sept, (2006), **oral presentation**;
6. L. Anicai, A. Petica, **P. Prioteasa** “ *Sn-Pb alloys flexible foils produced by electroforming*” 57th Annual Meeting of the Int. Soc. of Electrochemistry, Edinburgh, UK, 27 Aug -1 Sept, (2006), **poster presentation**;
7. L. ANICAI, **P. PRIOTEASA**, A. PETICA, S. VISAN, M. DUTU, A. MANEA, T. VISAN, “ *Comparative study of electroforming and corrosion behaviour of Ni-W alloys in aqueous solutions and in choline chloride ionic melts*”, Int. Conf. of Physical Chemistry, ROMPHYSHEM 12, Bucharest, 6-8 September (2006), section 6, **poster presentation**;

8. N.Ibris, **P.Prioteasa**, T.Visan, "Corrosion study of dental alloys in artificial saliva. The influence of fluoride ions", Conference of Corrosion and Anticorrosive Protection, 26-28 oct (2006), Cluj Napoca, **poster presentation**;
9. **P. Prioteasa**, N. Ibris, T. Visan, "The influence of chemical nature on the corrosion behaviour of some dental alloys in Fusayama-Meyer artificial saliva", Int. Conf. Biomaterials & Medical Devices -BIOMED'2006, 9-11 November (2006), Iași, **poster presentation**;
10. A.Petica, L.Anicai, G.Hristea, **P.Prioteasa** "Alternative materials usable for the realization of bipolar plates from PMFC combustion cells", at the symposium "Fuel cells and hydrogen - alternative energy sources" Bucharest, 16. 11. 2006 , UPB- - Faculty of Applied Chemistry and Materials Science, **oral presentation**;
11. A. Petica, M. Lungu, L. Anicai, **P.Prioteasa** "Silver nanoparticles obtained by electrosynthesis in aqueous media under protection of a mix a stabilisers", ISE Spring Meeting, Dublin, Ireland 30.04-4.05.2007, **poster presentation**
12. L. ANICAI, A. PETICA, G. HRISTEA, **P. PRIOTEASA**, M. IORDOC "Graphite Intercalation Compounds-GICs, as Materials for Bipolar Plates in PEM Fuel Cells", in Proceedings of The 5th Conference "New Research Trends in Material Science" ARM-5, (2007), Vol. II, p 554, **poster presentation**;
13. L. ANICAI, **P. PRIOTEASA**, A. PERTACHE, T. VISAN, "Investigation of induced codeposition of nickel-tungsten and nickel-molybdenum alloys", Int.Conf. INTERFINISH 2007, Nanotechnology and Innovative Coatings, 18-19 October (2007), Athens, Greece, **poster presentation**;
14. L. ANICAI, **P. PRIOTEASA**, "Investigation of the corrosion resistance of Ni-W alloys and Ni-Mo electrodeposited", National Conference on Corrosion and Corrosion Protection, 26-28 October (2007), Piatra Fântânele, Bistrita, **oral presentation**;
15. **P.Prioteasa**, L.Anicai, Comparative study of nickel-molybdenum alloy electrodeposition from aqueous solution and from ionic liquids as electrolytic media, Europe Conference Junior EuroMat ,14-18July 2008,Lausanne,Switzerland, section „Corrosion and wear biocompatibility, **oral and poster presentation**;
- 16.G. Telipan, V. Marinescu, **P. Prioteasa**, G. Zarnescu, Synthesis and characterization of the 1-D ZnO obtained by hydrothermal process with the tetra-n butylammonium bromide surfactant, Conference of Physical Chemistry -ROMPHYSICHEM 13, 3-5 Sept 2008, Bucharest, **poster presentation**
- 17 B. IORDACHE, **P. PRIOTEASA**, N. IBRIS, T. VISAN, "Comparative study of corrosion behaviour for Ni alloys in artificial saliva containing yeast and Streptococcus Mutans bacteria", National Conference on Corrosion and Corrosion Protection, (2008), Piatra Fântânele, Bistrita, **oral presentation**
18. A. Petica, L. Anicai, A. Florea, **P.Prioteasa** T. Visan, „Some aspects regarding tin and nickel electrodeposition from choline chloride based ionic liquids” "First Regional Symposium on Electrochemistry of South – East Europe, RSE - SEE", Rovinj, Istria–CROATIA, 04.05 - 08.05.2008, ISBN 978-953-6894-33-8, **poster presentation**
19. L.Anicai, A. Petica, **P. Prioteasa** "Aspects regarding electroformation and corrosion behaviour of several metallic alloys flexible foils", International Conference on corrosion and modern technologies in the military, ICCMTM, 5-8.11.2008, Bucharest, Romania, **poster presentation**
20. A. Petica, A. Florea, **P. Prioteasa**, L. Anicai, "Environmentally friendly technologies for metals surface treatment - tin and nickel electrodeposition from choline chloride based ionic liquids", 1st International Workshop „Innovation and Evolution by R&D – SMEs Strategic Partnership, Bucharest, Romania, September 10-12, (2009), Book of abstracts, pag. 90, **poster presentation**
21. **P. Prioteasa**, F. Golgovici, L. Anicai, T. Visan, "Electrodeposition of nickel-molybdenum alloys from molybdate contained Watts bath", 1st International Workshop Innovation and Evolution by R&D – SMEs

Strategic Partnership, Bucharest, Romania, September 10-12, (2009), Book of abstracts, pag. 93, **poster presentation** ;

22. **P. Prioteasa**, L. Anicai, F. Golgovici, T. Visan, "Synthesis and corrosion characterisation of electrodeposited Ni-Mo alloys obtained from aqueous solutions", poster, 16- th Romanian Int. Conf.on Chemistry and Chem. Eng., September 9–12, (2009), Sinaia, Romania, **poster presentation**;

23. Gabriela Telipan, Virgil Marinescu, **Paula Prioteasa**, George Zarnescu , „Synthesis and characterization of the 1-D ZnO obtained by hydrothermal process with the tetra-n butylammonium bromide surfactant”, International Conference on Physical Chemistry RomPhysChem-13, Bucharest, Romania, september3-5 2009 , **poster presentation**

24. A.Petica, **P.Prioteasa**, L.Anicai, „Coatings based on dispersed Ag-TiO₂ nanocomposite systems with photocatalytic, antifungal and antibacterial characteristics”, International Conference on Functional Nanocoatings – Nanocoatings 2010, Dresden, March 28-31, (2010), Book of abstracts, pag. 104, **poster presentation** ;

25. **P. Prioteasa**, A.Florea, F.Golgovici, L.Anicai, T.Visan, „Corrosion studies of Ni-Mo alloys electrodeposited from citrate aqueous solutions and ionic liquid electrolytes based on choline chloride”, in vol. Second Regional Symp. On Electrochemistry, Soth-East Europe, June 6-10, (2010), Belgrade, Serbia, Book of Abstracts, p. 126, **poster presentation**;

26. A. Petica, **P. Prioteasa**, G Sbarcea „ELECTRODEPOSITION OF TIN FROM IONIC LIQUIDS BASED ON CHOLINE CHLORIDE,,participation in the demonstration workshop organized at University POLITEHNICA of Bucharest, Section Applied Physical Chemistry and Electrochemistry,9 sept 2010, **oral presentation**

27. A. Petica, **P. Prioteasa**, A. Florea, L. Anicai, "Tin electrodeposition from choline chloride based ionic liquid", V-th National Conference with International participation "Corrosion and Anticorrosion protection", 16-18 sept. 2010, Cluj-Napoca, **oral presentation**

28. A. Petica, St. Costovici, A. Cojocar, **P.Prioteasa**, L. Anicai, T. Visan , „Studies regarding tin based alloys involving choline chloride based ionic liquids,, -th National Conference with International participation "Corrosion and Anticorrosion protection", 16-18 sept. 2010, Cluj-Napoca, **oral presentation**;

29. **P. PRIOTEASA**, M.POPA, "Electrochemical deposition of nickel for mico-mechanical systems" in proceeding of the 1st MEMS and NEMS Symposium of Junior Researchers, Bucharest ,26-27 may (2011), p31, ISSN 2069-1505 **oral presentation**;

30. A.PETICA, **P.PRIOTEASA**, A.FLOREA, C.R.IONESCU, L.ANICAI, "Dispersed Ag -TiO₂ nanocomposite coatings with photocatalytic, antifungal and antibacterial characteristics" ,in Proceedings of 10th International Conference of Colloids and Surface Chemistry, 9-11 june (2011),Galati, Rominia, **poster presentation** ;

31. A.FLOREA, L. ANICAI, **P. PRIOTEASA** ,T. VISAN "Choline chloride based ionic liquids – synthesis, characterisation and applications as environmentally friendly solvents" in proceedings of 10th international conference of colloids and surface chemistry, 9-11 JUNE (2011), Galati, Rominia, **poster presentation**;

32. G.TELIPAN, L.PISLARU, G. ZARNESCU ,V. MARINESCU, **P. PRIOTEASA**, „CeO₂-Y₂O₃ binary oxides obtained by sol gel method used in CO₂ detection" Eurosensors XXV, sept .4-7, (2011), Athens, Greece, ISSN1877-7058, **poster presentation**;

33. **P. PRIOTEASA** , C. ILIE , M. POPA, M. IORDOC, G. SBARCEA," Electrodeposition of nichel for fabrication of microfluidic pumps" in Proceedings of Third Regional Symposium on Electrochemistry: South-East Europe, RSE-SEE-3, 13-17 May, (2012), Bucharest , Romania,book of abstracts pag.SDE-P-08,**poster presentation**;

34. **P. PRIOTEASA**, M. M. CODESCU, E. PATROI, D. PATROI, V. MARINESCU "*Electroplating in Magnetic Field and Characterization of NiCoMnP Alloy Films with Permanent Magnet*" in Proceedings of 7th International Conference on Advanced Materials – ROCAM, 28 - 31 Aug. (2012), Brasov, Romania, book of abstracts pag. 7, **poster presentation**;
35. G. TELIPAN, L. PISLARU-DANESCU, D. OVEZEA, **P. PRIOTEASA**, V. MARINESCU, J. PINTEA "*Synthesis characterization and gas sensing properties of CeO₂-Y₂O₃ binary oxides*" in Proceedings of 7th International Conference on Advanced Materials – ROCAM, 28 - 31 Aug. (2012), Brasov, Romania, book of abstracts pag. 88, **oral presentation**;
36. L. ANICAI, A. PETICA, S. COSTOVICI, **P. PRIOTEASA**, T. VISAN "*Electrodeposition of Sn and NiSn Alloys Coatings using Choline Chloride Based Ionic Liquids*", in Proceedings of 18th World Interfinish Congress & Exhibition, Interfinish, 14-16 november (2012), Milan, Italy, book of abstracts, pag. S07-02, **poster presentation** ;
37. L. ANICAI, M.L. MARES (BADEA), A. COJOCARU, **P. PRIOTEASA**, T. VISAN, "*Electrodeposition of chromium and cobalt, from ionic liquids based on choline chloride*", in Proceedings at Fourth Regional Symposium on Electrochemistry: South-East Europe, RSE-SEE-4, May 26-30, (2013), Ljubljana, Slovenia, Book of abstracts, Session 6:SDE-P-04, pp. 81, **poster presentation**;
38. M. BADEA, A. COJOCARU, L. ANICAI, **P. PRIOTEASA**, ALEXANDRU LIXANDRU, TEODOR VISAN, "*Studies of Electrode Processes during Deposition of Cobalt from Ionic Liquids based on Choline Chloride*", in "Proceedings of 18th Romanian Int. Conf. on Chem. and Chem. Eng., RICCCCE, 4-7 September (2013), Sinaia", Romania, book of abstracts, S3-43, ISSN 2344-1895- ISSN-L-2247-5389, **poster presentation**
39. M. IORDOC, **P. PRIOTEASA**, A. TEISANU, "*Electrozi negativi pentru acumulatori de tip NiMH*", Conferinta Nationala de Surse noi si regenerabile de energie, editia a XIV-a, Tirgoviste, 7-9 noiembrie (2013), **oral presentation**;
40. G. HRISTEA, C. PARASCHIV, M. IORDOC, **P. PRIOTEASA** "*Alternative approaches for ZnO-graphene nanocomposites designed for supercapacitors*", 5th EuCheMS Chemistry Congress 2014 on August 31-September 4, (2014), Istanbul, Turkey, **poster presentation** ;
41. I. SIN, A. S. CATRANGIU, **P. PRIOTEASA**, A. COTARTA, A. COJOCARU, L. ANICAI, T. VISAN, "*Studies of antimony-tellurium and copper-tellurium electrodeposition from choline chloride-oxalic acid ionic liquid*", 10th European Symposium on Electrochemical Engineering, 28 september-2 october, (2014), Sardinia, Italy, **poster presentation**;
42. A. S. CATRANGIU, **P. PRIOTEASA**, A. COTARTA, A. COJOCARU, L. ANICAI, T. VISAN "*Studies of antimony-tellurium and copper-tellurium films electrodeposition from choline chloride-containing ionic liquids*", 16th International Conference on Thin Films, 13 -16 october, (2014), Dubrovnik, Croatia, **poster presentation**
43. S. COSTOVICI, L. ANICAI, **P. PRIOTEASA**, T. VISAN, "*Electrodeposition of Co and NiCo alloy coatings using choline chloride based ionic liquids – Evaluation of corrosion behavior*", 65-th Annual Meeting of the International Society of Electrochemistry, 31 Aug. – 5 Sept. (2014), Lausanne, Switzerland, Book of abstracts pag. s09-022, **poster presentation**;
44. M. Iordoc, A. Teisanu, **P. Prioteasa**, "*Coin cell-type symmetric supercapacitors*", Workshop on Nanostructured Materials for Energy Storage and Biomedical Applications, 30th - 31st October (2014), University of Cyprus, Nicosia, Cyprus - **oral presentation**;
45. M. Iordoc, **P. Barbu**, A. Teisanu, M.V. Lungu, I. Iordache "*Effect of ZrO₂ coating on the electrochemical behavior and surface properties of 316L stainless steel*", 10th International Conference on Photoexcited Processes and Applications, August 29 – September 2, (2016), Brasov, Romania, **poster presentation**;
46. Iordoc Mihai, **Paula Barbu**, Aristofan Teisanu, Sorin Vizireanu, Adela Bara, "*Advanced electrodes for vanadium redox flow cells based on modified carbon nanowalls*", 2nd INTERNATIONAL CONFERENCE ON

ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY, ICOEST (2016), Belgrad, SERBIA, **poster presentation**;

47. Aristofan Teisanu, **Paula Barbu**, Iordoc Mihai, "*Comparative study regarding power density in redox flow cell versus electrolyte composition*", 2nd INTERNATIONAL CONFERENCE ON ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY, ICOEST (2016), Belgrad, SERBIA, **poster presentation**;

48. **Paula Barbu**, Iordoc Mihai, Aristofan Teisanu, "*Study regarding proton exchange membrane efficiency in vanadium redox flow cell*", 2nd INTERNATIONAL CONFERENCE ON ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY, ICOEST (2016), Belgrad, SERBIA, **poster presentation**;

49.G. Hristea, C. Paraschiv, M. Iordoc, **P.Prioteasa**, "*Graphene hybrids designed for energy storage applications*", 16th International Conference of Physical Chemistry ROMPHYSICHEM-16, September 21 - 24, (2016), Galați – ROMANIA, **poster presentation**;

50. Mihai IORDOC, Aristofan TEISANU, **Paula BARBU**, Sorin VIZIREANU, Gimi RIMBU, Adela BARA, "*Advanced electrodes for supercapacitors based on aligned graphenes*", 20th Romanian International Conference on Chemistry and Chemical Engineering Poiana Brasov, ROMANIA - September 6-9, (2017), **poster presentation**;

51. Aristofan TEISANU, Antonela BANCUI, Mihai IORDOC, **Paula BARBU**, Gimi RIMBU, Adela BARA, "*Organic electrolyte based supercapacitors designed for higher voltage*", 20th Romanian International Conference on Chemistry and Chemical Engineering Poiana Brasov, ROMANIA - September 6-9, (2017), **poster presentation**

52. **Paula BARBU**, Antonela BANCUI Mihai IORDOC, Aristofan TEISANU, Gimi RIMBU, Adela BARA, "*Gel electrolyte based supercapacitors with low self discharge effect*", 20th Romanian International Conference on Chemistry and Chemical Engineering Poiana Brasov, ROMANIA - September 6-9, (2017), **poster presentation**

53. Gabriela HRISTEA, Mihai IORDOC, Daniel LIPCINSKI, **Paula BARBU(PRIOTEASA)**, Radu TANASA, "*Design of carbon nanoparticles for immunoassay development*" 20th Romanian International Conference on Chemistry and Chemical Engineering Poiana Brasov, ROMANIA - September 6-9, 2017, **section 2- Biochemistry, Food & Health, poster presentation**

54. M. Iordoc, A. Teisanu, S. Vizireanu, **P.Barbu**, A. Bara, G. Rimbu, "*Noble metal decorated carbon nano walls / polypyrrole (CNWs/PPy) modified electrode for asymmetric supercapacitor application*", The 5th Nano Today Conference (Nano Today 2017), December 6-10, (2017), Waikoloa Beach Marriott, Hawaii, USA, **poster presentation**;

55. A. Teisanu, M. Iordoc, S. Vizireanu, **P.Barbu**, A. Bara, G. Rimbu, "*Nanostructured thin layer copper/nickel oxide composites on carbon nano walls substrate for supercapacitor application*", The 5th Nano Today Conference (Nano Today 2017), December 6-10, (2017), Waikoloa Beach Marriott, Hawaii, USA, **poster presentation**

56. Mihai Iordoc, Aristofan Teişanu, **Paula Barbu**, Adela Băra, Gabriela Sbârcea, Virgil Marinescu, Marius Lungulescu "*Hybrid asymmetric supercapacitor with novel 3D oriented graphite based nanocomposite electrodes*" Proceedings of 18th International Balkan Workshop on Applied Physics and Materials Science IBWAP, Constanta, Romania, July 10- 13, 2018 p. 328, issue 18, **2018, poster presentation**

57. J. G. Stockholm, M. Nedelcu, J. Glick, M. Iordoc, **P. Prioteasa**, A. Jelea, M. Apostol, A. Cojocaru, "*Do high efficiency kW pulsed thermoelectric generators exist?*", *International Thermoelectric Conference (ICT- 2018)*, 18-24 July, (2018), Caen, FRANCE – **Invited paper**;

58. Mihai IORDOC, Aristofan TEISANU, **Paula BARBU**, Gimi RIMBU, Gabriela HRISTEA, "*Redox-Flow batteries*", PRODUCTICA 2018, 25-26 May, (2018), Mioveni, Romania. - **oral presentation**;

59. Paula BARBU, Aurora PETICA, Stefania COSTOVICI, Liana ANICAI, " *Acoperiri electrochimice de staniu utilizând lichide ionice analoge*„, PRODUCTICA 2018, 25-26 May, (2018), Mioveni, Romania. - **oral presentation**;

60. M. Iordoc, A. Teisanu, S. Vizireanu, **P.Barbu**, A. Bara, G. Rimbu, "Platinum decorated 3D carbon nanostructure / polypyrrole modified electrode for asymmetric supercapacitor application", 18th European Conference on Applications of Surface and Interface Analysis, September 15-20, (2019), Dresden, Germany, EU, **poster presentation**;

61. Gabriela SBARCEA, Mihai IORDOC, Aristofan TEISANU, Virgil MARINESCU, Dan GHITA, Mihai STRATICIUC, Marius LUNGULESCU, Robert DUCU, Nicoleta NICULA, **Paula BARBU**, "Growth and Characterization of Zirconia Ceramic Film Formed by Zr Ion Beam Implantation on Biomedical 316L Stainless Steel", 18th European Conference on Applications of Surface and Interface Analysis, September 15-20, (2019), Dresden, Germany, EU, **poster presentation**;

62. Adela BĂRA, Cristina BANCIU, Mihai IORDOC, Aristofan TEISANU, **Paula BARBU**, Mihai BĂDIC, Cristian MORARI, Virgil MARINESCU, Delia PĂTROI, Marius LUNGULESCU, "CARBON BASED MATERIALS AND THEIR APPLICATIONS IN ENERGY CONVERSION AND STORAGE", 18th National Seminar on Nanoscience and Nanotechnology SNN2019 24-25 October (2019), Iasi, Romania, **oral presentation**;

Anexa 2 Chapters in published books

CC1. N. ELEZOVIC, G. KARTAL, P. MOLLER, J. KOZA, P. SMITH, **P. PRIOTEASA**, "Development of an electrodeposition process for the production of magnetic write heads", capitol în volumul: "MINDE – Micro and Nano Deposition 2005-2008", EAST Academy, Schwabisch Gmund, Germany, (2009), p. 325-333

Annex 3. List of patents

Patent application

1. Title: **Material for orthopaedic implant**
Patent application No.A/00308/18.04.2013
Inventor(s): M.Iordoc, M.Codescu, A.A. Teisanu, **P.Prioteasa**
2. Title : **Composite material with carbon nanotubes for supercapacitors and process for obtaining it**
Patent application No.A/00643/21.08.2014
Inventor(s): A.Bara, M.Iordoc, **P.Prioteasa**, A.A. Teisanu
3. Title : **Process for obtaining self-assembly membrane**
Patent application No.A/ 00929/28.11.2014
Inventor(s): G.Hristea, M.Iordoc, **P.Prioteasa**
4. Title : **Supercapacitors with gel electrolyte**
Patent application No.A /00931/28.11.2014
Inventor(s): M.Iordoc, A.Teisanu, A.Bara, **P.Prioteasa**, C.Banciu
5. Title: **Composite material for the spacecraft structure elements with screening properties against ionizing and electromagnetic radiation**
Patent application No. A/01019/17.12.2015
Inventor(s): TEISANU A A; BARA A; IORDOC M N; **BARBU P I(PRIOTEASA)**; CARAMITU A R; MITREA S A; BANCIU C A.
6. Title: **Stack of 1.5KW based on redox-type cells in continuous recirculation**
Patent application No A00956/05.12.2016
Inventor(s): M.Iordoc, A.Teisanu, **P.Barbu(Prioteasa)**

7. Title: Carbonic sensor for carbendazime detection

Patent application No. A/00606/30.08.2017

Inventor(s): HRISTEA G; IORDOC M N; OVEZEA D; **BARBU P I**; LIPCINSKI D; STEFANESCU C A; SUCIU G.

8. Title: Supercapacitor with electroactive material electrodes based on graphene like materials

Patent application No. A/00606/30.08.2017

Inventor(s): IORDOC M N; ION I; TEISANU A A; **BARBU P I**; BARA A; BANCIU C A.

9. Title: Redox flow type battery with stripped electrodes

Patent application No. A/00433/14.06.2018

Inventor(s): TEISANU A A; IORDOC M N; RIMBU G A; **PRIOTEASA P I**

10. Title: Graphene material for supercapacitors and obtaining process for it

Patent application No. A/00814/17.10.2018

Inventor(s): BARA A; IORDOC M N; BANCIU C A; **PRIOTEASA P I**; MARINESCU V E.

11. Title: High power and efficiency thermoelectric generator pulsatingly operated

Patent application No. A/00336/05.06.2019

Inventor(s): NEDELCU M; TEISANU A A; IORDOC M N; **PRIOTEASA P I**.

Patent

1) Title: The method of gear wheel with teeth by miniature cycloidal profile

PATENT GRANTED (registered at OSIM No. **128393 / 28.02.2017**)

Inventor(s): C. Ilie, M. Popa, I. Chirita, N. Tanase, **P. Prioteasa**

2) Title: Composite material for the spacecraft structure elements with screening properties against ionizing and electromagnetic radiation

PATENT GRANTED registered at OSIM No. **131958/2018**

Inventor(s): TEISANU A A; BARA A; IORDOC M N; **BARBU P I (PRIOTEASA)**; CARAMITU A R; MITREA S A; BANCIU C A.

3) Title: Process for obtaining self-assembly membrane

PATENT GRANTED registered at OSIM No. **131108/2018**

Inventor(s): G. Hristea, M. Iordoc, **P. Prioteasa**

4) Title: Supercapacitors with gel electrolyte

PATENT GRANTED registered at OSIM No. **131245/2019**

Inventor(s): Iordoc Mihai Nicolae Teșanu Aristofan Alexandru Băra Adela **Prioteasa Paula Ionela**
Banciu Cristina Antonela

5) Title: Composite material with carbon nanotubes for supercapacitors and process for obtaining it

PATENT GRANTED registered at OSIM No. **130923/30.07.2019**

Inventor(s): A. Bara, M. Iordoc, **P. Prioteasa**, A. A. Teisanu

6) Title: Material for orthopaedic implant

PATENT GRANTED registered at OSIM No. **129839/28.02.2020**

Inventor(s): M. Iordoc, M. Codescu, A. A. Teisanu, **P. Prioteasa**

Annex 4. National and international awards

1. GOLD MEDAL at The Belgian and International Trade Fair for Technological Innovation, Brussels Eureka, 15th November (**2014**), Brussels, Belgium for patent entitled "**Material for orthopaedic implant**"

2. **GOLD MEDAL** at the 13th International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, 25-27th March (2015), Cluj-Napoca, Romania for patent entitled "**Material for orthopaedic implant**"
3. **SILVER MEDAL** at the 43rd International Exhibition of Inventions of Geneva 15th-19nd April (2015), Geneva, Switzerland for patent entitled "**Material for orthopaedic implant**"
4. **GOLD MEDAL** at the 14th International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, 25-27th March (2016), Cluj-Napoca, Romania for patent entitled "**Composite material for supercapacitors**"
5. **GOLD MEDAL** at the 15th International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, 22-24th March (2017), Cluj-Napoca, Romania for patent entitled "**Supercapacitors with gel electrolyte**"
6. **GOLD MEDAL** at the 15th International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, 22-24th March (2017), Cluj-Napoca, Romania for patent entitled "**Composite material for the spacecraft structure elements with screening properties against ionizing and electromagnetic radiation**"
7. **DIPLOMA OF EXCELLENCE** awarded of the **Technical University of Moldova** at the 15th International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, 22-24th March (2017), Cluj-Napoca, Romania for patent entitled "**Process for obtaining self-assembly membrane,**"
8. **SILVER MEDAL** at the 45rd International Exhibition of Inventions of Geneva , 29 March - 2 April 2017, Geneva, Switzerland for patent entitled "**Supercapacitors with gel electrolyte** ,,
9. **SILVER MEDAL** at the 45rd International Exhibition of Inventions of Geneva 29th March - 2nd April (2017), Geneva, Switzerland for patent entitled "**Supercapacitor with gel electrolyte**"
10. **GOLD MEDAL** at the 15th International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, 22-24th March (2017), Cluj-Napoca, Romania for patent entitled "**Composite material for the spacecraft structure elements with screening properties against ionizing and electromagnetic radiation**"
11. **GOLD MEDAL** at the 15th International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, 22-24th March (2017), Cluj-Napoca, Romania for patent entitled "**Supercapacitor with gel electrolyte**"
12. **DIPLOMA OF EXCELLENCE** awarded by the Technical University of Moldova for patent entitled "**Obtaining procedure for self-assembled films**"
13. **DIPLOMA OF APPRECIATION** awarded by the The Government of Romania, The Ministry of Research and Innovation at National Grant of Romanian Inventions, Bucharest, 20th June (2017).
14. **DIPLOMA OF EXCELLENCE** at the 10th edition of the European Exhibition of Creativity and Innovation EUROINVENT 2018, May 17-19, 2018, Iași, Romania for patent entitled "**Composite material for the spacecraft structure elements with screening properties against ionizing and electromagnetic radiation,**"
15. **DIPLOMA OF EXCELLENCE** at the 10th edition of the European Exhibition of Creativity and Innovation EUROINVENT 2018, May 17-19, 2018, Iași, Romania for patent entitled "**Manufacturing method for miniature gear wheels with cycloid toothing profile,**"
16. **SILVER MEDAL** at the 47th International Exhibition of Inventions of Geneva 10th - 14th April (2019), Geneva, Switzerland for patent entitled "**Composite material for the spacecraft structure elements with screening properties against ionizing and electromagnetic radiation**"

17. SILVER MEDAL at the 11th edition of the European Exhibition of Creativity and Innovation EUROINVENT , May 16-18, **2019**, Iași, Romania for patent entitled **“Stack of 1.5KW based on redox-type cells in continuous recirculation,,**

18. BRONZ MEDAL at the 11th edition of the European Exhibition of Creativity and Innovation EUROINVENT 2018, May 16-18, **2019**, Iași, Romania for patent entitled **“Process for obtaining self-assembly membrane,,**

19. DIPLOMA OF MERIT at the 47th International Exhibition of Inventions of Geneva 10th - 14th April (**2019**), Geneva, Switzerland for patent entitled **“Composite material for the spacecraft structure elements with screening properties against ionizing and electromagnetic radiation,,**

20. Certificate of participation at the 11th edition of the European Exhibition of Creativity and Innovation EUROINVENT , May 16-18, **2019**, Iași, Romania for patent entitled **“Process for obtaining self-assembly membrane,,**

21. Certificate of participation at the 11th edition of the European Exhibition of Creativity and Innovation EUROINVENT , May 16-18, **2019**, Iași, Romania for patent entitled **“Composite material for the spacecraft structure elements with screening properties against ionizing and electromagnetic radiation,,**

22. GOLD MEDAL at the 18th International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, 18-20 november (**2020**) , Cluj-Napoca, Romania for patent entitled **“Carbonic sensor for carbendazime detection,,**

23. GOLD MEDAL at the 18th International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, 18-20 november (**2020**) , Cluj-Napoca, Romania for patent entitled **“Supercapacitor with electroactive material electrodes based on graphene like materials,,**

24. GOLD MEDAL at the 18th International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, 18-20 november (**2020**) , Cluj-Napoca, Romania for patent entitled **“Redox flow type battery with stripped electrodes,,**

25. GOLD MEDAL 13th edition of the European Exhibition of Creativity and Innovation EUROINVENT may20-21(**2021**), , Iași, Romania for patent entitled **“Thermoelectric generator of high power and efficiency, pulsating operation,,**

26. GOLD MEDAL 13th edition of the European Exhibition of Creativity and Innovation EUROINVENT may 20-21(**2021**), , Iași, Romania for patent entitled **“Graphene material for supercapacitors and obtaining process for it,,**

27. GOLD MEDAL at the 19th International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, 20-21 oct (**2021**) , Cluj-Napoca, Romania for patent entitled **“Thermoelectric generator of high power and efficiency, pulsating operation,,**

28. GOLD MEDAL at the 19th International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, 20-21 oct (**2021**) , Cluj-Napoca, Romania for patent entitled **“Graphene material for supercapacitors and obtaining process for it,,**

Participation in national and international fairs and exhibitions

Product: LaNi5 battery - participation in the following exhibitions:

- 1) Polifest, Faculty of Electrical Engineering, Polytechnic University of Bucharest October 17-19, **2012**
- 2) Romanian Research Exhibition, within the National Conference of Research and Innovation, National Library of Romania in Bucharest, 7-9 Nov **2012**;

Product: Electroactive material of polymer hybrid type - CNT, for electrodes in supercapacitors participation in the following exhibition:

- 1) Romanian Research Salon - Inventika, October 15-18, **2014**, Bucharest, pavilion C2

Annex 4. Representative projects

Programme/Project	Position	Period: from... to...
Project PN18240201/ 2018 "Efficient energy conversion and storage systems for electrical engineering applications" - Redox flow type battery	Key person	2018
Project Romanian Space Agency (ROSA - STAR 614/2016 "Pulse Operated, High Efficiency Thermoelectric Generator based on ultrafast thermal charging supercapacitors useful as power source for launchers,,	Assistant Manager	2017 - 2019
Project PN-II-PT-PCCA-2013-4-2066 220/2014 "Quick Charging Redox Battery as a primary energy source for electric vehicles"	Key person	2016-2017
Project PN-II-PT-PCCA 147/2014 "Immunobiosensors for the rapid detection of carbamic pesticide residues (carbaryl, carbendazim) in horticultural products,,	Research team member	2016-2017
Project PN-II-PT-PCCA-2013-4-1292, "Nanostructured materials and coatings with the innovative antimicrobial activity for medical applications"	Research team member	2014-2017
Project PN-II-PT-PCCA-2013,249/2014 "Electromagnetic actuators and electrostatics processed by LIGA technology,,	Key person	2014-2017
Project ESA 40/2014 "PLANAR HEATER BASED ON ELECTROCONDUCTIVE CARBON FIBRES DESIGNED FOR SATELLITE THERMAL MANAGEMENT"	Research team member	2014 - 2016
Project external no: 248 / 29.08.2014, Beneficiary-SC INTELLECTRO SRL "Research services for the determination of the interface properties of hybrid microelectrodes,,	Research team member	2014-2015
Project Nucleu PN 09350201 : "Study, experiments Pb accumulators - acid with high energy densities Composite materials for support grids (anode and cathode,,	Research team member	2014
Project 7-035/2012 (4282/2012) MNT-ERA NET "Mini-supercapacitors technology, based on hybrid CNT/CNF - electroactive polymer networks"	Research team member	2012 - 2014
Project Nucleu PN 5201/2009 entitled:	Key person	2012-2013

"Increasing the Efficiency of Equipment and Technological Processes for energy conversion from renewable sources,,		
Project MIS ETC CODE 128 - "Joint study regarding an electro-generator system powered by water turbine for cross-border ecological electrical transport system"	Research team member	2011 - 2013
Project FP7-REGPOT-229906/2009 "ICPE-HYFC (Developing RTD potential of INCDIE ICPE-CA in the field of hydrogen and fuel cell technologies)"	Research team member	2009-2011
Project12-086/2008 PNCDI II Partnership „Ferromagnetic components for microelectromecanic systems”	Key person	2008-2011
Project PN II-PARTNERSHIPS, 32-168 / 2008, "Breathable superhydrophobic nanostructures,,	Research team member	2008-2011
Project no. 12-134 / 2008 PN II Partnerships „ Oxide semiconductor nanodevices for applications in nanoelectronics and nanomedicine,,	Research team member	2008-2011
Project 31-066/ PNCDI II Partnerships „Environmentally friendly ionic liquids with applications in electrochemical surface treatments for high performance."	Key person	2007-2010
Project PN II capacities 58 / cp / I / 2007 "Laboratory destined to microprocessing through LIGA technology,,	Research team member	2007-2010
Project PNCDI II no. Intern 7009/2007 „Center of competence in the characterization of materials through nuclear technologies and new analytical tools of European level, for IMS applications (Industry, Environment, Health),,	Research team member	2007-2010
Project Innovation No. 279/2008, PNCDII Partnerships "Coating technology based on dispersed photocatalytic nanostructured systems with self-cleaning and antimicrobial role for construction applications",	Research team member	2008-2010
CNCSIS Grant type A, code 79, GR49 / 2008, code UPB CH41-06-06 „Electrodeposition of nanoalloys with applications in microelectronics and thermoelectricity,, Phase 2008: "Establishment of specific technological conditions for the	Research team member - PhD student	2008

preparation of nanostructures for different applications of alloys containing Ni (NiW, NiMo) or Sb (BiSb, SbTe, BiSbTe, ZnSb, CoSb) and final recommendations,		
Project PN II no. 71-146/2007, Partnerships “Advanced biomaterials based on bioactive protein structures, nanostructured, doped with metallic nanoparticles,,	Research team member	2007-2010
Project Nucleu PN 09-35-0303, internal number 5303/2009, DEVICE FOR CO2 DETECTION AND RETENTION,,	Research team member	2009-2010
Project PARTNERSHIPS, PNII 41-059 / 2007, Bio / non-bio interactions involved in hard tissue design,,	Research team member	2007-2009
Project Partnerships PNII no: 71-147 / 2007 internal no 7029/2007 ,, “Development of new biomaterials with doped supramolecular collagen structures, with piezoelectric properties, of liquid, electrical and magnetic crystals, used in bioengineering ,,	Research team member	2007-2010
Project PN II capacities 58 / cp / I / 2007 “Laboratory destined to microprocessing through LIGA technology,,	Research team member	2007-2010
CNCSIS Grant type A, code 79, GR69 / 2007, UPB code CH41-06-06, ‘Electrodeposition of nanoalloys with applications in microelectronics and thermoelectricity,, Phase 2007: “Preparation under constant current or pulse conditions and characterization physical-structural, mechanical, as well as anticorrosive and thermoelectric (where applicable) of NiW, BiSb, SbTe and BiSbTe alloys	Research team member - PhD student	2007
Project CEEX-M3-Code 12874/2006 185/2006, “ Promoting a partnership for FP7 projects in the field of micro / nano advanced multifunctional composite materials,,	Research team member	2006-2008
CNCSIS Grant type A, code 79, GR36 / 2006, UPB code CH41-06-06, ‘Electrodeposition of nanoalloys with applications in microelectronics and thermoelectricity,, Phase 2006: Experimental studies and theory on co-deposition processes in some Ni (NiW) alloys and Sb (BiSb, SbTe, BiSbTe)	Research team member - PhD student	2006

Project Nucleu PN 09350201 /2006 ,, Advanced multifunctional materials of carboerogel type with applications in the field of electrical engineering (energy conversion, hydrogen storage, water purification,,	Research team member	2006
CEEX Project, 88/2005, ,, Low cost multifunctional alternative materials, for polymer electrolyte fuel cells (PEMFC) operating at temperatures higher than 180 °C,,	Research team member	2005-2008
Project CEEX-MATNANTECH no. Internal 4184/2006 ,, Polymeric nanostructured composite materials for use in environmental monitoring,,	Research team member	2005-2008
FP6-2004-ACC-SSA-2 " Strengthening of the RDI potential for advanced materials and composites to enhance the performance of the electrical industry " - INDUMAT INCO-CT-2005-017240	Young researcher	2005 - 2008
Partnerships project no. 169 (305) / 2003 " Technologies for obtaining flexible metal foils of Ni-W (Mo) and Sn-Pb (Cu) type by electroforming,,	Young researcher	2005
CERES Project no 68/15.10.2001, ,, Procedures and methodes of biomaterials analyse and characterization by analysis with accelarated fascicles" ;	Student	2002-2004

Date: 03.10 .2022

Dr.ing. Paula PRIOTEASA