



**Curriculum vitae  
Europass**

**Personal information**

Surname / First name **Pogacean Florina**

Address Donat Street 67-103, Cluj Napoca, Romania

Telephone(s) +40(0)264584037, ext 124

E-mail(s) florina.pogacean@itim-cj.ro

Nationality romanian

Data of birth 06 July 1977

Gender Female

Transport Driving license category B

**Employments/  
Occupational field**

Researcher at National Institute for Research and Development of Isotopic and Molecular Technologies, Cluj-Napoca, ROMANIA;

**Work experience**

**2006-present-** Researcher at National Institute for Research and Development of Isotopic and Molecular Technology, Cluj-Napoca, ROMANIA;

**September- 2011-**PhD in Chemistry

**2002-2006** “Babes-Bolyai” University, Cluj-Napoca, Faculty of Chemistry and Chemical Engineering, Ph.D. student in Kinetic Chemistry

**Ph.D. Thesis Title: *Kinetic and Electrochemical method of analysis by means of enzyme and heterogeneous catalyzed reactions.* (Ph.D. adviser: Prof. Dr. Ioan Baldea)**

**Sept. 2001-June 2002** “Babes-Bolyai” University, Cluj-Napoca, Faculty of Chemistry Chemical Engineering

MSc Degree in Applied Electrochemistry, **MSc Thesis title: The kinetic, mechanism and analytical application of decomposition  $H_2O_2$  catalysed enzymatic in the presence of hidroxyamine**

**2001** I began to be member in Chemistry Society from Romania.

**June 2002 -License in Medical Physics** “Babes-Bolyai” University, Cluj-Napoca, Faculty Physics

**Diploma Thesis Title: Utilization of  $\beta$ -blocant drugs (captopril) as inhibitors descomposition of  $H_2O_2$ .**

During the time of my studies I was active as a member in Organization of Chemistry Students.

**June 2001 -License in Chemistry** “Babes-Bolyai” University, Cluj-Napoca, Faculty of Chemi and Chemical Engineering

**Diploma Thesis Title: The kinetic, mechanism and the analytical applications of descomposition  $H_2O_2$  catalised enzymatic in the presence phenolic inhibitors.**

**1998-2002** “Babes-Bolyai” University, Cluj-Napoca, Faculty of Physics, Study of Medical Physic

**1997-2001** “Babes-Bolyai” University, Cluj-Napoca, Faculty of Chemistry and Chemical Engineering, Study of Chemistry

**1992-1996** -Theoretical High School “Victor Ungureanu”, Campia-Turzii

**Research Stay:**

**1 July –1 December 2005 Marie Curie Fellowships Faculty Federico II Napoli, Italy,**

Title of project: Determinate a new diterpene of plants utilization from antitumoral drugs.

Coordinator: Prof. Ernesto Fattorusso

**1 February-1 May 2006 Marie Curie Fellowships Faculty of Chemistry, Wroclaw, Polonia,**

Title of project: Stability of ionic liquids under catalytic reactions conditions.

Coordinator: Prof. Anna Treciak

**Projects:**

- 1. Graphene-based stochastic sensors for molecular diagnosis of upper gastro-intestinal cancer,** Grants of the Romanian National Authority for Scientific Research, CNCS-UEFISCDI, **Project Number PN-III-P4-ID-PCCF-2016-0006, 20PCCF/2018,** Project Coordinator: Dr.Stela Pruneanu, **2018-2022.**
- 2. Interinstitutional program for the development of advanced eco-nanotechnology solutions for multifunctional treatments of leather and textile materials,** Grants of the Romanian National Authority for Scientific Research, CNCS-UEFISCDI, **Project Number PN-III-P1-1.2-PCCDI-2017 0743/44PCCDI/2018,** Project Coordinator: Dr. Marcela Corina Rosu, **2018-2020.**
- 3. New luting materials with graphene used in dentistry,** Grants of the Romanian National Authority for Scientific Research, CNCS-UEFISCDI, **Project Number PN-III-P2-2.1-PED-2016-1907,** Project Coordinator: Dr. Codruta Sarosi, **2016-2018.**

<p style="text-align: center;"><b>Research Focus</b></p>	<ol style="list-style-type: none"> <li>4. <b>Laboratory technology for detection of leukemia biomarkers using new graphene-based materials</b>, Grants of the Romanian National Authority for Scientific Research, CNCS-UEFISCDI, <b>Project Number PN-III-P2-2.1-PED-2016-0392</b>, Project Coordinator: Dr. Stela Pruneanu, <b>2016-2018</b>.</li> <li>5. <b>Electrochemical platform for selective lead ion detection</b>, Grants of the Romanian National Authority for Scientific Research, CNCS-UEFISCDI, <b>Project Number PN-III-P2-2.1-PED-2016-0415</b>, Project Coordinator: Dr. Lidia Magerusan, <b>2016-2018</b>.</li> <li>6. <b>Graphene-porphyrin supramolecular assemblies for chemical and electrochemical detection of hydrogen peroxide an oxidative stress</b>, Grants of the Romanian National Authority for Scientific Research, CNCS-UEFISCDI, <b>Project Number PN-II-RU-TE-2014-4-0305</b>, Project Coordinator: Dr. Crina Socaci, <b>2015-2017</b>.</li> <li>7. <b>New Nanocomposites based on Biocompatible Polymers and Graphene for Dental Application</b>, Grants of the Romanian National Authority for Scientific Research, CNCS-UEFISCDI, <b>Project Number PN-II-PT-PCCA-2013-4-1282</b>, Project Coordinator: Dr. Stela Pruneanu, <b>2013-2017</b></li> <li>8. <b>Graphene-metal nanoparticles based electrodes for detection of pharmaceutical pollutants</b>, Grants of the Romanian National Authority for Scientific Research, CNCS-UEFISCDI, <b>Project Number PN-II-ID-PCE-2011-3-0125</b>, Project Coordinator: Dr. Stela Pruneanu, <b>2011-2016</b>.</li> <li>9. <b>High purity graphene synthesis by CCVD-IH method on noble metals catalysts for DNA oxidation studies</b>, Grants of the Romanian National Authority for Scientific Research, CNCS-UEFISCDI, <b>Project Number PN-II-ID-PCE-2011-3-0129</b>, Project Coordinator: Dr. Biris Alexandru, <b>2011-2016</b>.</li> <li>10. <b>Developing <sup>15</sup>N isotope separation technology at concentration of 99%.<sup>15</sup>N obtaining nuclear fuel required type nitride</b>, Grants of the Romanian National Authority for Scientific Research <b>nr. 74/2006</b>, Project Coordinator: Dr. Axente Damian, <b>2006-2008</b>.</li> <li>11. <b>Kinetic–mathematic modelling of complex reaction</b>, Grants of the Romanian National Authority for Scientific Research <b>CNCSIS, Tip A contract nr.60/164/</b>, Project Coordinator: Prof Dr. Ioan Baldea, <b>2002-2004</b>.</li> </ol> <p>Synthesis and characterization of graphite-based nanomaterials by electrochemical methods, Analytical methods development for organic compounds and pharmaceutical drugs, Electrochemical methods of analysis, Electrochemical sensors, Potentiometry and Electrochemical metods, Enzymatic methods, HPLC, MPLC, RMN, XRD.</p>
--	---

<p><b>Hand-on Experience</b></p> <p><b>Social skills and competences</b></p> <p><b>Computer skill and competences</b></p>	<p>Electrochemical and optical studies on nanomaterials, Cyclic voltammetry, Electrochemical Impedance Spectroscopy UV-Vis absorption spectroscopy Synthesis of metallic nanoparticles (silver and gold) and their application in medicine.</p> <p>Communication skills, ability to work under stress and adaptability to change, teamwork spirit, honesty and fairness</p> <p>Competent with Microsoft Office (Word, Excell, Power Point, Table Curve, Origin, Chem Windows, ChemDraw), Nova .</p>
<p><b>Publications:</b></p>	<ol style="list-style-type: none"> <li>1. Maria Coros, <b>Florina Pogacean</b>, Lidia Magerusan, Crina Socaci, Stela Pruneanu, <b>A brief overview on synthesis and applications of graphene and graphene-based nanomaterials</b>, <b>FRONTIERS OF MATERIALS SCIENCE</b>, 2019, 13(1), 23-32. (Impact Factor=2,019)</li> <li>2. <b>Florina Pogacean</b>, Maria Coros, Lidia Magerusan, Valentin Mirel, Alexandru Turza, Gabriel Katona, Raluca-Ioana Stefan-van Staden, Stela Pruneanu, <b>Exfoliation of graphite rods via pulses of current for graphene synthesis: sensitive detection of 8-hydroxy-2'-deoxyguanosine</b>, <b>Talanta</b>, 2019, 196, 182-190. (Impact Factor=4,244)</li> <li>3. Lidia Magerusan, <b>Florina Pogacean</b>; Maria Coros; Crina Socaci; Stela Pruneanu, Cristian Leostean; Ioan Ovidiu Pana, <b>Green methodology for the preparation of chitosan/graphene nanomaterial through electrochemical exfoliation and its applicability in Sunset Yellow detection</b>, <b>ELECTROCHIMICA ACTA</b>, 2018, 283, 578-589. (Impact Factor=5,116)</li> <li>4. Maria Stefan, Adriana Popa, Ovidiu Pana, Cristian Leostean, Dana Toloman, Diana Lazar, <b>Florina Pogacean</b>, Sergiu Macavei, Simona Gutoiu, <b>Efficient photocatalytic removal of RhB using magnetic Fe<sub>3</sub>O<sub>4</sub>-SnO<sub>2</sub> nanocomposites containing Sn<sup>2+</sup> interstitial impurities</b>, <b>JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS</b>, 2018, 29, 16, 14132-14143. (Impact Factor=2,324)</li> <li>5. <b>Florina Pogacean</b>, Maria Coros, Lidia Magerusan, Marcela-Corina Rosu, Crina Socaci, Stefan Gergely, Raluca-Ioana Stefan van Staden, Marioara Moldovan, Codruta Sarosi, Stela Pruneanu, <b>Sensitive detection of hydroquinone using exfoliated graphene-Au/glassy</b></li> </ol>

**carbon modified electrode, NANOTECHNOLOGY, 2018, 29, 9, pag 095501 (Impact Factor=3,404)**

6. Maria Coros, **Florina Pogacean**, Lidia Magerusan, Marcela-Corina Rosu, Alin Sebastian Porav, Crina Socaci, Attila Bende, Raluca-Ioana Stefan-van Staden, Stela Pruneanu, **Graphene-porphyrin composite synthesis through graphite exfoliation: The electrochemical sensing of catechol, SENSORS AND ACTUATORS B-CHEMICAL, 2018, 256, 665-673, (Impact Factor=5,667)**
7. **Pogacean Florina**, Marcela-Corina Rosu, Maria Coros, Lidia Magerusan, Marioara Moldovan, Codruta Sarosi, Alin-Sebastian Porav, Raluca-Ioana Stefan-van Staden, Stela Pruneanu,, **Graphene/TiO<sub>2</sub>-Ag Based Composites Used as Sensitive Electrode Materials for Amaranth Electrochemical Detection and Degradation, JOURNAL OF THE ELECTROCHEMICAL SOCIETY, 2018, 165, 8, B3054-B3059. (Impact Factor=3,662).**
8. Marcela-Corina Rosu, Maria Coros, **Florina Pogacean**, Lidia Magerusan, Crina Socaci, Alexandru Turza, Stela Pruneanu, **Azo dyes degradation using TiO<sub>2</sub>-Pt/graphene oxide and TiO<sub>2</sub>-Pt/reduced graphene oxide photocatalysts under UV and natural sunlight irradiation, SOLID STATE SCIENCES, 2017, 70, 13-20. (Impact Factor=1,861).**
9. Lidia Magerusan, Crina Socaci, Maria Coros, **Florina Pogacean**, Marcela Corina Rosu, Gergely, Stela Pruneanu, Cristian Leostean, Ioan Ovidiu Pana, **Electrochemical platform based on nitrogendoped graphene/chitosan nanocomposite for selective Pb<sup>2+</sup> detection, NANOTECHNOLOGY, 2017, 28, 11, 114001. (Impact Factor=3,404).**
10. Marcela-Corina Rosu, Ernoke Pall, Crina Socaci, Lidia Magerusan, **Florina Pogacean**, Maria Coros, Alexandru Turza, Stela Pruneanu, **Cytotoxicity of methylcellulose-based films containing graphenes and curcumin on human lung fibroblasts, PROCESS BIOCHEMISTRY, 2017, 52, 243-249. (Impact Factor=2,616).**
11. **Florina Pogacean**, Alexandru Radu Biris, Crina Socaci, Maria Coros, Lidia Magerusan, Marcela-Corina Rosu, Mihaela Diana Lazar, Gheorghe Borodi, Stela Pruneanu, **Graphene-bimetallic nanoparticle composites with enhanced electro-catalytic detection of bisphenol A, NANOTECHNOLOGY, 2016, 27, 48,**

484001, (**Impact Factor=3,404**).

12. Lidia Magerusan, **Florina Pogacean**, Crina Socaci, Maria Coros, Marcela-Corina Rosu, Stela Pruneanu, **Charge transfer-resistance in nitrogen-doped/undoped graphene: Its influence on the electro-catalytic reduction of H<sub>2</sub>O<sub>2</sub>**, **ELECTROCHIMICA ACTA**, 2016, 220, 664-671. (**Impact Factor=5,116**).
13. Marcela Rosu, Crina Socaci, Veronica Floare-Avram, Gheorghe Borodi, **Florina Pogacean**, Maria Coros, Lidia Magerusan, Stela Pruneanu, **Photocatalytic performance of graphene/TiO<sub>2</sub>-Ag composites on amaranth dye degradation**, **MATERIALS CHEMISTRY AND PHYSICS**, 2016, 179, 232-241. (**Impact Factor=2,21**).
14. Crina Socaci, **Florina Pogacean**, Alexandru Radu Biris, Maria Coros, Marcela Corina Rosu, Lidia Magerusan, Gabriel Katona, Stela Pruneanu, **Graphene oxide vs. reduced graphene oxide as carbon support in porphyrin peroxidase biomimetic nanomaterials**, **TALANTA**, 2016, 148, 511-517. (**Impact Factor=4,244**).
15. Lidia Magerusan, Crina Socaci, **Florina Pogacean**, Marcela-Corina Rosu, Alexandru Radu Biris, Maria Coros, Alexandru Turza, Veronica Floare-Avram, Gabriel Katona, Stela Pruneanu, **Enhancement of peroxidase-like activity of N-doped graphene assembled with iron-tetrapyridylporphyrin**, **RSC ADVANCES**, 2016, 6, 83, 79497-79506, (**Impact Factor=2,936**).
16. Maria Coros, **Florina Pogacean**, Marcela-Corina Rosu, Crina Socaci, Gheorghe Borodi, Lidia Magerusan, Alexandru Radu Biris, Stela Pruneanu, **Simple and cost-effective synthesis of graphene by electrochemical exfoliation of graphite rods**, **RSC ADVANCES**, 2016, 6, 4, 2651-2661, , (**Impact Factor=2,936**).
17. Diana Olteanu, Adriana Filip, Crina Socaci, Alexandru Radu Biris, Xenia Filip, Maria Coros, Marcela Corina Rosu, **Florina Pogacean**, Camelia Alb, Ioana Baldea, Pompei Bolfa, Stela Pruneanu, **Cytotoxicity assessment of graphene-based nanomaterials on human dental follicle stem cells**, **COLLOIDS AND SURFACES B-BIOINTERFACES**, 2015, 136, 791-798, (**Impact Factor=3,997**).
18. **Florina Pogacean**, Crina Socaci, Stela Pruneanu, Alexandru Radu Biris, Maria Coros, Lidia Magerusan, Gabriel Katona, Rodica Turcu, Gheorghe Borodi, **Graphene based**

**nanomaterials as chemical sensors for hydrogen peroxide - A comparison study of their intrinsic peroxidase catalytic behavior, SENSORS AND ACTUATORS B-CHEMICAL, 2015, 213, 474-483. (Impact Factor=5,667)**

19. Camelia Berghian-Grosan, Alexandru Radu Biris, Maria Coros, **Florina Pogacean**, Stela Pruneanu, **Electrochemical and spectroscopic studies Of ssDNA damage induced by hydrogen peroxide using graphene based nanomaterials, TALANTA, 2015, 139, 209-217. (Impact Factor=4,277)**
20. Stela Pruneanu, Alexandru Radu Biris, **Florina Pogacean**, Crina Socaci, Maria Coros, Marcela Corina Rosu, Fumiya Watanabe, Alexandru Sorin Biris, **The influence of uric and ascorbic acid on the electrochemical detection of dopamine using graphene-modified electrodes, ELECTROCHIMICA ACTA, 2015, 154, 197-204. (Impact Factor=5,116)**
21. **Florina Pogacean**, Alexandru Radu Biris, Crina Socaci, Veronica Floare-Avram, Marcela Corina Rosu, Maria Coros, Stela Pruneanu, **Electrochemical Degradation of Carbamazepine using Modified Electrode with Graphene-AuAg Composite, 10TH INTERNATIONAL CONFERENCE PROCESSES IN ISOTOPES AND MOLECULES (PIM 2015), 2015, AIP Conference Proceedings,1700, 060003.**
22. Stela Pruneanu, Alexandru R. Biris, **Florina Pogacean**, Maria Coros, Ganesh K. Kannarpady, Fumiya Watanabe, Alexandru S. Biris, **The study of adenine and guanine electrochemical oxidation using electrodes modified with graphene-platinum nanoparticles composites, ELECTROCHIMICA ACTA, 2014, 139, 386-393. (Impact Factor=4,086)**
23. **Florina Pogacean**, Alexandru R. Biris, Maria Coros, Fumiya Watanabe, Alexandru S. Biris, Simona Clichici, Adriana Filip, Stela Pruneanu, **Electrochemical oxidation of adenine using platinum electrodes modified with carbon nanotubes, PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, 2014, 59, 181-185. (Impact Factor=1,856)**
24. **Florina Pogacean**, Alexandru R. Biris, Maria Coros, Mihaela D. Lazar, Fumiya Watanabe, Ganesh K. Kannarpady, Al Said Said A. Farha, Alexandru S. Biris, Stela Pruneanu, **Direct electrochemical oxidation of S-captopril using gold electrodes**

**modified with graphene-AuAg nanocomposites, INTERNATIONAL JOURNAL OF NANOMEDICINE, 2014, 9, 1111-1125. (Impact Factor =4,195)**

25. Maria Coros, Alexandru Radu Biris, **Florina Pogacean**, Lucian Barbu Tudoran, Camelia Neamtu, Fumyia Watanabe, Alexandru Sorin Biris, Stela Pruneanu, **Influence of chemical oxidation upon the electro-catalytic properties of graphene-gold nanoparticle composite, ELECTROCHIMICA ACTA, 91, 137-143, 2013. (Impact Factor=4,086)**
26. Stela Pruneanu, **Florina Pogacean**, Alexandru Radu Biris , Maria Coros, Fumya Watanabe Enkeleda Dervishi, Alexandru Sorin Biris, Electro-catalytic properties of graphene composites containing gold or silver nanoparticles, **ELECTROCHIMICA ACTA, 89, 246-252, 2013. (Impact Factor=4,086)**
27. Camelia Berghian-Grosan, Alexandru Radu Biris, Stela Pruneanu, Mihaela Diana Lazar, **Florina Pogacean**, Fumyia Watanabe, Alexandru Sorin Biris, **Electrochemical Oxidation of Adenine on Graphene-Platinum Nanoparticles Modified Electrode, PROCESSES IN ISOTOPES AND MOLECULES (PIM 2013), 2013, 1565, 219-223, AIP Conference Proceedings.**
28. Radu Alexandru Biris, Stela Pruneanu, **Florina Pogacean**, Mihaela Diana Lazar; Gheorghe Borodi, Stefania Ardelean, Enkeleda Dervishi, Fumyia Watanabe, Alexandru Sorin Biris, **Few-layer graphene sheets with embedded gold nanoparticles for electrochemical analysis of adenine, INTERNATIONAL JOURNAL OF NANOMEDICINE, 8, 1429-1438, 2013. (Impact Factor= 4.370)**
29. Stela Pruneanu, Alexandru Radu Biris, **Florina Pogacean** ; Diana Mihaela Lazar, Stefania Ardelean, Fumyia Watanabe, Enkeleda Dervishi, Alexandru Sorin Biris, **Novel Multifunctional Graphene Sheets with Encased Au/Ag Nanoparticles for Advanced Electrochemical Analysis of Organic Compounds, CHEMPHYSICHEM, 13(16), 3632-3639, 2012. (Impact Factor= 3.349)**
30. Stela Pruneanu, Liliana Olenic, **Florina Pogacean** , Lucian Barbu Tudoran, Valentin Canpean, Adriana Vulcu, Camelia Grosan, Alexandru Sorin **Biris**, **Nanostructures Based On Metallic Nanoparticles And Biomolecules, PROCESSES IN ISOTOPES AND MOLECULES (PIM 2011), AIP Conference Proceedings 1425, 144-147, 2012.**



31. Stela Pruneanu , **Florina Pogacean**, Alexandru Radu Biris, Stefania Ardelean, Valentin Canpean, Gabriela Blanita, Enkeleda Dervishi, Alexandru Sorin Biris, **Novel Graphene-Gold Nanoparticle Modified Electrodes for the High Sensitivity Electrochemical Spectroscopy Detection and Analysis of Carbamazepine**, **JOURNAL OF PHYSICAL CHEMISTRY C**, 115 , 47, 23387-23394, 2011. (Impact Factor =4,085)
32. Stela Pruneanu, **Florina Pogacean**, Camelia Grosan, Eleonora Maria Pica, Bolundut, Liviu , Alexandru Radu Biris, **Electrochemical investigation of atenolol oxidation and detection by using a multicomponent nanostructural assembly of amino acids and gold nanoparticles**, **CHEMICAL PHYSICS LETTERS**, 504(1-3), 56-61, 2011. (Impact Factor =2,337)
33. **Florina Pogacean**, Ioan Baldea, Liliana Olenic, Stela Pruneanu, Alexandru Sorin Biris, **Kinetic Determination of Drug Particles Concentration via Enzyme-Catalyzed Decomposition of Hydrogen Peroxide**, **PARTICULATE SCIENCE AND TECHNOLOGY**, 29, 6, 493-502, 2011. (Impact Factor =0,545)
34. Dana Vlascici, Stela Pruneanu, Liliana Olenic, **Florina Pogacean**, Vasile Ostafe, ; Vlad Chiriac, ; Eleonora Maria Pica, Liviu Calin Bolundut, ; Luminita Nica, ; Eugenia Fagadar-Cosma, , **Manganese(III) Porphyrin-based Potentiometric Sensors for Diclofenac Assay in Pharmaceutical Preparations**, **SENSORS**, 10, 8850-8864, 2010. (Impact Factor =1,771)
35. Ana Maria Orza, Liliana Olenic, Stela Pruneanu, **Florina Pogacean**, Alexandru Sorin Biris, **Morphological and electrical characteristics of amino acid-AuNP nanostructured two-dimensional ensembles**, **CHEMICAL PHYSICS**, 373, 3, 295-299, 2010. (Impact Factor =2,92)
36. Claudia Muresanu, Lucian Copolovici, **Florina Pogacean**, **A kinetic method for para-nitrophenol determination based on its inhibitory effect on the catalytic reaction of catalase**, **CENTRAL EUROPEAN JOURNAL OF CHEMISTRY**, 3, 4, 592-604, 2005. (Impact Factor =0,991)

**Chapter in Book**

1. **Florina Pogacean**, Stela Pruneanu, Liliana Olenic, *New hybrid materials with applications*

<b>Patents</b>	<p><i>in microelectronics</i>, Recent Res. Devel. Mat. Sci., 9, <b>2012</b>: 117-135 ISBN: 978-81-308-0466-8.</p> <p>2. Stela Pruneanu, Maria Coros, <b>Florina Pogacean</b>, <i>Bio-Functionalized Metallic Nanoparticles with Applications in Medicine, Handbook of Nanoparticles, 2015</i>, DOI 10.1007/978-3-319-13188-7_36-1, Springer International Publishing.</p> <p>1. Valer Almasan, Liliana Olenic, <b>Florina Pogacean</b>, Stela Pruneanu, <b>Procedeu de realizare a unui electrod de carbune sticlos, modificat cu un ansamblu nanostructurat pe baza de nanoparticule de aur si L-cisteina, (Fabrication of a glassy carbon electrode modified by gold nanoparticles and L-cysteine)</b>, RO-Nr. 129261-A2, 30.01.2017.</p> <p>2. Stela Pruneanu, Alexandru Radu Biris, Diana Mihaela Lazar, Maria Coros, <b>Florina Pogacean</b>, <b>Procedeu de preparare a unui material compozit pe baza de grafene si nanoparticule bimetalice, (Synthesis of a composite material based on graphene and bimetallic nanoparticles)</b>, RO-Nr.130085 B1, 30.03.2018.</p> <p>3. Magerusan Lidia, Socaci Crina, Coros Maria, Rosu Marcela Corina, <b>Pogacean Florina</b>, Pruneanu Stela Maria, <b>Prepararea, proiectarea si aplicatiile electrochimice ale unui nou material nanocompozit pe baza de chitosan si Grafene N-Dopate la detectia ionilor metalici, (Preparation, design and applicability of a new chitosan N-doped graphene nanocomposite in electrochemical heavy metal ion detection)</b>, sent OSIM –May 2016. (Registration number: A/00311 - 04.05.2016)</p> <p>4. Rosu Marcela Corina, Coros Maria, Socaci Crina, Magerusan Lidia, <b>Pogacean Florina</b>, Pruneanu Stela Maria, <b>Materiale composite pe baza de TiO<sub>2</sub>-Pt/ Oxid de grafena si TiO<sub>2</sub>-Pt/ Oxid de grafena redus pentru fotodegradarea colorantilor de tip azoic din ape, (Composite materials based on TiO<sub>2</sub>-Pt/graphene oxide and TiO<sub>2</sub>-Pt/reduced graphene oxide for photodegradation of azo-dyes from water)</b>, sent OSIM –October 2016. (Registration number: A/00731 - 14.10.2016)</p> <p>5. Coros Maria, Socaci Crina, Pruneanu Stela Maria, <b>Pogacean Florina</b>, Rosu Marcela Corina, Magerusan Lidia, <b>Procedeu de preparare electrochimică a unui nou material compozit pe bază de grafene si porfirină si aplicația acestuia, (Method for electrochemical synthesis of new composite material based on graphene and porphyrin</b></p>
----------------	--

	<p>and its application), sent OSIM –April 2016. (Registration number: A/00208 - 05.04.2017)</p> <p>6. Valentin Mirel, Florina Pogacean, Maria Coros, Stela Maria Pruneanu, <b>Sistem de control al procesului de exfoliere electrochimică a grafitului în scopul obținerii de grafene, (Electronic system for controlling the electrochemical exfoliation of graphite and synthesis of graphene)</b>, sent OSIM –April 2018. (Registration number: A/00904 -16.11.2018 )</p>
<b>PAPERS presented at conferences</b>	Various presentations at National and International Conferences
<b>Member of National Scientific Societies</b>	<p>Since 2001 member of the Chemical Society</p> <p>Since 2010 member of the Catalysis Society</p>