

## CURRICULUM VITAE

1. Family name: **PETRICEANU**

2. First name: **MIRELA**

3. Professional Education:

<b>Institution:</b>	University POLITEHNICA of Bucharest, Faculty of Industrial Chemistry	University POLITEHNICA Bucharest, Faculty of Industrial Chemistry, Section - Technology of Inorganic Compounds
Period: from (month, year) to (month, year)	October 2008– July 2010	October 2001– July 2007
Titles or obtained diplomas	<b>Master in Science</b> - Master diploma in “Analytical control of environmental quality and decontamination techniques	<b>Diploma engineer in chemistry</b>

4. Scientific title: **Scientific Researcher III**

5. Professional Experience:

Period: from (month, year) to (month, year)	October 2007 – December 2013	January 2013 – October 2016	December 2018
<b>Location:</b>	<b>Nanostructured Material Laboratory</b>	<b>Nanostructured Material Laboratory</b>	<b>Technology Transfer Centre for Advanced Materials CTT AVANMAT</b>
<b>Institution:</b>	National R&D Institute for Nonferrous and Rare Metals-IMNR	National R&D Institute for Nonferrous and Rare Metals-IMNR	National R&D Institute for Nonferrous and Rare Metals-IMNR
<b>Position:</b>	<b>Scientific research assistant</b>	<b>Scientific Researcher</b>	<b>Intellectual Property Specialist (: Scientific Researcher III since 1.05.2019)</b>
<b>Job description:</b>	Data base development for nanostructured hybride materials Hydrothermal synthesis of nanostructured materials (powders) Activities in the field of nanomaterial synthesis. Participation as young researcher in national and international projects. Stabilization of the suspensions and dimensional characterization of the nanoparticles in colloidal suspensions using the NANOSIZER ZS 90 Granulometer from Malvern.	Activities in the field of nanomaterial synthesis. Hydrothermal synthesis of nanostructured materials (powders). The study of the nanostructured materials regarding environmental impact. Stabilization of the suspensions and dimensional characterization of the nanoparticles in colloidal suspensions using the NANOSIZER ZS 90 Granulometer from Malvern. Participation as young researcher in the national and international projects.	Assistance and consulting in any issue related to the protection of copyright and related rights, protection of industrial property rights (patents, copyrights, trademarks, drawings, 3D models, graphics) during the proceedings in front of OSIM. Promote projects R&D projects and disseminate results: organize events, elaborate dissemination materials, prepare and participate in events (R&D / innovation fairs, exhibits, brokerage events, etc.)

6. Current workplace and position: **National Institute for Research and Development for Non-Ferrous and Rare Metals - IMNR), Intellectual Property Specialist**

7. Experience at the current job: **9 years**

8. Patents / inventions:

9. Written papers and / or published:

- Cristina Rusti, **Mirela Petriceanu (Parvulescu)**, Roxana M.Piticescu, Radu R.Piticescu, „The stability study of the TiO<sub>2</sub> suspension used to thin film deposition”-Proceedings – Simpozionul National al tinerilor cercetatori in domeniul ingineriei materialelor ROMAT Junior2008 (Bucuresti 30-31 mai)
- R.R.Piticescu, R.M. Piticescu, A.M. Motoc, **M.Petriceanu (Parvulescu)**, I. Grozescu „Solvothermal Synthesis of Nanostructured Ag-ZnO and Ag doped TiO<sub>2</sub> powders”-Abstract Book 2008 Aristotle University of Thessaloniki – Grecia.
- R.R.Piticescu, R.M. Piticescu, Cristina Rusti, **M.Petriceanu (Parvulescu)**, Paul Stanciu, Petre Berechet – „Metode inovative de sinteza a nanomaterialelor pe baza de TiO<sub>2</sub> si ZnO cu aplicatii in tesaturi cu proprietati antiseptice, - TexTech 2
- C.Rusti, **Mirela Petriceanu**, R.R.Piticescu, R.M. Piticescu, S.Tanasescu „Characterization of Hydrothermal synthesized nanostructured TiO<sub>2</sub> by DSC method” - ROMPHYSICHEM 14-2010.
- M.Popescu, R.M. Piticescu, E.Vasile, D.Taloi, M.Petriceanu, M Stoiciu, V.Badilita – „The influence of Synthesis Parameters of FeO(OH) /Fe<sub>2</sub>O<sub>3</sub> formation by hydrothermal Techniques” - Zeitschrift fur Naturforschung - Section B Journal of Chemical Sciences.65(8), pp. 1024-1032 -2010.

6. Tudor, I.A., **Petriceanu, M.**, Piticescu, R.-R., Piticescu, R.M., Predescu, C.- Hydrothermal synthesis of doped ZnO and TiO<sub>2</sub>nanomaterials: Opportunities for textile applications” -UPB Scientific Bulletin, Series B: Chemistry and Materials Science76(3), pp. 207-215 (2014)
8. Popescu, L.M., Piticescu, R.M., **Petriceanu, M.**, (...), Schinteie, G., Kuncser, V.- Hydrothermal synthesis of nanostructured hybrids based on iron oxide and branched PEI polymers. Influence of high pressure on structure and morphology”- Materials Chemistry and Physics161,18116, pp. 84-95(2015)
9. Piticescu, R.R., Valsan, S.N., **Petriceanu, M.**, (...), Vasile, B., Raita, O.- Kinetic studies on the hydrothermal crystallization of Co-doped nanostructured TiO<sub>2</sub> anatase with ferromagnetic properties”- Journal of Optoelectronics and Advanced Materials17(5-6), pp. 646-654 (2015)
10. Motoc. A.M, Tudor I.A., **Petriceanu M.**, (...), Celzard A., Piticescu R.R – „In-situ synthesis and attachment of colloidal ZnO nanoparticles inside porous carbon structures-Materials Chemistry and Physics 161,18137, pp. 219-227 (2015)

**10. Member of professional associations:**

Member of the Romanian Society of Biomaterials

**11. Foreign languages:** English, French.

**12. Other skills:** (ex: experienced user of Windows 10, Office 2016 (Word, Excel, Power Point),

**13. Trainings and qualifications (selection):**

**Training courses**

- Mention at “Simpozionul National al tinerilor cercetatori in domeniul ingineriei materialelor ROMAT Junior 2008” (Bucuresti 30-31 mai)
- July 2008 - participation at “2<sup>nd</sup> International Summer School on Nanosciences&Nanotechnologies” – Aristotle University of Thessaloniki- Grecia
- February-April 2009: participation at Course “Organizarea optimală a activității de cercetare și modelarea proceselor tehnologice”, organized by INCDMNR – CTT AVANMAT
- Intellectual Property course, organized by CIT IRECSO (23-27 may 2019) – diploma

**Internships / Summer schools (selection)**

- July 2008: participation at 2<sup>nd</sup> International Summer School on “Nanosciences & Nanotechnologies” (SS-NN08), University Aristoteles, Thessaloniki, Greece-diploma
- October 2014 participation at 5<sup>th</sup> Symposium on Transparent Conductive Materials, 12-17 Octombrie 2014, Platania-Chania, Creta, Grecia-diploma

**14. Gained experience in different national / international programs (selection):**

<b>Program/Project</b>	<b>Position</b>	<b>Period: from... to...</b>
CEEX Project, no. 69/2006 „Services and Research Network for nanostructures synthesis with advanced applications in textile industry, protective coatings and environmental protection” – SINAPS	Participant	2006-2008
Ctr. Nr.23N/2006 (cod PN06-23.04.07) „Ecological synthesis technologies for nanostructured materials with advanced application” – FN ECOLOGICE	Participant	2007-2008
CNMP Project “Hybrid nanostructured materials for sensors with potential use in therapy and diagnosis” – HINAMASENS	Participant	2007-2010
INNOVATION Project “Triglycerides and Ag doped ZnO nanoparticles Impregnated bandages for treating wounds with high risk of supra-infection” - PANSAG	Participant	2008-2010
CNMP Project “New technological concepts regarding the development of some nanomaterials with low environmental impact” – TECNANOECO	Participant	2008-2011
Ctr 7-073/2013 “Integrated manufacturing process for textiles applications and wood protection” – MANUCOAT	Participant	2013-2015
”PPI/PEI dendrimers immobilised iron oxide nanoparticles as contrast agents for cancer detection” – NANOCAGE	Participant	2012-2016
”A fast process and production system for high-throughput, highly flexible and cost-efficient volume production of miniaturised components of a wide range of materials” – μFAST	Participant	2013-2017