

PERSONAL INFORMATION

Birth date: 11.04.1956
 INCDMNR-IMNR, Blvd. Biruintei 102, Pantelimon, Ilfov, Romania
 +4021 3522048 / 113
rpiticescu@imnr.ro

Professional Experience

- 02.01.2017– present Scientific Researcher I
 INCDMNR-Laboratory for Advanced and Nanostructured Materials
 Bd. Biruintei 102, Pantelimon, Ilfov
 Sector: Research and Development
- 01.06.2011 – 18.06.2013 Trainer of trainees
 INCDMNR-CTT AVANMAT
 Bd. Biruintei 102, Pantelimon, Ilfov
 Sector: Research and Development
- 01. 2005 – 31.12.2016 Scientific Researcher I
 INCDMNR-Laboratory for Nanostructured Materials
 Bd. Biruintei 102, Pantelimon, Ilfov
 Sector: Research and Development
- 01.1990 – 12..2004 Scientific Researcher III, Head of Ceramic Materials Group
 IMNR S.A.-Laboratory for Refractory Materials
 Bd. Biruintei 102, Pantelimon, Ilfov
 Sector: Research and Development
- 05.1982-01.1990 Scientific Researcher
 Institute for Inorganic Chemistry and Nonferrous Metals - IAMN
 Bd. Biruintei 102, sector 2, Bucuresti
 Sector: Research and Development
- 09.1981-05.1982 Diplomat engineer
 Special Steels Factory Targoviste and Metallurgical Enterprise NEFERAL
 Sector: Metallurgy

EDUCATION and TRAINING

- 02.06 – 05.07. 2014 Technology Broker
 Certificate 00374761
 Issued by: Institute IRECSON Bucharest
- 15-29 March 2011 Trainer of Trainees
 Certificate series F Nr. 0287081
 Issued by: EURO BEST TEAM srl
- 17 - 20 November 2008 Post-University studies: Management of European Projects
 Certificate 2188/16.12.2008
 Issued by Romanian Trade Chamber and University Politehnica Bucharest
- 09.1991-02.1998 PhD in Engineering Sciences
 PhD diploma: Series P Nr. 0001086
 Issued by University Politehnica Bucharest
- 09.1976-06.1981 Metallurgical Engineer
 Diploma 90729/28.05.1982
 Polytechnic Institute Bucharest

COMPETENTE PERSONALE

Mother tongue
 Foreign Languages

	Romanian				
	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Participation to conversation	Speech	
English	C1	C1	C1	C1	C1
	Certificate (if is the case)				
French	B2	B2	B2	B2	B2

Digital competences: MS Office; HSC Chemistry; Thermokinetics; Matchad

Coordinated Projects

- Project Director MANUNET 3733 Novel technology for manufacturing a multifunctional hybrid membrane for advanced purification of waste waters NYMPH (2020-2022)
- Director proiect 503PED/ 23.10.2020 EB-PVD modernized system for development and assessment of thermal barriers for aeronautics AEROCOAT (2020-2022)
- Project Responsible ERAMIN „ Recovery of Rare Earth Elements from complex ores in Turkey and their potential use in High-Tech Industrial Applications – RETECH (2020-2023)
- Project director H2020 TWIN 692216 „ Virtual Centre for Sustainable Integration of synthesis and processing of Advanced Materials for Extreme Conditions -SUPERMAT (2016-2018)
- Technical Director Structural Funds Project POC A1—1.1.4 E-2015 ID P37_776 , ctr. 93/09.09.2016 „Innovative Methods for Enhancing the Thermal Energy Storage properties of Phase Change Materials-ENERHIGH” (2016-2019)
- Project Director ERAMIN II COFUND ID 87, ctr. 50/2018 „New Concepts for Efficient Extraction of Rare Earth Oxides from Monazite Concentrates and Their Potential use in High Temperature Coatings and sintered Materials-MONAMIX”(2018-2021)
- Project Responsible FP7-Factory of Future-NMP-2013 – ID 608720 “ MicroFAST”(2013-2017)
- Project Responsible FP7-Energy- ID 296006 „ SAM.SSA” (2012-2015)
- Project Responsible FP7-NMP- ID 228814 „Supersonic Deposition of Nanostructured Surfaces – SUPERSONIC” (2009-2013)
- Project Responsible FP6-NMP2-CT 2006 – ID 02647 „Direct Ultraprecision Manufacturing – MANUDIRECT”(2006-2010)
- Scientific Responsible NATO Science for Peace Project NATO SfP 9734054 „Zirconia Nanomaterials”(2000-2004)
- Project Responsible POSDRU ID 58103 „Vocational continuous Training in the field of Mechanics and Mechatronics – PROFMEC (2010-2013)
- Project Technical Responsible POS CCE 2.2.1 ctr. 898 „Centre for the Intensification of Metallurgical Processes at High Pressures and Temperatures – HighPTMET” (2010-2012)

Books/Book chapters

- Marioara Abrudeanu, Robert Piticescu, Roxana Piticescu, Chemical Synthesis of Ultra-disperse Ceramic Powders, Ed. Tehnica, Bucuresti, 2000 (with financial support from a TEMPUS project)
- Radu Piticescu, Roxana M. Piticescu, M.L. Popescu, Training course for specialists on Advanced Materials for Applications in Mechanical and Mecatronics, Avanmat Editure, 2012
- M.Prakasam, S. Valsan, Y.Lu, F. Balima, W. Lu, R.R. Piticescu, A. Largeteau, „Nanostructured Pure and doped Zirconia: Synhtesis and Sintering for SOFC and optical Applications: chpater 5 in Sintering of nanostructured Ceramics, Intechopen 2018
- C.F. Ciobota, S.N. Valsan, V. Dragut, A.E.Slobozeanu, M. Prakasam, A. Largeteau, F. Balima, M.L. Grilli, R.R. Piticescu, Synthesis of nanostructured mixed rare earth oxides and their use in designing of sintered zirconia ceramics, Nanomaterials: Functional Properties and Applications, vol. 28, pg.203-215, Editura Academiei Romane 2020, ISBN 978-973-27-3290-8

Patents (selection)

- Patent EP 3450010 (European Patent Bulletin 10/06.03.2019 pp.300) „ Inorganic phase change materials based on potassium nitrate micro encapsulation process in a nanostructured inorganic zinc oxide shell with application in thermal energy storage”
- RO Patent 133424/2017 “Process for Obtaining ZnO micro-capsules containing Phase Change Materials”
- RO Patent 129568 /2016 “Hydrothermal-electrochemical in-situ process for obtaining of thin nanostructured films based on doped Titanium Dioxide”

ISI Publicaitons
(selection)

- R.R. Piticescu, D. Taloi, Claude Monty, C. Bogdanescu, "Hydrothermal Synthesis of nanostructured Materials", J. Eur. Ceramic Soc. Vol 21, no.10-11, pp.2057-60
- Roxana M. Piticescu, R. R. Piticescu, D.Taloi, V. Badilita "Hydrothermal synthesis of ceramic nanomaterials for functional applications", Nanotechnology vol. 14, no. 3., pp. 312-17, February 2003
- C. Monty, F. Sibieude, R.R. Piticescu, A. Motoc, B. Malic, M. Kosec, G. Petot-Ervas, "Preparation and ionic transport properties of yttria-doped zirconia nanomaterials", J. Eur. Ceram. Soc. Vol.24, pp.1941-1944 (2004)
- R.R. Piticescu, C. Monty and D. Millers, "Hydrothermal synthesis of nanostructured zirconia materials: state of the art and future prospects, Sensor and Actuators B, vol 109, No. 1, pp102-106 (2005)
- R.R. Piticescu, C. Monty and D. Millers, "Synthesis of Al-doped ZnO nanomaterials with controlled luminescence", J. Eur.Ceram.Soc., 26, pp. 2979-2983 (2006)
- Roxana M.Piticescu, Paula Vilarinho, Madalina L. Popescu, R.R.Piticescu, „Perovskite nanostructures obtained by hydrotherma electrochemical process", J. Eur.Ceram.Soc., 26, pp. 2945-2949 (2006)
- T. Strachowski, E. Grzanka, W. Lojkowski, A. Presz, M. Godlewski, S. Yatsuneneko, H. Matysiak, R. R. Piticescu, C. J. Monty, "Morphology and luminescence properties of zinc oxide nanopowders doped with aluminum ions obtained by hydrothermal and vapor condensation methods", J. Appl. Phys. 102, 073513 (2007)
- J. Fidelusz, R.R.Piticescu, R.M.Piticescu, W. Lojkowski, „Solvothormal synhtesis of Co-doped ZnO Nano-powders", Zeitschrift fut Naturforschung B-Chemical Sciences, vol. 63 (6), pp. 725-729 (2008)
- E.P. Georgiou, S. Achanta, S. Dosta, J. Fernandez, P.Matteazzi, J. Kusinski, R.R. Piticescu, J.-P. Celis, „Structural and tribological properties of supersonic sprayed Fe-Cu-Al-Al₂O₃ nanostructured cermets", Applied Surface Science (2013), doi:10.1016/j.apsusc.2013.01.072. (premiat UEFISCDI)
- M. N. Grecu, D. Macovei, D. Ghica, C. Logofatu, S. Valsan, N. G. Apostol, G. A. Lungu, R. F. Negrea, R. R. Piticescu, „Co environment and magnetic defects in anatase CoxTi12xO2 nanopowders", Appl phys.Lett. 102, 161909 (2013)
- A.M. Motoc, A.I. Tudor, M. Petriceanu, A. Celzard, R.R. Piticescu, „In-situ synthesis and attachment of colloidal ZnO nanoparticles inside porous carbon structures", Mat. Chem. Phys. 2015, DOI: 10.1016/j.matchemphys.2015.05.039
- R.R.Piticescu, M.Urbina, A.Rinaldi, S.C. Lopez, A.Sobetskii, „ Development of Novel Material Systems and Coatings for extreme environments: a brief overview", JOM (2019) 71:683-690, DOI 10.1007/s11837-018-3273-6
- A.I.Tudor, A.M.Motoc, C.F.Ciobota, D.N.Ciobota, R.R.Piticescu, M.D.Romero-Sanchez, „ Solvothormal Method as a Green Chemistry solution for micro-encapsulation of phase change materials for high temperature thermal energy storage", Manufacturing Review (2018). vol. 5, no.4. DOI: <https://doi.org/10.1051/mfreview/2018004>
- MD.Romero-Sanchez, R.R.Piticescu, A.M.Motoc, M.L.Cursaru, A.I.Tudor, Preparation of microencapsulated KNO₃ by solvothormal technologyfor thermal energy storage, JTAC <https://doi.org/10.1007/s10973-019-08825-1>
- A.M.Motoc, S. Valsan, A.E.Slobozeanu, M. Corban, D. Valerini, M. Prakasam, M.Botan, V.Dragut, B.S.Vasile, A.V. Surdu, R. Trusca, M.L.Grilli, R.R.Piticescu, Design, Fabrication, and Characterization of New Materials Based on Zirconia Doped with Mixed Rare Earth Oxides: Review and First Experimental Results, Metals 2020, 10, 746; doi:10.3390/met10060746