





PERSONAL INFORMATION

SLOBOZEANU ANCA ELENA



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 Anca Elena Slobozeanu
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 Gender Female | Date of birth 30.10.1993 | Nationality Romanian

WORK EXPERIENCE

Scientific research

Advanced and Nanostructured Materials Laboratory, NATIONAL R&D INSTITUTE FOR NONFERROUS AND RARE METALS- IMNR, 102 Biruintei Blvd., Pantelimon, Ilfov

Participation in the project development teams;
 Participation in national / international research project teams;
 Participation in national / international internships;
 Participation in dissemination activities;
 Elaboration of activity reports, scientific articles;
 Responsible for planning, coordinating and organizing activities for determining particle size and zeta potential by DLS method with Zetasizer and determining contact angle with Drop Shape Analyzer_DSA 100, KRUSS;
 Research activities in the synthesis and characterization of nanostructural materials;
 Participation in the elaboration of the documents regarding the audit and risk management in the laboratory.

01 October 2016
 -
 Present

Research

Responsabil Sistem de Management al Calității

Technology Transfer Center for Advanced Materials CTT AVANMAT,, NATIONAL R&D INSTITUTE FOR NONFERROUS AND RARE METALS- IMNR, 102 Biruintei Blvd., Pantelimon, Ilfov

Participation in the creation/completion of the necessary documents for the Quality Management System;
 Collaborates with the Quality Manager to maintain the QMS.

01 August 2022
 -
 Present

Management

Marketing specialist

NATIONAL R&D INSTITUTE FOR NONFERROUS AND RARE METALS- IMNR, 102 Biruintei Blvd., Pantelimon, Ilfov

Development / updating of databases on scientific production;
 Participation in the realization of the Promotion Strategy of the institute;
 Contributions to the promotion of the institute's services and R&D results;
 Contributions to the elaboration of market studies on areas of interest.

October 2019
 -
 April 2021

Marketing / Research

Responsible for the process

SPIN OFF HYNAMAT SRL

Coordinating and organizing activities for determining particle size and zeta potential by DLS method with Zetasizer.

October 2020
 -
 Present

Internship

Rennes National School of Chemistry, France 11, allée de Beaulieu - CS50837 35708 Rennes cedex 7

1 Februarie 2016
 -
 1 Mai 2017

Studies on the impact of pharmaceuticals on aqueous media;
 Studies on water purification by advanced oxidation processes;
 Planning and organizing research activities (preparation of standard solutions, analysis solutions);
 Handling of UHPLC, TOC and photocatalytic reactor.

Research

EDUCATION AND TRAINING

October 2018 - present	PhD Student - <i>Studies and research on the reduction of critical raw materials in zirconia-based materials for applications in extreme conditions.</i> POLITEHNICA University of Bucharest, Faculty of Science and Materials Engineering	ISCED 8
October 2016 - June 2018	Diplomă Master - <i>Methods of preservation of the natural thermal storage by using the composite material KNO₃_ZnO</i> POLITEHNICA University of Bucharest, Faculty of Science and Materials Engineering Field: Environmental Protection in the Metallic Materials Industry	ISCED 7
October 2012 - June 2016	Engineer Heterogeneous photocatalysis processes used in depollution aqueous media POLITEHNICA University of Bucharest, Faculty of Science and Materials Engineering Field: Environmental Protection in the Metallic Materials Industry	ISCED 6
September 2008 - June 2012	High school degree – Maturity Exam Liceul „Grup Școlar Industrial Energetic”, Câmpina High school „Grup Școlar Industrial Energetic” of Campina Field: Mathematics – Informatics	ISCED 5

PERSONAL SKILLS

Mother tongue Romanian

Other language	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

Communication skills
Team spirit acquired after collaborating with colleagues in various projects;
Good ability to integrate into different cultural environments, to assimilate new information, flexibility and adaptability acquired through internships and spring schools in which I participated.

Workplace Skills
Technical skills for using the devices, Drop Shape Analyzer_DSA 100 and Zetasizer;
Ability to prioritize tasks and work on multiple tasks;
Ability to work both independently and as part of a team;
Resistant to challenges or obstacles;
Creativity and assertiveness.

ADDITIONAL INFORMATION

Courses	Accredited FORMATOR course; Course accredited by EXPERT ACCESSING EUROPEAN STRUCTURAL AND COHESION FUNDS; Accredited course PROJECT MANAGEMENT; Course Introduction to the SPSS program; Accredited MARKETING MANAGER course.
Projects	Member of the work team in both national and international projects: (MONAMIX, RETECH, FAST-SMART, GELINT, etc.)
Published papers	7 - Appendix 1
Conferences	15 – Appendix 2

TRAINING

0 July 05-08, 2022 , Training school: introduction to porous materials: From design to Fabrication and Characterization Techniques (Aveiro, Portugal);

7 October – 10 October 2019: Training School COST Action BIONECA CA16122 3rd Course"From biomaterials and tissue engineering characterization, modeling and visualization of stem cells and applications to regenerative cardiology and neurology", Chania, Crete.

24 February – 9 March 2019: Training cours - ENEA – ITALIAN NATIONAL AGENCY FOR NEW TEHNOLOGIES, ENERGY AND SUSTAINABLE ECONOMIC DEVELOPMENT- Cassacia Research Centre, Rome, Italy. November 2018:

Training course at Institut de Chimie de la Matière Condensée de Bordeaux CNRS - UPR 9048 from Bordeaux – France. July 2018: Training course at PARTNER Uniwersyteckie Centrum Medycyny Morskiej Tropikalnej ("UCMMIT"), Gdynia, Poland, RISE-TROPSENSE

10-13 April 2018: Spring School "ExtremMat", Bordeaux, France;

June 2017: Training course at MOLECULAR FINGERPRINT SWEDEN AB, Uppsala, Sweden, RISE-TROPSENSE;

May 14-18th 2017: Participation at the "International Spring School on Forefront Alloys & Advanced Materials for Extreme Conditions, Sardinia, Italy;

November 11th 2016: Participations at Workshop "New Materials and Methods for regenerative Medicine and Tissue Engeneering"

Winner of one of the 6 virtual mobility grants (VM) authorized by COST in October 2021.

The main objectives of the VM were:

Contribute to the elaboration of a market study on thermal barriers in the aerospace, gas turbines and automotive fields;

Elaboration of a project for estimating the production costs at industrial level of the types of TBC obtained through the EB-PVD technique;

Centralization of experimental results performed in research groups collaborating with IMNR, on thermal barrier coating (TBC) based on zirconium doped with rare earth oxides.

Awards

Appendix 1 - List of published papers

Nr. crt.	Author	Title	Journal (ISSN cod)	Details
1	R.M. Piticescu, L.M. Popescu, A.E. Slobozeanu*, A.I. Tudor, R.R. Piticescu, M.D. Romero Sanchez	High pressure solvothermal microencapsulation of D-mannitol in inorganic shells for thermal energy storage	Revista de Chimie (0034-7752)	vol. 69, nr. 6, 1473-1477 (2018) https://doi.org/10.37358/RC.18.6.6349
2	Marina Urbina, Antonio Rinaldi, Santiago Cuesta-Lopez, Arcadii Sobetkii, Anca Elena Slobozeanu, Peter Szakalos, Yi Qin, Mythili Prakasam, Radu-Robert Piticescu*, Cedric Ducros and Alain Largeteau	The methodologies and strategies for the development of novel material systems and coatings for applications in extreme environments – a critical review	Manufacturing Review (2265-4224)	Vol. 5, 9 (2018) https://doi.org/10.1051/mfreview/2018006
3	Alexandra-Georgiana Vătui (Moise), Sorina-Nicoleta Valsan, Corneliu Frățilă, Andreea-Nicoleta Ghiță, Arcadii Sobetkii, Daniel-Cristian Mihăiescu, Anca Elena Slobozeanu, Roxana Trușcă	Synthesis and characterization of composites membranes based on carbon functionalised with gold nanoparticles	Materiale Plastice (2668-8220)	Vol. 56, no.2, pp. 309-314 (2019) https://doi.org/10.37358/MP.19.2.5177
4	Adrian Mihail Motoc, Sorina Valsan, Anca Elena Slobozeanu*, Mircea Corban, Daniele Valerini, Mythili Prakasam, Mihai Botan, Valentin Dragut, Bogdan St. Vasile, Adrian Vasile Surdu, Roxana Trusca, Maria Luisa Grilli, Robert Radu Piticescu	Design, Fabrication and Characterization of New Materials Bsed on Zirconia Doped with Mixed Rare Earth Oxides: Review and First Experimentals Results	Metals (2075-4701)	Vol.10(6), 746 (2020) https://doi.org/10.3390/met10060746
5	A.E. Slobozeanu, S.E. Bejan, Ioan Albert Tudor, Ana Maria Mocioiu, Adrian Mihail Motoc, Maria Dolores Romero-Sanchez, Mihai Botan, Cristea George Catalin, Cursaru Laura Madalina, Radu Robert Piticescu, Cristian Predescu	A review on differential scanning calorimetry as a tool for thermal assessment of nanostructured coatings	Manufacturing Review (2265-4224)	8(1) (2021) https://doi.org/10.1051/mfreview/2020038
6	Grilli M.L., Valerini D., Slobozeanu A.E.*, Postolnyi B.O., Balos S., Rizzo A., Piticescu R.R.	Critical raw materials saving by protective coatings under extreme conditions: A review of last trends in alloys and coatings for aerospace engine applications	Materials (1996-1944)	14(7), 1656 (2021) https://doi.org/10.3390/ma14071656
7	Radu-Robert Piticescu, Anca Elena Slobozeanu, Sorina Nicoleta Valsan, Cristina Florentina Ciobota, Andreea-Nicoleta Ghița, Adrian Mihail Motoc, Stefania Chiriac, Mythili Prakasam	Hydrothermal Synthesis of Nanocrystalline ZrO ₂ -8Y ₂ O ₃ -xLn ₂ O ₃ Powders (Ln = La, Gd, Nd, Sm): Crystalline Structure, Thermal and Dielectric Properties	Materials (1996-1944)	14(23), 7432 (2021) https://doi.org/10.3390/ma14237432

Appendix 2 - List of conferences

Nr. ctr.	Author	Title	Conference details
2017			
1	Anca-Elena Slobozeanu, Laura-Mădălina Popescu, Adriana Gabriela Plaiasu, Catalin Marian Ducu, Radu Robert Piticescu, Roxana Mioara Piticescu	Synthesis and characterization of polyaniline-carbon nanotube composites for biosensor applications	Conference of the Romanian Electron Microscopy Society - C.R.E.M.S., 16-18.05.2017, Sinaia, România
2	A. Slobozeanu, C.F. Ciobota, A. Sobetkii, A. Tudor, P. Stanciu, R.R. Piticescu, A. Rinaldi, S.C. Lopez	Functionally graded materials (FGM) for extreme conditions obtained by electron beam physical vapor deposition (EB-PVD)	Conference of the Romanian Electron Microscopy Society - C.R.E.M.S., 16-18.05.2017, Sinaia, România
2018			
3	Sobetkii, L. Mosinoiu, A. Slobozeanu, C.F. Rusti, R.R. Piticescu, M.L.Grilli	Obtaining of RE-doped oxide high temperature coatings by EB-PVD	Workshop Innovative Industry and Enabling KETs: Advanced Coatings Synthesis and Characterization, 3-6.12.2018 Roma, Italia
4	Sorina Nicoleta Vălsan, Cristina Florentina Ciobota, Anca Elena Slobozeanu, Maria Luisa Grilli, Mythili Prakasam, Alain Largeateau, Radu-Robert Piticescu	The use of mixed lanthanides as dopants for obtaining new materials	1st International Conference on Emerging Technologies in Materials Engineering EmergeMAT and 4th International Workshop on Materials under Extreme Conditions SUPERMAT, 14-16.11.2018, București, România
5	G. Moise - Vătui, C. Frățilă, A. Slobozeanu, S. Vălsan, C. F. Ciobota	Functionalization of carbon based materials for applications in filtering membranes	COST Action Fall Meeting „Multi-Functional Nano-Carbon Composite Materials (MultiComp)”, 06-07.09.2018, București, România
2019			
6	Cristina Florentina Ciobota, Ioan Albert Tudor, Simona Elena Bejan, Anca Elena Slobozeanu, Radu Robert Piticescu, Laura Eugenia Bărbulescu, Dumitru Valentin Drăguț	Hydrothermal synthesis of multicomponent rare earth oxides	2nd International Conference on Emerging Technologies in Materials Engineering EmergeMAT, 06-08.11.2019, București, România
7	A.E. Slobozeanu, C.F.Ciobota, S.N. Vălsan, M.Prakasam, A. Largeateau, F. Balima, M.L. Grilli, R.R. Piticescu	Synthesis of nanostructured Rare Earth Oxides and their use in designing of sintered zirconia ceramics and High Entropy Oxides	18th National Seminar on Nanotechnology, SNN 2019, 24-25.10.2019, Iași, România
2020			
8	Adrian Mihail Motoc, Anca Elena Slobozeanu, Simona Elena Bejan, Radu Robert Piticescu, Dumitru Valentin Dragut, Alain Largeateau and Mythili Prakasam	Hydrothermal technology for the green synthesis of rare earths doped zirconia nanoparticles	3rd International Conference on Emerging Technologies in Materials Engineering EmergeMAT, 29-30.10.2020, București, România
9	Anca E. Slobozeanu, Ana M. Mocioiu, Dumitru V. Dragut, Roxana M. Piticescu, Madalina L. Cursaru, Radu R. Piticescu, Bogdan St. Vasile, Adrian V. Surdu, Mythili Prakasam	Rare Earth Doped Zirconia Nanomaterials: Synthesis, Processing And Applications	SICHEM, 17-18.09.2020 București, România
10	Anca Elena Slobozeanu, Sorina Nicoleta Valsan, Mircea Corban, Radu Robert Piticescu, Mihail Botan, Victor Manoliu, Bogdan St. Vasile	Thermal Barrier Coatings Based On Rare Earths Doped Zirconia Materials Obtained By Eb-PVD Process And Their Thermal Shock	International Conference of Aerospace Sciences, "AEROSPATIAL 2020", 15-16.10.2020 București, România
2021			

11	Anca Elena Slobozeanu, Radu Robert Piticescu, Sorina-Nicoleta Vălsan, Andreea-Nicoleta Ghiță, Maria Luisa Grilli, Daniele Valerini, Mythili Prakasam, Alain Largeteau, Arcadie Sobetkii	Preliminary studies on zirconia ceramics doped with mixed rare earth oxides for application in TBC and potential marketing study	4th International Conference on Emerging Technologies in Materials Engineering EmergeMAT, 4-5.11.2021, București, România
12	Radu-Robert Piticescu, Mythili Prakasam, Olivier Jay, Anca Elena Slobozeanu. Marian Burada	Innovative ideas in the design, re-use and re-fabrication of Rare Earth-based materials in the Context of Microelectronics and Renewable Energy	International Semiconductor Conference (CAS) 6-8.10.2021 București, România IEEE event 2021 International Semiconductor Conference (CAS) Proceedings – IEEE, pp. 25-28 https://doi.org/10.1109/CAS52836.2021.9604177
13	Maria Eliza Pușcașu, Ștefania Chiriac, Raluca Elena Irimescu, Anca Elena Slobozeanu , Alexandru Cristian Matei	Additive Manufacturing of ZnO-CNT based structures for wastewaters treatment	NEXT-CHEM – Innovative Cross Sectorial Technologies 3 rd Edition 27-28.05.2021 București, România
14	Anca Elena Slobozeanu , Radu-Robert Piticescu, Maria Luisa Grilli; Daniele Valerini; Mythili Prakasam; Alain Largeteau; Arcadie Sobetkii	Design, Synthesis and Characterization of Zirconia Ceramics doped with Mixed Rare Earth Oxides	2021 Spring Meeting of the European Materials Research Society (E-MRS), Symposium S, 31.05-03.06.2021
15	Sorina Nicoleta Vălsan, Dumitru Valentin Drăguț, Mircea Corban, Anca Elena Slobozeanu , Maria Luisa Grilli, Antonio Rinaldi, Danielle Valerini, Felix Balima, Mythili Prakasam, Alain Largeteau, Radu Robert Piticescu	Design, obtaining and characterization of new materials based on zirconia doped with mixed Rare Earth Oxides	International Conference on Raw Materials and Circular Economy 05-09.09.2021 Atena, Grecia