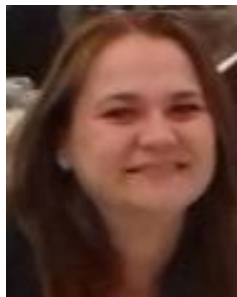




Curriculum vitae Europass



PERSONAL INFORMATION

Name / First Name

ZAGRAI MIOARA



Donat Street, No.67-103, Ro-400293, Cluj-Napoca, Romania



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mioara.zagrai@itim-cj.ro; miozagrai@yahoo.com

Nationality

Romanian

Date of birth

19/04/1981

WORK EXPERIENCE

apr. 2019 – present

Senior Research Scientist - National Institute for Research and Development of Isotopic and Molecular Technologies (I.N.C.D.T.I.M.) Cluj-Napoca, Centre of Advanced Research and Technology for Alternative Energies - CETATEA.

Research areas: synthesis of the glasses and glasse-ceramics using melt quenching technique; ceramics materials for dental applications; electrochemical energy storage, lead-acid battery, recycling/imobilization of hazardous waste, electrode vitroceramics; structural and behavioural characterization of amorphous and crystalline systems by: X-ray diffraction (XRD); Fourier Transform Infrared (FTIR), Ultraviolet-Visible (UV-Vis), Photoluminescence (PL) and Electron Paramagnetic Resonance (EPR) spectroscopy, Cyclic voltammetry (VC), Differential scanning calorimetry (DSC) and Micro Vickers Hardness Tester.

febr. 2017 – apr. 2019

Research Assistant

National Institute for Research and Development of Isotopic and Molecular Technologies (I.N.C.D.T.I.M.), Cluj-Napoca, Centre of Advanced Research and Technology for Alternative Energies - CETATEA.

nov. 2016 – oct. 2018

Research Assistant

Technical University of Cluj-Napoca.

2004 - 2015

Sales Representative

EDUCATION AND TRAINING

2018

PhD in Environmental Engineering - Technical University, Cluj-Napoca, Romania. "Oxidic Vitreous Systems with Applications for the Environmental Protection", scientific advisor Prof.dr.chim. Elena Maria PICĂ.

2013

MSc in Environmental Engineering, Sustainable Development and Environment Protection - Technical University, Cluj-Napoca, Faculty of Materials and Environmental Engineering, Romania.

2003

BSc in History Babes-Bolyai University - Faculty of History and Philosophy, Cluj-Napoca, Romania.

PERSONAL SKILLS

Mother tongue
Foreign language(s)

romanian

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B1	B1	B1	B1	B1
A1	A1	A1	A1	A1

English

French

Communication/competencies skills

Able to prioritize and operate proactively; receptive to new ideas and changes; provide opportunities; exhibit strong perseverance and optimism.

Technical skills

Good handling of scientific equipments: FTIR Spectrometer, V-750 UV-Visible Spectrophotometer, Potențiosat/Galvanostat AUTOLAB PGSTAT 302N and Micro Vickers Hardness Tester.

Digital skills

Competent with Microsoft Office tools, Origin, Nova II, Mach!

Driving license

B

ADDITIONAL INFORMATION

Publications

12 articles out of which **8 indexed in Web of Science**

Conferences

47 scientific communications at national/international conferences

Hirsh Index

4 (according to the Web of Science, Scopus)

Patents

RADA Simona, **ZAGRAI Mioara**, RADA Nicolae Marius, CULEA Eugen, MANOLE Marius, HENDEA Radu, "Preparation technique of partially stabilized zirconia ceramics by oxides addition", Patent application A/00160/ 07.03.2018.

RADA Simona, **ZAGRAI Mioara**, RADA Nicolae Marius, CULEA Eugen, BOT Adrian, "Preparation, optimization and application technique of recycled materials provided from electrodes of the spent car batteries", Patent application A/00282/ 20.04.2018.

Research-development-innovation projects:

PN-III-P1-1.1-MC-2017-2180 - "The investigation by modern methods of a structure-luminescence properties interrelationship in the vitreous systems based on lead and doped with europium ions" - **Project Manager**;

PN-III-P2-2.1-BG-2016-0077 - "The expertise of zirconium oxides stabilized with another oxides for dental applications", ZirOxStoma (2016 - 2018).

PN-III-P2-2.1-PED-2016-1069 - "A novel approach for obtaining electrodes by lead used in automotive batteries - EnergyElectrod" (2017 - 2018).

PN-III-P3-3.1-PMRO-CN-2018-0183 - "The optimization of recycled lead for the applications on the automobile battery -OptimBat" (2018 - 2019).

Awards

Diploma of Excellence and Pro Invent Medal award of the International Exhibition of Research, Innovation and Inventions PRO INVENT, 17th Edition, 20-22 march 2019, Cluj-Napoca for the group of patent application: "Preparation technique of partially stabilized zirconia ceramics by oxides addition". A/00160/ 07.03.2018.

Diploma of Excellence and Gold Medal award of the International Exhibition of Research, Innovation and Inventions PRO INVENT, 17th Edition, 20-22 march 2019, Cluj-Napoca for the group of patent application "Preparation, optimization and application technique of recycled materials provided from electrodes of the spent car batteries". A/00282/ 20.04.2018.