

Curriculum Vitae

Personal

Name	MESAROS (Hristea-Simoc) Amalia-Zorica
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Researcher ID	http://www.researcherid.com/rid/C-3742-2011

Education

- 2010 PhD in Inorganic Chemistry, Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University, Cluj-Napoca, Romania
- 2003 MSc in Inorganic Chemistry, Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University, Cluj-Napoca, Romania
- 2001 Diploma in Chemistry, Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University, Cluj-Napoca, Romania

Professional Experience

- 2016 - present Associate professor, Department of Physics and Chemistry, Faculty of Materials Engineering and Environment, Technical University of Cluj-Napoca
- 2012 - 2016 Assistant professor, Department of Physics and Chemistry, Faculty of Materials Engineering and Environment, Technical University of Cluj-Napoca
- 2008 - 2012 Assistant lecturer, Department of Physics and Chemistry, Faculty of Materials Engineering and Environment, Technical University of Cluj-Napoca
- 2007 - 2008 Chemical engineer, Terapia Ranbaxy Company, Cluj-Napoca
- 2001 - 2007 Scientific researcher, Raluca-Ripan Institute for Research in Chemistry, Cluj-Napoca

Fellowships and Awards

- 2014 - 2015 Postdoctoral fellowship, "Tuning the properties of multifunctional oxide nanoparticles by shape and size control" - POSDRU/159/1.5/S/137516, Technical University of Cluj-Napoca (18 months)
- June - July 2015 Research stage, FP7 project FP7, EUROTAPES 280432/18.05.2012, ICMAB, Barcelona, Spain
- January - July 2005 Marie Curie fellowship, "Angström Nano Centre - Doctoral training in nanomaterials and nanotechnologies", The Angström Laboratory, Uppsala University, Sweden
- 2010 Charte pour la contribution à la stimulation, au development et à la promotion de la créativité à "Brussels Innova/Eureka" Bruxelles, November 15, 2010, OSIM patent no. 122129
- 2010 Gold Medal -EUREKA 2010 - The belgian and International Trade Fair for Technological Innovation - Brussels, November 20, 2010, OSIM patent no. 122129
- 2006 "Raluca Ripan" Award, National Symposium MATHNANTECH, July, Jupiter, Romania
- 2004 The third Medal, National Symposium MATHNANTECH, October, Sinaia, Romania

Personal skills and competences

Mother tongue (s)	Romanian				
Other language (s)					
Self-assessment	Understanding		Speaking		Writing
European level	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B1	B1	B1	B1
French	B1	B1	A2	A2	A2

Technical skills and competences

Wet-chemical synthesis of nanocrystalline metal oxides with luminescent, magnetic, and photocatalytic properties; Characterization and structure-property correlations for low-dimensional metal oxides; Deposition of luminescent and magnetic metal oxide thin films by chemical (Chemical Solution Deposition) and physical (Pulsed Laser Deposition) methods.

Additional information

Over 50 scientific articles (35 papers published in ISI journals), h-index 11, 3 national patents:

1. Honeycomb catalytic support and process for manufacturing the same, E. J. Popovici, A. M. Valeanu, V. Pop, A. Hristea, M. David, I. Petruțiu, BI no 122129/ 30.01.2009
2. Process for preparing a red photoluminescent pigment for gas-discharge tubes, E. J. Popovici, L. E. Muresan, I. Nemeth, A. Z. Mesaros, BI nr. 122856/ 30.03.2010
3. Chemical method for preparing ephitaxial films of strontium doped lanthanum manganite $\text{La}_{0.66}\text{Sr}_{0.33}\text{MnO}_3$ (LSMO), M. Nasui, T. Petrisor, R. B. Mos, A. Mesaros, M. S. Gabor, L. Ciontea, BI nr. RO131325/30.08.2016

December 2019

