



Curriculum Vitae	
Personal information	
First name / Surname	Adina Magdalena MUSUC (née STOICA)
Address	7 Podul Giurgiului Street, 050361 Bucharest, Romania
Telephone	+40-21-316 7812, ext. 54 (office) Mobile: +40 0722 688 960
E-mail	amusuc@icf.ro; musucadina@yahoo.com
Nationality	Romanian
Date of birth	1977 July 7
Gender	Female
Occupational field	Physical Chemistry
Work experience	
Dates	2016-present
Occupation or position held	Head of the Chemical Kinetics Department (2019 – present) Senior Researcher II
Main activities and responsibilities	Scientific Research
Name and address of employer	Romanian Academy, Institute of Physical Chemistry "Ilie Murgulescu" 202 Splaiul Independentei, 060021 Bucharest, Romania
Type of business or sector	Academic research within the Romanian Academy
Dates	February 2019 - January 2023
Occupation or position held	Researcher Assistant
Main activities and responsibilities	Scientific Research - Proof of concept, "Biocompatible photoluminescent ceramic nanomaterials" (PHOTONANOBIOCER), project director Project member - PN-III-P1.2-PCCDI-2017-0629 - "Innovative biomaterials for treatment and diagnosis" (BIONANOINOV)
Name and address of employer	University Politehnica of Bucharest Faculty of Applied Chemistry and Materials Science Splaiul Independenței nr. 313, 060042 Bucharest, Romania
Dates	2008 - 2016
Occupation or position held	Senior Researcher III
Main activities and responsibilities	Scientific Research
Name and address of employer	Romanian Academy, "Ilie Murgulescu" Institute of Physical Chemistry, 202 Splaiul Independentei, 060021 Bucharest, Romania
Dates	2002 - 2008
Occupation or position held	Researcher
Main activities and responsibilities	Scientific Research
Name and address of employer	Romanian Academy, "Ilie Murgulescu" Institute of Physical Chemistry, 202 Splaiul Independentei, 060021 Bucharest, Romania
Dates	2000 - 2002
Occupation or position held	Researcher Assistant

Main activities and responsibilities	Scientific research
Name and address of employer	Romanian Academy, "Ilie Murgulescu" Institute of Physical Chemistry, 202 Splaiul Independentei, Bucharest, Romania
Dates	1999-2000
Occupation or position held	Trainee Researcher Assistant
Main activities and responsibilities	Scientific research
Name and address of employer	Romanian Academy, "Ilie Murgulescu" Institute of Physical Chemistry, 202 Splaiul Independentei, Bucharest, Romania
Education and training	- Lyon, France 10 – 15 June 2012 "School of Calorimetry. Calorimetry and thermal methods in catalysis"; - "The Combustion Institute Summer School 2013" 19 - 23 august 2013 Lund University, Sweden - Short Summer School on TA&C, SSS on TA&C, 27th of August 2013, Vilnius, Lithuania, - NETZSCH-Gerätebau GmbH – Individual training seminar Selb, Germania, February 2018. - The International Combustion Institute Summer School ICISS on Near-Wall Reactive Flows, Virtual summer school, June 7th-10th, 2021, TU Darmstadt, Germany - The 2021 Virtual Session of Princeton-CI Summer School Princeton- combustion Institute Summer School on Combustion, June 20 to June 25, 2021. - International Winter School SMART FEED Digital edition Period: February 15, 23-24th 2022 - Joint European Summer School for Fuel Cell, Electrolyser and Battery Technologies, JESS 2022, Greece 18.-24.09.2022
Dates	2021
Title of qualification awarded	Advanced training / Certificate
The main studied disciplines / acquired professional competencies	Internal / managerial control system
Name and type of educational institution / training provider	APSAP training center - National register of continuing education providers
Certification:	The Ministry of Labor and The Ministry of Education
Dates	2007
Title of qualification awarded	PhD, Physical Chemistry domain
Name and type of organisation providing education and training	University of Bucharest, Romania
Dates	2001
Title of qualification awarded	MSc, Environmental quality control domain
Name and type of organisation providing education and training	University of Bucharest, Romania
Principal subjects/occupational skills covered	Research activity in the field of Chemical kinetics in homogeneous and heterogeneous systems; Combustion and flames of gases; Flammability of gaseous mixtures in air; Safety recommendations, for closed and open systems where deflagrations may occur, Nanomaterials for biomedical applications, materials chemistry, nanocomposites, thermal properties, environmental chemistry, carbohydrates physical and chemical characterization techniques, chemical kinetics, green chemistry. Biomass.
Available experimental techniques	Methods for measuring the ignition and propagation parameters characteristic for gaseous fuel-oxidant mixtures, methods for synthesis and characterisations of nanomaterials for biomedical applications, Methods of thermal analysis: Thermogravimetry, Differential Scanning Calorimetry, Microcalorimetry, Simultaneous Thermal Analysis; Structural and morphological characterizations of materials: Fourier Transform Infrared Spectroscopy, X-Ray Diffraction, Dynamic light scattering technique.

Awards	<ul style="list-style-type: none"> - Nicolae Teclu awarded in 2014 by the Romanian Academy, for scientific papers included in the topic "Experimental study and modelling of explosive reactions in gaseous and condensed systems" issued in 2012. - Gheorghe Spacu award for the scientific career and for the activities to promote chemistry in Romania, issued in 2015, by the Romanian Chemical Society. - Honorary diploma for contributing to the activities of the Romanian Chemical Society to promote chemistry in Romania, issued in 2018, by the Romanian Chemical Society 				
Dates	1999				
Title of qualification awarded	Diploma				
Principal subjects/occupational skills covered	Synthesis, characterization of coordination compounds with isatin ligands				
Name and type of organisation providing education and training	University of Bucharest, Faculty of Chemistry, Romania				
Personal skills and competences					
Mother tongue	Romanian				
Other language(s)	English, French				
Self-assessment	Understanding		Speaking		Writing
European level (*)	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	C1
French	A1	A1	A1	A1	A1
	(*) <i>Common European Framework of Reference for Languages</i>				
Felds of professional competences	Inorganic Chemistry, Polymer Chemistry, Explosive Condensed Compounds, Green Chemistry, Chemistry of Carbonaceous Materials, Hydrothermal Carbonization, Environmental protection, Pyrolysis of biomass, Bioenergy, Pharmaceutical processes, Cyclodextrin inclusion complexes; Carbon nanocomposites, Biomedical application, Bioactive materials, Biocompatible materials, Materials for energy, advance functional materials, Waste biomass, Hydrocarbon fuel, Drug delivery systems, Biopolymers, Biodegradation, Green Chemistry; Hydrogels; Bioenergy.				
Experimental Techniques	Thermal Analysis Techniques (TG, DTG, DSC, STA), Fourier Transform Infrared Spectroscopy, X-Ray Diffraction, Dynamic light scattering technique.				
Social skills and competences	Good teamwork, adaptability, flexibility, responsibility, mediation, and good communication skills. Ability to work efficiently under pressure and ability to interact and communicate.				
Computer skills and competences	Various dedicated computing programs, Microsoft Office package (Word, Excel, Power point, Publisher, etc.); Internet; access to bibliographic databases; Simulation / optimization programs; Advanced data processing.				
Additional information					
Other skills and competences	Expert evaluator for National and European projects Reviewer (Inorganica Chimica Acta/ Elsevier, Journal of Thermal Analysis and Calorimetry / Springer, Journal of Material Research/ Cambridge, Dalton Transactions / Royal Society of Chemistry, Materials / MDPI, Composites Part B: Engineering / Elsevier, Journal of Drug Delivery Science and Technology /Science Direct, Sensors /MDPI, etc.), Pharmaceuticals, Water, Energies, Pharmaceutics, Polymers, Nanomaterials, Processes, Coating, Materials, Membranes, Applied Sciences, Sensors; Journal of Thermal Analysis and Calorimetry; Arabian Journal of Chemistry; Environmental Nanotechnology, Monitoring & Management; International Journal of Hydrogen Energy.				

Editorial Boards	<p><i>Editorial board</i> American Journal of Chemical Engineering (Science PG) 2020 - present</p> <p><i>Topic Editor</i> Applied Sciences, MDPI - ISI Journal – 2020 - present Processes, MDPI - ISI Journal, 2021 - present</p> <p><i>Guest editor</i> Special Issue "Eco-friendly Synthesized Nanocomposite Materials", Applied Sciences (ISSN 2076-3417) (2020-2021) Special Issue "Natural and Synthetic pharmaceutical ingredients: Physico-Chemical Characterization and drug development" Applied Sciences IF – 2.838 (ISSN 2076-3417) (2022-2023) Special Issue „Bio-Based Composite Hydrogels for Biomedical Applications", Processes IF – 3.352 (ISSN 2227-9717) (2022-2023) Special Issue „Biomass-Burning" Fire IF – 2.726 (ISSN 2571-6255) (2022-2023) Special Issue "Recent Advances in Drug and Medical Device Formulations Used for Improving the Quality of Life" Life IF – 3.253 (ISSN: 2075-1729) (2023)</p>
Memberships of scientific societies	<p>2000 – present Member, Romanian Society of Chemistry 2005 - present Member of European Chemical Sciences (EuChemMS) 2002 – present Member, Romanian Society of Catalysis 2010 - present Vice-president of Romanian Society of Chemistry - Bucharest 3 2015 - 2019 Secretary of Section - Physical Chemistry of Romanian Society of Chemistry 2020 - present Vice-president of Section - Physical Chemistry of Romanian Society of Chemistry</p>
Organizing committee	<p>2013 – International Conference of Physical Chemistry RomPhysChem 15, 11-13 September 2013, Bucharest, Romania 2016 – International Conference of Physical Chemistry RomPhysChem 16, 21-23 September 2016, Galati, Romania 2018 – 12th European Symposium on Thermal Analysis and Calorimetry (ESTAC12), 27-30 August 2018, Brasov, Romania 2022 - Workshop "Good Culinary Practices (GGP)" - "Be a pharmacist in the kitchen" - June 2, 2022 UMF "Carol Davila" Bucharest, Faculty of Pharmacy, Master's Program in Nutrition and Food Safety, from the series "Good practices in nutrition"</p>
Involvement in research projects	Project leader/manager of 2 grants awarded by UEFISCDI, project leader/manager at 2 Mobility Grants awarded by UEFISCDI, project leader/manager at 1 UPB-Proof of Concept awarded by UPB, and research team member of 19 grants national and international projects as participant
Patents	3 national patents; 1 national patent application in 2022.
Books and book chapters	1 book chapters
Published papers	69 scientific papers published in ISI journals; 6 papers in non - ISI journals; 3 papers in Proceedings
h-index	15 - According to Scopus; 16 according to Google Scholar
Citations	553-According to Scopus; 639 according to Google Scholar
Communicated papers	Over 91 presentations and/or extended abstracts to National and International Conferences
ISI-Thomson Researcher ID	C-2485-2011
ORCID ID	0000-0002-6935-8065

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30.01.2023