



Europass
Curriculum Vitae

Personal information			
First name(s) / Surname(s)	Codina MOVILEANU		
Address(es)	2 Verigei Str., Bloc Z 3, app. 61, 050322 sector 5, Bucharest , Romania		
Telephone(s)	+40-21-316 7912, ext. 22 (office);	Mobile:	+40-766-52 72 00
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E-mail	cmovileanu@icf.ro ; crinamov@yahoo.com		
Nationality	Romanian		
Date of birth	16.01.1976		
Gender	female		
Occupational field			
Physical chemistry			
Work experience			
Dates	2016-present		
Occupation or position held	Senior researcher 2 nd degree, Chemical Kinetics Laboratory		
Main activities and responsibilities	Advanced laboratory research;		
Name and address of employer	Ilie Murgulescu Institute of Physical Chemistry, 202 Spl.Independentei, sector 6, Bucharest, Romania		
Type of business or sector	Academic research within the Romanian Academy		
Dates	2019 – martie 2024		
Occupation or position held	Researcher assistant		
Main activities and responsibilities	Scientific research – Proof of Concept, “Smart superparamagnetic nanoparticles based on curcumin for cancer diagnosis and treatment” (CURCUMIN_LOADED MAGNETITE), project director Project member – PN-III-P1.2-PCCDI-2017-0629 – “Inovative biomaterials for treatment and diagnosis” (BIONANOINOV)		
Name and address of employer	Polytechnic University of Bucharest, Faculty of Applied Chemistry and Materials Science		
Type of business or sector	Academic research		
Dates	2013 – 2016		
Occupation or position held	Senior researcher 3 rd degree		
Main activities and responsibilities	Basic laboratory research		
Name and address of employer	Ilie Murgulescu Institute of Physical Chemistry, 202 Spl.Independentei, sector 6, Bucharest, Romania		

Type of business or sector	Academic research within the Romanian Academy
Dates	2008 – 2013
Occupation or position held	Researcher
Main activities and responsibilities	Basic laboratory research
Name and address of employer	Ilie Murgulescu Institute of Physical Chemistry, 202 Spl.Independentei, sector 6, Bucharest, Romania
Type of business or sector	Academic research within the Romanian Academy
Dates	2002-2008
Occupation or position held	Assistant Researcher
Main activities and responsibilities	Basic laboratory research
Name and address of employer	Ilie Murgulescu Institute of Physical Chemistry, 202 Spl.Independentei, sector 6, Bucharest, Romania
Type of business or sector	Academic research within the Romanian Academy
Dates	2002-2008
Occupation or position held	Trainee Assistant Researcher
Main activities and responsibilities	Basic laboratory research
Name and address of employer	Ilie Murgulescu Institute of Physical Chemistry, 202 Spl.Independentei, sector 6, Bucharest, Romania
Type of business or sector	Academic research within the Romanian Academy
Education and training	<ul style="list-style-type: none"> - 2024 Princeton-Combustion Institute Summer School on Combustion and the Environment - 2013 Princeton-CEFRC Summer School for Combustion - 2013 CISS Summer School, Lund, Suedia - 2020 HPC Summer School, Novo mest, Slovenia - ICISS (International Combustion Institute Summer School) on Near-Wall Reactive Flows, Virtual Summer School, June 7-10, 2021 - Webex Course Web of Science: Cum sa economisesti timp cu EndNote - FLOW Summer School on Advancements in assessment of high temperature flows, 4-7 iulie 2023, Stockholm, Suedia - CoEC Combustion Autumn School 2023, 23-26 octombrie 2023, Sofia, Bulgaria - Online PATC-BSC Training Course: Introduction to high-fidelity combustion simulations using HPC - Climate Change Summit 2023, 19-20 octombrie, Bucuresti, Romania - Online Cyber Hygiene Training to Protect Your Institution Against Cybertheft of Research and Intellectual Property (IP) - 2nd International CASA Training Courses on Technologies for the Analysis of Carbon Data, 13-19 martie 2023. - "Green energy for everyone" SEE 2014-2021,
Dates	2022
Title of qualification awarded	Advanced training/Certificate

Principal subjects/occupational skills covered	Internal/managerial control system									
Dates	2002-2008									
Title of qualification awarded	PhD									
Principal subjects/occupational skills covered	Additives effect on the explosivity of gaseous systems									
Name and type of organisation providing education and training	Faculty of Chemistry, University of Bucharest, Romania									
Dates	2000-2002									
Title of qualification awarded	MSc									
Principal subjects/occupational skills covered	Amperometric pesticide detection method based on the choline sensor									
Name and type of organisation providing education and training	University of Bucharest, Faculty of Chemistry									
Dates	1996-2000									
Title of qualification awarded	BS In chemistry									
Principal subjects/occupational skills covered	Optical and magnetic properties of complex combinations of Cu ²⁺									
Name and type of organisation providing education and training	University of Bucharest, Faculty of Chemistry									
Personal skills and competences										
Mother tongue(s)	Romanian									
Other language(s)										
Self-assessment	Understanding				Speaking				Writing	
<i>European level (*)</i>	Listening		Reading		Spoken interaction		Spoken production			
Language	B 2	English	B 2	English	B 2	English	B 2	English	B 2	English
	B 2	French	B 2	French	B 2	French	B 2	French	B 2	French
	(*) <i>Common European Framework of Reference for Languages</i>									
Social skills and competences	Good teamwork									
Organisational skills and competences	Project director for 4 research grants with various durations (2 or 3 years) within 2013-2024, financed from national or international funding organisations									

Fields of competence	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.
Main research directions	Critical conditions for explosion initiation by means of electric sparks or hot bodies (metallic wires, jets of hot, burned gas); flammability limits; flame propagation in hydrocarbon-oxygen and hydrocarbon-air mixtures, in steady and non-steady conditions; catalytic combustion of hydrocarbons; explosive decomposition of exothermic compounds
Available experimental techniques	Methods for measuring the ignition and propagation parameters characteristic for gaseous fuel-oxidant mixtures (flammability limits; minimum ignition energy, for initiation with high-voltage or low-voltage electric sparks or with heated wires; peak pressure, maximum rate of pressure rise, deflagration index of closed vessel explosions; propagation speed and normal burning velocity), methods for synthesis and characterizations of nanomaterials for biomedical applications.
Computer skills and competences	Operating Systems: MS Windows; Developing Media: MS Office, Origin Lab, Table Curve
Computer skills and competences	Good communication skills, adaptability, good teamwork
Driving licence	B class / 1998
Additional information	
Publications (total)	56 articles: 46 in ISI journals (17 as main author); 5 in non- ISI journals; 5 in Proceedings (3 as main author), a book chapter, two patent proposals.
Citations	846 citations (without self-citations)-according Web of Science
h-index	17 according Web of Science, 18 according Scopus
Scientific communications	Over 40 scientific communications at National and International Conferences and Symposia as posters and 5 oral communications presented at International Conferences.
Managerial competence	Project director at 4 National contracts, Research team member of 8 grants
Awards	<ol style="list-style-type: none"> 1. Ilie Murgulescu Prize for Chemistry awarded in 2008 by the Romanian Academy, for publications in the field of fast gas-phase reactions issued in 2006. 2. The National Patent Proposal: C. Movileanu, D. Ficai, A. Ficai, M. Calin, M. F. Anghelache, A. V. Gafencu, G. Fundueanu-Constantin, M. Pinteala, M. Simionescu, E. Andronescu "Intelligent nanoparticle systems for cell internalization", nr. A / 00339 (15.06.2021) was awarded with: <ol style="list-style-type: none"> a. Gold medal – International exhibition INVENTCOR, II-nd edition, 16-18.12.2021, Deva, Romania b. Gold medal – Expozia international specializata INFOINVENT, editia a XVII-a, 17-20 noiembrie 2021, Chisinau, Republica Moldova c. Excellence diploma and Gold medal, The International Salon of scientific research, innovation and invention, PRO INVENT, editia XiX, 20-22 octombrie 2021, Cluj-Napoca d. Gold medal – The International Exhibition of Inventions and Innovations TRAIAN VUIA, Timisoara, 14 octombrie 2021

Referee	at ISI-ranked Journals: Journal of Hazardous Materials; Journal of Loss Prevention in the Process Industries; Fuel; Intern. Journal of Mechanical & Materials Engineering; Process Safety Progress (Elsevier); Energy & Fuels (Americal Chem. Soc.); Revue Roumaine de Chimie (Editura Academiei Romane); Revista de Chimie (Bucharest)
Evaluator expert	<ul style="list-style-type: none"> - Evaluator for projects of the Research Executive Agency (REA), within the European Commission (-Horizon Europe CL5 – 2022 – Call D5: Clean and competitive solutions for all transport modes, 11 May – 17 June 2022). - Project monitoring expert for Demonstration Experimental Projects and Transfer Projects at the Economic Operator. - Evaluator for UEFISCDI for competition: PN-III-P2-2.1-PTE-2019, PN-III-P2-2.1-PED-2019, PN-III-P1-1.2-PCCDI-2017 - Member of the Body of Experts from the National Register of Experts for the certification of research and development activity
Editorial Boards	<ul style="list-style-type: none"> - <i>Guest Editor Processes</i> Special Issue “Chemical Looping Combustion”, 2021-Present - <i>Topical Advisory Panel Member</i> Processes, 2021-Present
Professional Associations	Romanian Chemical Society; European Chemical Society Romanian Physical Chemistry Society; The Combustion Institute, USA; American Chemical Society
Organizing committee	<ul style="list-style-type: none"> - International Forum on Renewable Energy and Sustainable Development, October 09-11, 2023, Online - International Forum on Automotive and Mechanical Engineering, June 08-10, 2023 - 11th annual International Conference on Material Science and Environmental Engineering [MSEE2023], November 24th-26th, 2023, Nanjing, Jiangsu, China
Major collaborations	<ul style="list-style-type: none"> - PTB (Physikalische-Technische Bundesanstalt), Braunschweig, Germany <i>Flammability Properties of Gaseous Mixtures and Safety against Explosions;</i> - BAM (Bundesantalt für Materialforschung und Prüfung), Berlin, Germany <i>Flammability of Fuel/Inert Gas/Oxidizer Mixtures;</i> - University of Bucharest, Faculty of Chemistry: <i>Study of fast gas phase oxidation processes.</i>
ISI-Thomson Researcher ID	B-1665-2008
ORCID ID	0000-0002-7641-3149
Anexes	The list of scientific contributions

Data
01.10.2024

