



Europass
Curriculum Vitae

Personal information			
First name(s) / Surname(s)	Venera GIURCAN		
Previous Surname	BRINZEA		
Address	103 E Timisoara Blvd., 061327 Bucharest, Romania		
Telephones	+40-21-316 7912, ext. 22 (office)	Mobile:	+40-726 666 231
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E-mail	venerab@icf.ro		
Nationality	Romanian		
Date of birth	06.03.1980		
Gender	female		
Scientific domain	Chemistry		
Occupational field	Physical chemistry		
Work experience			
Dates	2017-present		
Occupation or position held	Senior researcher 2 nd degree, Chemical Kinetics Laboratory		
Main activities and responsibilities	Basic laboratory research		
Name and address of employer	Ilie Murgulescu Institute of Physical Chemistry, 202 Spl.Independentei, 060021 Bucharest, Romania		
Type of business or sector	Academic research within the Romanian Academy		
Dates	2014 – 2017		
Occupation or position held	Senior researcher 3 rd degree, Chemical Kinetics Laboratory		
Main activities and responsibilities	Basic laboratory research		
Name and address of employer	Ilie Murgulescu Institute of Physical Chemistry, 202 Spl.Independentei, 060021 Bucharest, Romania		
Type of business or sector	Academic research within the Romanian Academy		
Dates	2008 – 2014		
Occupation or position held	Researcher, Chemical Kinetics Laboratory		
Main activities and responsibilities	Basic laboratory research		
Name and address of employer	Ilie Murgulescu Institute of Physical Chemistry, 202 Spl.Independentei, 060021 Bucharest, Romania		
Type of business or sector	Academic research within the Romanian Academy		
Dates	2005-2008		
Occupation or position held	Assistant Researcher, Chemical Kinetics Laboratory		
Main activities and responsibilities	Basic laboratory research		
Name and address of employer	Ilie Murgulescu Institute of Physical Chemistry, 202 Spl.Independentei, 060021 Bucharest, Romania		
Type of business or sector	Academic research within the Romanian Academy		
Dates	2004-2005		
Occupation or position held	Trainee Assistant Researcher, Chemical Kinetics Laboratory		
Main activities and responsibilities	Basic laboratory research		
Name and address of employer	Ilie Murgulescu Institute of Physical Chemistry, 202 Spl.Independentei, 060021 Bucharest, Romania		
Type of business or sector	Academic research within the Romanian Academy		

Education and training											
Dates		2005-2008									
Title of qualification awarded		PhD									
Principal subjects/occupational skills covered		The propagation of deflagrations in stagnant gaseous mixtures									
Name and type of organisation providing education and training		Faculty of Chemistry, University of Bucharest, Romania									
Dates		2003-2005									
Title of qualification awarded		MSc									
Principal subjects/occupational skills covered		Influence of argon dilution on the propagation of deflagration in C ₃ H ₆ -air mixture									
Name and type of organisation providing education and training		Faculty of Chemistry, University of Bucharest, Romania									
Dates		1999-2003									
Title of qualification awarded		BS in Chemistry									
Principal subjects/occupational skills covered		Isatin-Thiosemicarbazones as ligands									
Name and type of organisation providing education and training		Faculty of Chemistry, University of Bucharest, Romania									
Other training stages		<p>July 2023 - Tsinghua-Princeton Summer School on Combustion, Tsinghua University, Center for Combustion Energy, Beijing, China – on line</p> <p>June 2021 - The International Combustion Institute Summer School (ICIS) on Near-Wall Reactive Flows, Darmstadt, Germany – on line</p> <p>June 2021 - Princeton-Combustion Institute Summer School on Combustion, Princeton University, NJ, USA – on line</p> <p>June 2016 - International Combustion Institute Summer School on Near-Wall Reactive Flows, Bensheim, Germany</p> <p>July 2013 - Tsinghua-Princeton Summer School on Combustion, Tsinghua University, Center for Combustion Energy, Beijing, China</p> <p>Aug. 2013 - The Combustion Institute Summer School, Lund University, Lund, Sweden</p> <p>June 2012 - Princeton Combustion Summer School, Princeton University, NJ, USA</p> <p>July 2011 - Documentation internship, training and experience exchange at PTB (Physikalisch-Technische Bundesanstalt), Braunschweig, Germany</p>									
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		B2	English	B2	English	B2	English	B2	English	B2	English
		B2	French	B2	French	B2	French	B2	French	B2	French
		(*) <i>Common European Framework of Reference for Languages</i>									
Social skills and competences		Good communication skills, adaptability, good teamwork									

Organisational skills and competencies	Responsible for explosives precursors used within Laboratory 3 Member of the Commission for validating of use of certain substances within Ilie Murgulescu Institute of Physical Chemistry Member of the National Register of Experts for the certification of research and development activity
Fields of competence	Physical chemistry; Chemical kinetics in homogeneous systems; Combustion and flames of gases; Flammability of gaseous mixtures in air; Safety recommendations for closed and open systems where deflagrations may occur
Main research directions	Critical conditions for explosion initiation by means of electric sparks; flammability limits; flame propagation in hydrocarbon-oxidizer mixtures
Available experimental techniques	Methods for measuring the ignition and propagation parameters characteristic for gaseous fuel-oxidizer mixtures (flammability limits; minimum ignition energy, for initiation with high-voltage or low-voltage electric sparks; peak pressure; maximum rate of pressure rise; deflagration index of closed vessel explosions; propagation speed and laminar burning velocity)
Computer skills and competences	Operating Systems: MS Windows; Developing Media: MS Office, Origin Lab, Table Curve; Cosilab
Driving licence	Category B / 2007
Additional information	
Publications (total)	57 papers published in ISI journals (25 as main author); 6 papers published in non-ISI journals (2 as main author); 5 papers published in Proceedings (1 as main author); a book chapter
Citations	1347 citations (without self-citations - according WoS)
h-index	22 (according WoS)
Scientific communications	> 60 scientific communications at National and International Conferences and Symposia as posters or oral communications
Managerial competence	Project director of two research grants (2007-2008; 2011-2013), financed from national funding organizations Project director of two mobility grants
Award	<i>Nicolae Teclu</i> Romanian Academy Award in 2014, for papers in the field of gas-phase combustions published in 2012
Referee	at ISI-ranked Journals: Fuel, Energy & Fuels, Combustion Science and Technology, ACS Omega, Processes, Applied Sciences, Journal of Hazardous Materials, International Journal of Hydrogen Energy
Professional Associations	Romanian Physical Chemistry Society
Major collaborations	Collaboration with Department of Physical Chemistry, Faculty of Chemistry, University of Bucharest, Romania with the title Study of fast gas phase oxidation processes Collaboration with PTB (Physikalische-Technische Bundesanstalt), Braunschweig, Germany with title Flammability Properties of Gaseous Mixtures and Safety against Explosions Collaboration with BAM (Bundesanstalt für Materialforschung und Prüfung), Berlin, Germany with title Flammability of Fuel/Inert Gas/Oxidizer Mixtures
Web of Science Researcher ID	AAQ-7330-2021

24.10.2024

Venera Giurcan

