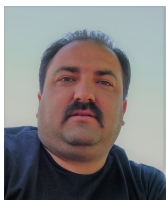




PERSONAL INFORMATION



Iustinian Gabriel BEJAN

 "Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Department of Chemistry, Physical Chemistry Laboratory and Integrated Center of Environmental Science Studies in the North Eastern Region – CERNESIM, Romania 11 Carol I, 700506 Iasi, Romania

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 iustinian.bejan@uaic.ro

Sex Male | Date of birth 25/10/1975 | Nationality Romanian

CURRENT POSITION

¹Associate professor dr. / ²Scientific researcher IInd degree,

¹"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Department of Chemistry, Physical Chemistry Laboratory.

²"Alexandru Ioan Cuza" University of Iasi, Integrated Center of Environmental Science Studies in the North Eastern Region – CERNESIM

WORK EXPERIENCE

08/2021 - present

Associate professor, Dr.

"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Department of Chemistry, Physical Chemistry Laboratory, Iasi, Romania, <http://www.uaic.ro/>

Teaching activities (lectures, seminars and laboratory classes); Research activities; Coordinator of master and bachelor thesis; Referent for PhD students.

03/2018 – 07/2021

Lecturer, Dr.

"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Department of Chemistry, Physical Chemistry Laboratory, Iasi, Romania, <http://www.uaic.ro/>

Teaching activities (lectures, seminars and laboratory classes); Research activities. Coordinator of master and bachelor thesis. Referent for PhD students.

07/2017 - present

Senior Researcher IInd degree, Dr.

"Alexandru Ioan Cuza" University of Iasi, Integrated Center of Environmental Science Studies in the North Eastern Region – CERNESIM, Romania, <https://cernesim.uaic.ro/index.php/language/en/>

Research activities; Coordinator of research grants; Coordinating research teams for projects; Management activities for research projects awarded as coordinator; Referent for PhD students.

09/2015 - 06/2017

Senior Researcher IIIrd degree, Dr.

"Alexandru Ioan Cuza" University of Iasi, Integrated Center of Environmental Science Studies in the North Eastern Region – CERNESIM, Romania, <https://cernesim.uaic.ro/index.php/language/en/>

Research activities. Research grants coordinator. Coordinating research teams for projects.

07/2013 - 07/2015

Marie Curie Researcher, Dr.

University of Leeds, School of Chemistry, United Kingdom, <https://eps.leeds.ac.uk/chemistry>

Experienced Marie Curie Fellow, Marie Curie IntraEuropean Fellowship (IEF) LAMUNIO-Laboratory and Modelling studies to UNDERstand Isoprene Oxidation. Grant 331806.

08/2010 - 07/2013

Postdoctoral Researcher, Dr.

Bergische Universität Wuppertal, Department of Physical Chemistry, Wuppertal, Germany, <https://www.uni-wuppertal.de>

Postdoctoral Researcher on DFG project 10. DFG project "Kinetic and mechanistic investigations of the gas phase photolysis of ortho-substituted nitroaromatics KL1392/2-1.

07/2008 - 06/2010

IRCSET Researcher, Dr.

University College Cork, School of Chemistry and Environmental Research Institute, Cork, Ireland <https://www.ucc.ie/en/> .

Research Fellowship from Irish Research Council for Science, Engineering & Technology (IRCSET), Project - Atmospheric Chemistry of Oxygenated Aromatic Compounds: Mechanisms & Aerosols

- 04/2007 - 06/2008 **Researcher, Dr.**
Bergische Universität Wuppertal, Department of Physical Chemistry, Wuppertal, Germany, <https://www.uni-wuppertal.de>
Researcher German Research Foundation (DFG) project POXSA (BE 2124/4-1) for development of new ionization technique for nitroaromatic detection using mass spectrometry.
- 07/2001 - 03/2007 **PhD student and Assistant Researcher**
Bergische Universität Wuppertal, Department of Physical Chemistry, Wuppertal, Germany, <https://www.uni-wuppertal.de>
Working on various atmospheric chemistry projects related to my PhD topic.
- 09/1999 - 06/2001 **College Teacher**
"Nicolina" High School, Department of Physics, Iasi, Romania.
Teaching physics for high school students

EDUCATION AND TRAINING

- 07/2013 - 07/2015 **Marie Curie Postdoctoral Fellowship**
University of Leeds, School of Chemistry, United Kingdom, <https://eps.leeds.ac.uk/chemistry>
Marie Curie Postdoctoral Fellow with 10 years experience, Marie Curie IntraEuropean Fellowship (IEF) LAMUNIO-Laboratory and Modelling studies to UNDERstand Isoprene Oxidation.
- 08/2010 - 07/2013 **Postdoctoral Research**
Bergische Universität Wuppertal, Department of Physical Chemistry, Wuppertal, Germany, <https://www.uni-wuppertal.de>
Postdoctoral Researcher on DFG project 10. DFG project "Kinetic and mechanistic investigations of the gas phase photolysis of ortho-substituted nitroaromatics KL1392/2-1.
- 07/2008 - 06/2010 **IRCSET Postdoctoral Fellowship**
University College Cork, School of Chemistry and Environmental Research Institute, Cork, Ireland <https://www.ucc.ie/en/>
Research Fellowship from Irish Research Council for Science, Engineering & Technology (IRCSET), Project - Atmospheric Chemistry of Oxygenated Aromatic Compounds: Mechanisms & Aerosols
- 07/2001 - 03/2007 **PhD studies**
Bergische Universität Wuppertal, Department of Physical Chemistry, Wuppertal, Germany, <https://www.uni-wuppertal.de>
Thesis: Investigations on the Gas Phase Atmospheric Chemistry of Nitrophenols and Catechols"
Supervisors: Prof. Dr. Karl Heinz Becker/ Dr. Ian Barnes. Graduated with "magna cum laude" -
- 09/1999- 06/2001 **Master of Science**
"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Department of Chemistry, Analytical Chemistry Laboratory, Iasi, Romania, Francophone module - "Chemistry of solids", University of Iasi, Faculty of Chemistry, <http://www.uaic.ro/>
Thesis: Heavy metals pollution using moss as bio monitors, Supervisor: Prof. Dr. Raluca Mocanu. Graduated with 10/10 (maximum)
- 09/1995 - 06/1999 **Bachelor of Science**
"Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, Department of Chemistry, Analytical Chemistry Laboratory, Iasi, Romania,

PERSONAL SKILLS

Mother tongue(s)	Romanian				
	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
German	B2	B2	B2	B2	B2
French	B1	B1	B1	B1	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills	Good communication skills gained through my experience as Marie Curie ambassador activities in Leeds, promoting the Marie Curie Fellowship through the potential applicants. Experienced with the communication and dissemination of the scientific results through the large scientific and non-scientific auditorium. Ability to interpret, discusses, evaluate and present scientific data along meetings, conferences, symposia and events.
Organisational / managerial skills	Coordinator of Laboratory team work at the University of Wuppertal, Germany. Laboratory experiments coordination through a number of three reaction chambers simultaneously. Acquisition and maintenance supervision for laboratory instruments and technical staff. Coordination of practical work at HIRAC laboratory from School of Chemistry, Leeds, United Kingdom. Management/organizational skills along with four national projects as coordinator and project leader. Management of the acquisition process of instruments and logistics within the coordinated projects. Coordination and management of TE team (Young teams) project with 5 employers. Meeting organizer by coordinating scheduled data interpretation. Coordinating and leadership responsibilities as a leader for two PED (Experimental and Developing projects) and PCE (Project of Exploratory Research) hiring up to 10 employers. Coordinating data dissemination and project reports. Leading and coordinating data dissemination through scientific articles.
Research interests	Atmospheric chemistry; Physical chemistry; Gas-phase chemistry; Gas-phase kinetic and reactivity; Gas-phase reactions and mechanisms; Aerosol chemistry and physics; Instrument development; Photochemistry and Environmental chemistry;
Teaching activities	Coordinating bachelor and master thesis. <i>Lecture and seminars:</i> Physical chemistry of disperse systems (lectures, seminars and lab work) Physical chemistry of interfaces (lectures, seminars and lab work) Colloidal chemistry (lectures, seminars and lab work) Thermodynamics (seminars and lab work) Chemical kinetics (seminars and lab work) Statistic and thermodynamics (seminars and lab work) Structure of matter and spectroscopy (seminars and lab work)
Job-related skills	Management skills leading research project teams. Ability to work under pressure. Multidisciplinary and interdisciplinary team coordination. Responsibility for quality audit of the research projects.
Computer skills	Expertise with usual computer related programs Windows MS Office, Origin, Sigma Plot, BioChem Draw. Experience with software for scientific instruments: FTIR, GC-FID, GC-MS, UV-VIS, AAS, PTR-TOF-MS, LOPAP, FAGE, Actinometry, Gas monitors, SMPS,
Others	Loyalty, Persuasion, Empathy, Honesty, Team working, Sociable,
Driving licence	B

ADDITIONAL INFORMATION

Publications	51 per-reviewed articles , 6 book chapters, 11 proceedings
Presentations	6 invited lectures, 25 oral presentations, > 200 posters
Conferences	> 40 conferences attendances
H index	20 (1090 citations)
Memberships	Member of Royal Society of Chemistry, UK, since 2013 Member of Romanian Society of Chemistry, RO, since 2015
Scientific recognition	Editor: "Atmosphere" and Special Issues in "Aerosols" Expert evaluator for PN-II-RU-TE-2018 Action and PN-II-RU-PD-2018 Action from UEFISCDI

Projects International - Coordinator

1. Marie Curie IntraEuropean Fellowship grant (IEF) LAMUNIO-Laboratory and Modelling studies to UNderstand Isoprene Oxidation. Grant 331806. July 2013-July 2015, University of Leeds, School of Chemistry, United Kingdom. **247,388.16 EUR**.
2. IRCSET Fellowship Irish Research Council for Science, Engineering & Technology (IRCSET), Atmospheric Chemistry of Oxygenated Aromatic Compounds: Mechanisms & Aerosols, 1st Aug 2008-31st July 2010, University College Cork, Irish Research Institute. **83,095.00 EUR**

International - Member

1. Project PN-III-P3-3.1-PM-RO-FR-2016-0047, Nr. contract 90BM/2017, Ozonolysis of Oxygenated unsaturated compounds of biogenic origin in the Atmosphere: from kinetics to secondary organic aerosol formation (OzOA).
2. European Union's Horizon 2020 research and innovation programme - EUROCHAMP-2020 grant agreement No 730997.
3. German Research Foundation (DFG) project POXSA (BE 2124/4-1) for development of new ionization technique for nitroaromatic detection using mass spectrometry.
4. DFG project "Kinetic and mechanistic investigations of the gas phase photolysis of ortho-substituted nitroaromatics KL1392/2-1.
5. TOXIC project "Toluene Oxidation Investigations in a Chamber" within the EUROCHAMP-2 grant agreement No 730997
6. DFG (German Research Foundation) project for the development of Ozone-LOPAP instrument.
7. DBU (German Environment Foundation) project for the development of NO₂-LOPAP instrument contract No. 24171.
8. DAAD (German Academic Exchange Service) project, Germany - Argentinien, PROALAR 2007.
9. EU project: "Multiphase chemistry of oxygenated species in the troposphere" (Joint project MOST, (no° EVK2-CT-2001-00114).
10. BMBF project of the German Atmospheric Research Programme AFO 2000 "Regional biogenic emissions of reactive volatile organic compounds (BVOC) from forests: Process studies, modelling and validation experiments (BEWA2000)" (no° FZK – 07ATF25) subproject 201 "Laboratory and Smog Chamber Experiments on the Atmospheric Degradation of Biogenic VOC: Investigation of the Aerosol Formation and Validation of Chemical Mechanisms" (BEWA).
11. EU project: "Origin and formation of secondary organic aerosol" (Joint project OSOA, (no° EVK2-1999-00016).
12. BMBF project of the German Atmospheric Research Programme AFO 2000: "Validation of chemical mechanisms to describe the degradation of isoprene and a-pinene within 3-dimensional chemistry transport models" (Joint project ValCheM (no° FZK – 07ATF13).
13. EU project "Effects of the oXidation of Aromatic Compounds in the Troposphere (EXACT)" (no° EVK4 – CT1999 - 00053974064).

National - Coordinator

1. PN-II-RU-TE-2014-4-2461, nr. 305 from 01/10/2015, Studies on the Oxidation of Substituted Aromatic Compounds under Simulated Atmospheric Conditions – SOS-AROMATIC, 01 October 2015- 30 September 2017, Value: **550,000 LEI**
2. PN-III-P2-2.1-PED-2016-1621 nr. 86PED from 03/01/2017, Atmospheric Simulation Chamber – New Research Facility to Understand Sesquiterpene Oxidation – CHARUSO, 03 January 2017 – 02 July 2018, Value: **600,000 LEI**.
3. PN-III-P4-ID-PCE-2016-0807, nr. 118/2017, InvestiGations on the Atmospheric Chemistry of CYCLic Oxygenated hydrocarbons IGAC-CYCLO, 12 July 2017 – 31 December 2019, Value: **1,000,000 LEI**
4. PN-III-P2-2.1-PED-2019-4972 nr. 444PED from 02/11/2020, PHOtolysis of Nitroaromatic Compounds: new source of HONO and Secondary Organic Aerosols formation in the atmosphere – PHONIC-HONO-SOA, 02 Nov. 2020 – 31 Oct. 2022, Value: **600,000 LEI**.

National - member

1. PN-III-P4-ID-PCE-2016-0270, Nr. contract 38/2017, Ozonolysis as a source of the secondary organic aerosols – Investigations in a atmospheric simulation chamber. -OLFA-ROA, UEFISCDI.
2. PN-III-P4-ID-PCE-2016-0299 Assessing the Anthropogenic and Biogenic Emissions Impact on Atmospheric Urban Fine Organic Particles in Eastern Romania. Solving the Challenge of the Aerosols Missing Mass as a One Step Forward Tool (AI-FORECAST), UEFISCDI.
3. Project PN-P2.-2.1-PED-2016-0924, Nr. contract 78PED/03.01.2017, Development and validation of a temperature regulated environmental chamber for studying atmospheric oxidation processes and mechanisms (DEV-TREC), UEFISCDI.
4. CNFIS-FDI-2018-0102, Research of excellence within CERNESIM center (CER-CE).

Publications

Most relevant 5 publications:

1. **Bejan, I.G.**; Olariu, R.-I.; Wiesen, P.; Secondary organic aerosol formation from nitrophenols photolysis under atmospheric conditions, *Atmosphere*, 11, 12, (2020)
2. Gastón Gibilisco, R., Barnes, I., **Bejan, I.**, Wiesen, P., Atmospheric fate of two relevant unsaturated ketoethers: Kinetics, products and mechanisms for the reaction of hydroxyl radicals with (E)-4-methoxy-3-buten-2-one and (1E)-1-methoxy-2-methyl-1-penten-3-one, *Atmospheric Chemistry and Physics*, 20, 14, 8939-8951, 2020.
3. **Bejan I.**, Duncianu M., Olariu R., Barnes I., Seakins P.W., Wiesen P., Kinetic study of the gas-phase reactions of chlorine atoms with 2-chlorophenol, 2-nitrophenol, and four methyl-2-nitrophenol isomers, *Journal of Physical Chemistry A*, (20) 4735-4745, 2015.
4. **Bejan, I.**, I. Barnes, R. Olariu, Sh. Zhou, P. Wiesen, Th. Benter, Investigations on the gas-phase photolysis and OH radical kinetics of methyl-2-nitrophenols, *Physical Chemistry Chemical Physics*, 9, 5686-5692, 2007.
5. **Bejan, I.**, Y. Abd El Aal, I. Barnes, Th. Benter, B. Bohn, P. Wiesen, J. Kleffmann, The Photolysis of ortho-nitrophenol: a new gas phase source of HONO, *Physical Chemistry Chemical Physics*, 8, 2028-2035, 2006.

Conferences

Most relevant 5 conferences:

1. 1st General Assembly, EGU, Geophysical Research Abstracts, 6, EGU04-A-07566, ISSN:1029-7006, 2004, 25 - 30 April, Nice, France, Bejan, I., I. Barnes, R. Olariu and R. Mocanu, Secondary Organic Aerosol Formation from the Photolysis of Nitrophenols and Nitrocresols.
2. General Assembly, 2005, EGU, Geophysical Research Abstracts, 7, 06143, , 2005, 24 - 29 April, Vienna, Austria, Bejan, I., I. Barnes, R. Olariu, K. H. Becker and R. Mocanu, New Results on the Atmospheric Chemistry of Oxygenated Aromatic Compounds.
3. General Assembly, EGU, Geophysical Research Abstracts, Vol 8, 06160, 2006, 2-7 April, Vienna, Austria, Bejan, I., I. Barnes, T. Benter, B. Bohn, Y. El Shorbany, P. Wiesen and J. Kleffmann, The Photolysis of ortho-Nitrophenols: A New Gas Phase Source of HONO.
4. The 20th International Symposium on Gas Kinetics, 2008, 20-25 July, Manchester, United Kingdom, Bejan I., G. Villena Tapia, I. Barnes, T. Benter, P. Wiesen, J. Kleffmann, Investigations on the Photolysis of ortho-Nitroalkylated aromatics: A new gas phase source of HONO.
5. Atmospheric Chemical Mechanisms, 2008, 10-12 December, 2008, Davis, USA, Bejan I., M. Duncianu and I. Barnes, Phenoxy-Type Radical Formation from the Oxidation of Phenolic-Type Compounds - Investigations on Nitrophenols.

Journal Reviewer

Chemical Physics Letters	Environmental Science and Technology
International Journal of Chemical Kinetics	Atmospheric Environment
Journal of Physical Chemistry A	Physical Chemistry Chemical Physics
Catalysis	Atmospheric Measurements Techniques
Earth System Science Data	Energies
Atmosphere	Chemosphere
Atmospheric Chemistry and Physics	Nanomaterials
Remote Sensing	Energies



Dr. Iustinian Gabriel BEJAN