



Europass Curriculum Vitae



Personal information

First name / Surname

Assoc. Prof. Gabriela SOREANU, PhD. Habil. Eng.

Address

“Gheorghe Asachi” Technical University of Iasi, “Cristofor Simionescu” Faculty of Chemical Engineering and Environmental Protection, Department of Environmental Engineering and Management, 73 D. Mangeron Blvd, Iasi, 700050, Romania

Telephone

0232-278683, int.2226

E-mail

gabriela.soreanu@academic.tuiasi.ro ; gsor10@yahoo.ca

Nationality

Romanian

Date of birth

14/02/1972

Gender

Female

Online academic profile

<https://www.researchgate.net/profile/Gabriela-Soreanu>

<https://orcid.org/0000-0002-8341-9039>

<https://www.webofscience.com/wos/author/record/KLY-2558-2024>

<https://scholar.google.com/citations?user=i-hebMAAAAJ&hl=ro>

Professional experience

Dates

Since 2021

Occupation or position held

Associate Professor

Name and address of employer

“Gheorghe Asachi” Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection

Dates

Since 2013

Occupation or position held

Lecturer

Name and address of employer

“Gheorghe Asachi” Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection

Dates

Since 2002

Occupation or position held

Teaching assistant

Name and address of employer

“Gheorghe Asachi” Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection

Dates

2001

Occupation or position held

Research assistant

Name and address of employer

“Gheorghe Asachi” Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection

Education and training

Dates

2025

Title of qualification awarded

Habilitation (PhD Supervisor) in Environmental Engineering

Principal subjects/occupational skills covered/Specialisation

Environmental engineering (with associated and complementary approaches)

Name and type of organisation providing education and training

Doctoral School of “Gheorghe Asachi” Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection

Dates	1996-2000
Title of qualification awarded	PhD in Chemical Engineering
Principal subjects/occupational skills covered/Specialisation	Optimisation of chemical processes
Name and type of organisation providing education and training	"Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection
Dates	1995-1996
Title of qualification awarded	MSc in Chemistry
Principal subjects/occupational skills covered/Specialisation	Unconventional methods of wood and other vegetal resources chemical processing
Name and type of organisation providing education and training	"Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection
Dates	1990-1995
Title of qualification awarded	BSc in Chemical Engineering
Principal subjects/occupational skills covered/Specialisation	Technology of cellulose, paper and fibers
Name and type of organisation providing education and training	"Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection
Relevant specialisation stages	
Dates	2004-2007
Title of qualification awarded	NSERC (The Natural Sciences and Engineering Research Council of Canada) postdoctoral fellow
Principal subjects/occupational skills covered/Project field	Biotreatment of hydrogen sulphide from biogas
Name and type of organisation providing education and training	Environment Canada, Wastewater Technology Centre, Burlington, ON, Canada
Dates	2002-2003
Title of qualification awarded	Postdoctoral fellow and teaching assistant
Principal subjects/occupational skills covered/Project field	Biofiltration of volatile organic compounds from air
Name and type of organisation providing education and training	Université de Sherbrooke, Faculté de Génie, Sherbrooke, QC, Canada
International and national grants within the last 10 years	<ul style="list-style-type: none"> • Project 739/ 25.07.2025, Program PR/NE/2024/P1/RSO1.1_RSO1.3/1 / RDI projects and investments in SME, 2025-2027 (team member), title: Innovative biomass gasification green hydrogen plant with advanced filtration system / Green-Gas-H2; • Upcycling of wastes and by-products to green chemicals and energy (UP2Green), awarded in the internal research grants competition of INGENIUM Project, financed by the Erasmus-Edu-2022-Eur-Univ Project, nr. 101090042, 2024-2025 (team member); • Project PCE 39/2021, Program PN-III-P4/ Fundamental and frontier research (UEFISCDI), 2021-2023 (director), title: Biofiltration of air from urban automotive underground spaces / BIO-AUTO; • Project 301PED/2020, Program PN-III-P2-2.1/ Competitiveness through research, development and innovation (UEFISCDI), 2020-2022 (director), title: Biotrickling filtration upgrade in the context of atmospheric protection and climate change / BIO-UP; • Project RDI-STAR 157/2017, RDI Program for Space Technology and Advanced Research-STAR (Romanian Space Agency-ROSA), 2017-2019 (director), title: Sustainable biochemical method for air revitalization in spacecrafts / BIO-MARS; • Project ERANET 107 / 01.05.2019, 2019-2022 (team member), title: Closing the Water Cycle Gap with Harmonised Actions for Sustainable Management of Water Resources/Water Harmony; • Bilateral project of research Romania-Norway RO14/EEA Grants, National Research Authority, no. 18 BIL/2017 (director), title: Bioconcepts in environmental protection and management: promoter of bilateral relationship between Romanian and Norwegian research entities; • Grants awarded within Program of international competition, University of Castilla La Mancha, Spain, June 2017 (1 month), September 2016 (1 month) (principal investigator), research: Energetic valorization of biomass; • Grant 305P/23.02.2016, Technical University "Gheorghe Asachi" of Iasi, Romania, 2016 (director): Study concerning the measurements of gas emissions issued from the building heating systems in the urban area of Iasi municipality; • Project PN-II-PT-PCCA-2013-4-2165, National Partnership Program, 2014-2016 (team member), title: Autonom antibacterial venting and luminating modular green system for curtain wall/ VALMGreen.

Other achievements related to expertise and international visibility

- **Co-director of PhD thesis at *University of Castilla La Mancha (Spain)*** – 2016 to 2019;
- **PhD Thesis Referee Committee Member, *University of Castilla La Mancha (Spain)*** – July 2017, July 2018;
- **Editorial board member of *Nanotechnology for Environmental Engineering (Springer)*** – since 2015; *Sustainability (MDPI)* – since 2020; *Processes (MDPI)* – since 2023; *Advanced Chemical Process Analysis (Scilight)* – since 2024; *Industrial Bioreactor Engineering (Wiser)* – since 2024; *Environmental Remediation (MDPI)* - since 2025; *Climate Policy and Green Economy Journal (UK Scientific Publishing Ltd)* – since 2026;
- **Invited professor, *University of Castilla La Mancha (Spain)*** – June 2014, July 2015;
- **Invited expert, AUF federal meeting (L'Agence Universitaire de la Francophonie)(Bulgary)** – March 2012;
- **Academic responsible for interinstitutional agreements within Erasmus program EU (*University of León –Spain, 2016-2027, University of Nantes – France, 2018-2027*) and Non-EU (*Université de Sherbrooke –Canada, 2015-2027*);**
- **Scientific reviewer** for many ISI quoted journals (since 2008): *Bioreactor Technology, Chemical Engineering Journal, Journal of Environmental Engineering and Science, Applied Microbiology and Biotechnology, Journal of Biotechnology, Environmental Technology, Journal of Hazardous Materials, International Journal of Chemical Reactor Engineering, Process Biochemistry, International Journal of Chemical Engineering, Journal of Zhejiang University Science, Journal of Chemical Technology and Biotechnology, Process Safety and Environmental Protection, Journal of Agricultural Science, Environmental Science and Technology, Desalination and Water Treatment, CLEAN - Soil, Air, Water; Air Quality, Atmosphere & Health, Applied Biochemistry and Biotechnology, Chemosphere, Biosystems Engineering, Environmental Science and Pollution Research, Applied Biochemistry and Biotechnology, Fuel, Biochemical Engineering Journal, Clean Technologies and Environmental Policy, Sustainable Materials and Technologies, Frontiers in Astronomy and Space Sciences, Sustainability.*

Didactical activity

Pollution prevention and environmental protection;
 Low environmental impact technologies;
 Optimisation of technological processes;
 Technologies of acquisition, monitoring and diagnosis of environmental quality;
 Environmental monitoring;
 Green technologies for atmospheric protection (international lecture)

Research interests

Biological treatment of gaseous fluxes;
 Processing of liquid fluxes and energetical valorisation of biomass;
 Modelling and optimisation of processes in chemical and environmental engineering

Scientific portfolio

Books/chapters: 14 (1 co-edited Elsevier book, 2 Elsevier book chapters, 2 InTech book chapters, 1 IGI-Global book chapter)
 Articles in journals and conference proceedings: 78 (**38 in ISI journals***, 10 in conference proceeding)
 Patents: 6
Cumulated IF=206*
 (* based on updated impact factors)
 Scientific visibility: **Hirsh index (h) = 22 (Scopus)**

Awards and medals for research-innovation (selected)

2016 - Salon Bruxelles-INNOVA 2016 (**Gold medal**)
 2009 – Salon International des Inventions de Genève, Switzerland (**Gold Medal**);
 2008 – The Belgian and International Trade Fair for Technological Innovation – INNOVA, Brussels, Belgium (**Gold Medal**)

International collaborations

Environment Canada, Université de Sherbrooke, University of Guelph, Research and Development Institute for the Agri-Environment Québec, University of Castilla La Mancha, University of Leon, Norwegian University of Life Sciences, University of Nantes

Personal skills and competences

Mother tongue(s)
 Other language(s)
 Self-assessment
European level ()*

Romanian

French language
English language

Understanding		Speaking				Writing			
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient User	C2	Proficient User	C1	Proficient User	C1	Proficient User	C1	Proficient User
C1	Proficient User	C2	Proficient User	C1	Proficient User	C1	Proficient User	C1	Proficient User

(*) *Common European Framework of Reference for Languages*

Technical skills and competences

Process engineering, conception and exploitation of equipments in environmental engineering

Organisational skills and competences	<p>Organization of scientific events:</p> <ul style="list-style-type: none"> - Co-Chair of workshops within different projects (STAR, PED, PCE) during their implementation - Chair of the international conference organising committee (CSA 2015 Joint International Conference, Iasi, Romania) - Member of the international conference scientific committee (ECP 2026, MDPI, online) - Member of the secretary committee of International and national conferences (ZFICPM2009-2012; ICEEM2002, 2015, 2017) <p>Scientific coordination of students:</p> <ul style="list-style-type: none"> - Coordination of BSc, MSc and PhD Thesis, Mentor for PhD students <p>Management of research projects:</p> <ul style="list-style-type: none"> - Certificate in Project Management (Canada) - BIO-SPACE LIFE Laboratory Head (TUIASI)
Social skills and competences	Running of individual and team activities, in the frame of multidisciplinary and multicultural environments (e.g. Environment Canada, Université de Sherbrooke)
Driving licence	B
List of Publications (selected)	<p>Selected relevant publications</p> <ol style="list-style-type: none"> 1. Soreanu G., Dumont E. (eds.) (2020). From Biofiltration to Promising Options in Gaseous Fluxes Biotreatment: Recent Developments, New Trends, Advances, and Opportunities. Elsevier. ISBN 9780128190647 2. Soreanu G., Tanase C., Mardari C., Cretescu I. (2025). Assessment of air purification biosystems for environmental applications, Process Safety and Environmental Protection. 195, 106742. IF=6.9 3. Lisa G., Cretescu I., Enache A.C., Tanase C., Samoila P., Mardari C., Soreanu G.* (2025). Effects of biofiltration on the physical-chemical-biological profile of the aerial plants used for toluene removal from waste air, revealing new opportunities for circular economy. Renewable and Sustainable Energy Reviews 207, 114890. IF=16.3 4. Soreanu G., Cretescu I., Diaconu M., Cojocaru C., Ignat M., Samoila P., Harabagiu V. (2021). Investigation of a biosystem based on <i>Arthrospira platensis</i> for air revitalisation in spacecrafts: Performance evaluation through response surface methodology. Chemosphere 264, 128465. 5. Parascanu M.M., Sánchez P., Soreanu G., Valverde J.L., Sanchez-Silva L. (2018). Environmental assessment of olive pomace valorization through two different thermochemical processes for energy production. Journal of Cleaner Production 186:771-781, 2018. IF=9.8 6. Soreanu G., Tomaszewicz M., Fernandez-Lopez M., Valverde J.L., Zuwata J., Sanchez-Silva L. (2017). CO₂ gasification process performance for energetic valorization of microalgae. Energy 119: 37-43. IF=9.0 7. Soreanu G. (2016). Insights into siloxane removal from biogas in biotrickling filters via process mapping-based analysis. Chemosphere 146: 539-546. 8. Soreanu G., Dixon M., Darlington A. (2013). Botanical biofiltration of indoor gaseous pollutants – A mini-review. Chemical Engineering Journal 229: 585-594. (article is feature on the cover of the issue) IF=13.4 9. Soreanu G., Falletta P., Béliand M., Edmonson K., Ventresca B., Seto P. (2010). Empirical modelling and dual-performance optimisation of a hydrogen sulphide removal process for biogas treatment. Bioresource Technology 101(23): 9387-9390. IF=9.7 10. Dastous P.A., Nikiema J., Soreanu G., Bibeau L., Heitz M. (2008). Elimination of methanol and ethanol by biofiltration: An Experimental Study. Water Air and Soil Pollution - Focus 8(3): 275-286. <p>Cumulative IF = 65.1, for the above selected publications</p>
Date	May 2026
	Assoc. Prof. dr. habil. eng. Gabriela Soreanu