

Europass Curriculum Vitae



Informatii personale

Prenume / Nume

Sef lucrari dr. ing. Gabriela SOREANU

Adresa

Universitatea Tehnica "Gheorghe Asachi" Iasi, Facultatea de Inginerie Chimica si Protectia Mediului, Departamentul de Ingineria si Managementul Mediului, Blvd. D. Mangeron 73, Iasi, 700050, Romania

Telefon

0232-278683, int.2226

Fax

0232-278683

E-mail

gsor@tuiasi.ro

Nationalitate

Romana

Date nasterii

Gen

Feminin

Experienta profesionala

Perioada

Din 2013

Functia sau pozitia ocupata

Sef lucrari universitar

Denumirea si adresa angajatorului

Universitatea Tehnica "Gheorghe Asachi" Iasi, Facultatea de Inginerie Chimica si Protectia Mediului

Perioada

Din 2002

Functia sau pozitia ocupata

Asistent universitar

Denumirea si adresa angajatorului

Universitatea Tehnica "Gheorghe Asachi" Iasi, Facultatea de Inginerie Chimica si Protectia Mediului

Perioada

2001

Functia sau pozitia ocupata

Asistent de cercetare

Denumirea si adresa angajatorului

Universitatea Tehnica "Gheorghe Asachi" Iasi, Facultatea de Inginerie Chimica si Protectia Mediului

Educatie

Perioada

1996-2000

Titlu / calificare

Doctor in Inginerie Chimica

Specializarea

Optimizarea proceselor chimice

Denumirea organizatiei

Universitatea Tehnica "Gheorghe Asachi" Iasi, Facultatea de Inginerie Chimica si Protectia Mediului

Perioada

1995-1996

Titlu / calificare

Master in profilul Chimie

Specializarea

Procedee neconventionale de prelucrare chimica a lemnului si a altor resurse vegetale

Denumirea organizatiei

Universitatea Tehnica "Gheorghe Asachi" Iasi, Facultatea de Inginerie Chimica si Protectia Mediului

Perioada	1990-1995
Titlu / calificare	Inginer Chimist
Specializarea	Tehnologia celulozei, hartiei si fibrelor
Denumirea organizatiei	Universitatea Tehnica "Gheorghe Asachi" Iasi, Facultatea de Inginerie Chimica si Protectia Mediului

Stagii de formare relevante

Perioada	2004-2007
Titlu / calificare	Postdoc NSERC (The Natural Sciences and Engineering Research Council of Canada)
Domeniul proiectului	Biotreatment of hydrogen sulphide from biogas
Denumirea organizatiei	Environment Canada, Wastewater Technology Centre, Burlington, ON, Canada

Perioada	2002-2003
Titlu / calificare	Postdoc si asistent universitar
Domeniul proiectului	Biofiltration of volatile organic compounds from air
Denumirea organizatiei	Université de Sherbrooke, Faculté de Génie, Sherbrooke, QC, Canada

Granturi internationale si nationale in ultimii 5 ani

- Proiect 301PED/2020, Programul PN-III-P2-2.1/ Competitivitate prin cercetare, dezvoltare și inovare (UEFISCDI), 2020-2022 (**director**), titlu: Biotrickling filtration upgrade in the context of atmospheric protection and climate change / BIO-UP;
- Proiect CDI-STAR 157/2017, RDI Program for Space Technology and Advanced Research-STAR (Romanian Space Agency-ROSA), 2017-2019 (**director**), titlu: Sustainable biochemical method for air revitalization in spacecrafts / BIO-MARS;
- Proiect ERANET 107 / 01.05.2019, 2019-2021 (**membru**), titlu: Closing the Water Cycle Gap with Harmonised Actions for Sustainable Management of Water Resources / Water Harmony;
- Proiect bilateral de cercetare Romania-Norvegia RO14/EEA Grants, National Research Authority, nr. 18 BIL/2017 (**director**), titlu: Bioconcepts in environmental protection and management: promoter of bilateral relationship between Romanian and Norwegian research entities;
- Grant Program of international competition, University of Castilla La Mancha, **Spania**, iunie 2017 (1 luna) (**investigator principal**), research: Energetic valorization of biomass;
- Grant Program of international competition, University of Castilla La Mancha, **Spania**, septembrie 2016 (1 luna) (**investigator principal**), research: Energetic valorization of biomass;
- Grant Program of international competition, University of Castilla La Mancha, **Spania**, co-founded by European Funds for Regional Development, iulie 2015 (1 luna) (**investigator principal**), research: Energetic valorization of biomass;
- Grant 305P/23.02.2016, Universitatea Tehnica "Gheorghe Asachi" din Iasi, 2016 (**director**), titlu: Masurarea unor parametri fizici si chimici la emisie pentru un lot de centrale termice de apartament aflate in exploatare in diferite locatii din zona urbana a municipiului Iasi;
- Proiect PN-II-PT-PCCA-2013-4-2165, National Partnership Program, 2014-2016 (**membru**), titlu: Modul ecologic independent energetic pentru ventilare si iluminare cu proprietati antibacteriene utilizat pentru acoperirea peretilor exteriori / VALMGreen.

Alte realizari legate de expertiza si vizibilitate internationala

- Co-director PhD thesis, **University of Castilla La Mancha (Spain)** – 2016-2019;
- Membru comisie referenti doctorat sustinere teze, **University of Castilla La Mancha (Spain)** – iulie 2017, iulie 2018
- Membru comitet editorial, *Nanotechnology for Environmental Engineering* (**Springer** journal) – din 2015; *Sustainability* (**MDPI** journal) – din 2020;
- Profesor invitat, **University of Castilla La Mancha (Spain)** – iunie 2014, iulie 2015;
- Expert invitat, **AUF** federal meeting (The Agence Universitaire de la Francophonie) (Bulgaria) – martie 2012;
- Responsabil acorduri internationale (**Université de Sherbrooke – Canada, University of León – Spain, University of Nantes - France**) in cadrul programului Erasmus – 2015 to 2021;
- Referent stiintific jurnale cotate ISI (din 2008): *Bioresource 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*, *Biochemical Engineering Journal*.

Activitate didactica

Prevenirea poluarii si protectia mediului;
Optimizarea proceselor tehnologice;
Tehnologii de achizitie, monitorizare si diagnoza a calitatii mediului;
Monitorizarea mediului / Environmental monitoring;
Green technologies for atmospheric protection (international lecture)

Domenii de cercetare

Tratarea biologica a fluxurilor gazoase;
Procesarea fluxurilor lichide si valorificarea energetica a biomasei;
Modelarea si optimizarea proceselor din ingineria chimica si a mediului

Portofoliu stiintific

Carti: 12 (1 co-edited Elsevier book, 2 Elsevier book chapters, 1 InTech book chapter)
Articole in reviste si proceedings: 52 (**32 in jurnale ISI***, 8 in conference proceeding)
Brevete: 3
IF cumulat > 115*
(*bazat pe factorii de impact actualizati)

Vizibilitate: **Hirsh index (h) = 14 (Scopus); 11 (Web of Science); 16 (Google Academic)**
Citari, Scopus = 689 (632 fara autocitari);
Citari Google Academic = 1191.

Premii si medalii pentru cercetare-inovare (selectate)

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**)

Colaborari internationale

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

Competente personale

Limba materna **Romana**

Limbi straine

Self-assessment

European level (*)

Franceza

Engleza

Intelegere				Vorbire				Scriere	
Ascultare		Citire		Participare conversatie		Discurs oral			
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

Competente tehnice Ingineria proceselor, conceperea si exploatarea echipamentelor in ingineria mediului

Competente organizationale

Organizare de evenimente stiintifice:

- **Co-Chair** workshops ("Promotion of Romanian Research Networking towards ESA's Programs", Iasi, Romania, february 2018; "New RDI initiatives under STAR Programme in order to meet ESA's objectives", Iasi, Romania, november 2019)
- **Chair** comitet de organizare conferinta internationala (CSA 2015 Joint International Conference, Iasi, Romania, october 2015)
- Membru comitet de secretariat conferinte nationale si internationale (ZFICPM2009-2012; ICEEM2002, 2015, 2017)

Coordonare stiintifica a studentilor:

- Coordonare lucrari de licenta si masterat
- **Coordonare lucrari doctorat: 1 (co-director, 2016-2019, UCLM-Spania)**

Managementul proiectelor de cercetare:

- **Certificat** in Project Management (Canada)
- Coordonator laborator cercetare BIO-SPACE LIFE (TUIASI)

Competente sociale Desfasurare activitati individuale si in echipa, in cadrul mediilor multiculturale si multidisciplinare (ex. Environment Canada, Université de Sherbrooke)

Permis de conducere B

Lista de publicatii (selectate)

Publicatii selectate relevante

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., Cretescu I., Diaconu M., Cojocaru C., Ignat M., Samoilă P., Harabagiu V.** (2021). Investigation of a biosystem based on *Arthrospira platensis* for air revitalisation in spacecrafts: Performance evaluation through response surface methodology. **Chemosphere** 264, Part 2, doi.org/10.1016/j.chemosphere.2020.128465. **IF=5.778**
3. **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=6.082**
4. Parascanu M.M., Sandoval-Salas F., **Soreanu G.**, Valverde J.L., Sanchez-Silva L. (2017) Valorization of Mexican biomasses through pyrolysis, combustion and gasification processes. **Renewable and Sustainable Energy Reviews** 71: 509-522. **IF=12.110**
5. **Soreanu G.** (2016). Insights into siloxane removal from biogas in biotrickling filters via process mapping-based analysis. **Chemosphere** 146: 539-546. **IF=5.778**
6. Raschitor A., **Soreanu G.**, Fernandez-Marchante C.M., Lobato J., Cañizares P., Cretescu I., Rodrigo M.A. (2015). Bioelectro-Claus processes using MFC technology: Influence of co-substrate. **Bioresource Technology** 189: 94-98. **IF=7.539**
7. **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=10.652**
8. **Soreanu G., Falletta P., Béland 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=7.539**
9. 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. **IF=1.900**
10. **Soreanu G., Béland M., Falletta P., Edmonson K., Seto P.** (2008). Laboratory pilot scale study for H₂S removal from biogas in an anoxic biotrickling filter. **Water Science and Technology** 57(2): 201-207. **IF=1.638**

IF cumulat = 59.016, pentru publicatiile selectate mai sus

Data 10 ianuarie 2021

Sef lucrari dr. ing. Gabriela Soreanu

