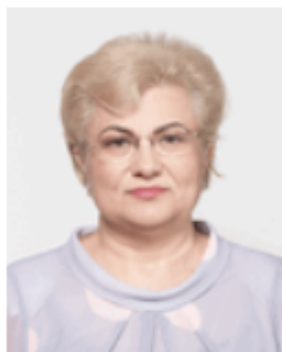




## Curriculum vitae Europass



### PERSONAL INFORMATION

Name	CURTEANU, Silvia
Address	Str. Eternitate No. 69A, Iași, 700329, România
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Nationality	Romanian
Date of birth	02.09.1957

### PROFESSIONAL EXPERIENCE

Period	<b>2005-currently</b>
Name and address of employer	"Gheorghe Asachi" Technical University, Faculty of Chemical Engineering and Environmental Protection, Bd. Dimitrie Mangeron, No.73A, Iasi
Type of activity	PhD supervisor in Chemical Engineering
Function	<b>PhD supervisor</b>
• Main activities and responsibilities	<ul style="list-style-type: none"><li>- thesis coordination</li><li>- management of POSDRU projects for doctoral scholarships</li></ul>
Period	<b>2003 – currently</b>
Name and address of employer	"Gheorghe Asachi" Technical University, Faculty of Chemical Engineering and Environmental Protection, Department of Chemical Engineering, Bd. Dimitrie Mangeron, No.73A, Iasi
Type of activity	Teaching and research
Function	<b>Professor</b>
Main activities and responsibilities	<ul style="list-style-type: none"><li>- teaching activity for license cycle, postgraduate courses (courses, applications) to disciplines: Applied informatics, Automation of processes from chemical industry.</li><li>- scientific research in the field of chemical engineering, environmental engineering, engineering of polymerization processes;</li><li>- PhD coordination in Chemical engineering field;</li><li>- coordination of research activities for the students;</li><li>- scientific coordinator for license and dissertation works;</li><li>- vicedean from 2012</li><li>- member in the Council of the faculty and of the University Senate;</li><li>- executive director of the Doctoral school of the faculty;</li><li>- coordination of the laboratory "Applied Informatics";</li><li>- member in committees to promote teaching positions or doctoral committees;</li><li>- scientific reviewer or president in doctoral committees;</li><li>- coordinator of the Research Center "Chemical and biochemical process engineering and advanced materials", Faculty of Chemical Engineering and Environmental Protection</li></ul>
Period	<b>1999-2003</b> , associate professor
	<b>1993-1999</b> , lecturer

Name and address of employer	1987-1993, assistant 1986-1987, associate assistant "Gheorghe Asachi" Technical University, Faculty of Chemical Engineering and Environmental Protection, Department of Chemical Engineering Bd. Dimitrie Mangeron, No.73A, Iasi
Type of activity	Teaching and research
Function	associate professor, lecturer, assistant, associate assistant,
Main activities and responsibilities	- teaching activity for license cycle, postgraduate courses (courses, applications) to disciplines: Computer programming, Computer use in the chemical industry, Information technology, Informatics in investigation techniques, Automation of the chemical engineering processes, Computer control of the chemical engineering processes; - scientific research in the field of chemical engineering, environmental engineering, engineering of polymerization processes; - coordination of research activities for students; - scientific coordinator for license and dissertation works; - member in the Faculty Council - executive director of the Doctoral school of the faculty; - coordination of the laboratory "Applied Informatics"; - member in committees for promoting teaching positions and in doctoral committees;
Period	1983 – 1987
Name and address of employer	"Petru Poni" Institute of Macromolecular Chemistry, Iași
Type of activity	Research, microproduction
Function	Researcher
Main activities and responsibilities	-polyvinyl carbazole, synthesis and characterization - free radical polymerization of styrene - living polymerization
Period	1981 – 1983
Name and address of employer	Holding of Chemical Rubber Technical Articles Jilava Bucharest and the Company of Plastics Processing, Iași.
Type of activity	Working stage in industry
Function	Trainee engineer
Main activities and responsibilities	Surveillance of technological processes

### EDUCATIE SI FORMARE

Period	1976 -1981
Diploma	Chemical engineering Profile – Technology of Macromolecular Compounds
Name of the educational institution	Polytechnic Institute of Iasi
Period	1990 -1998
Diploma	Ph.D. Engineer Profile – Chemistry
Name of the educational institution	„Gheorghe Asachi” Technical University of Iasi
The level of classification training / education	ISCED 6

NATIVE LANGUAGE | Romanian

### FOREIGN LANGUAGES

Auto evaluation <i>European level (*)</i>	Understanding				Speaking				Writing	
	Listening		Reading		Conversation		Spoken		Written expression	
<b>French</b>	C1	Experienced user	C1	Experienced user	C1	Experienced user	C1	Experienced user	B1	independent user
<b>English</b>	B1	independent user	B1	independent user	B1	independent user	B1	independent user	B2	independent user

## Competencies/Research directions

- Modelling and optimization of chemical engineering processes
- Using artificial intelligence tools for modelling and optimization of chemical engineering processes
- Artificial neural networks
- Evolutionary algorithms
- Support vector machines
- Swarm intelligence algorithms

## Scientific portfolio

Articles published: **213** (with **152** in ISI journals, **23** red area, **31** yellow area))  
Total ISI value = **212.67**  
Citations (ISI): **1090** (without auto citations)  
Hirsch Index (ISI): **21**  
Books/book chapters: **24** (**9** with Publishers from abroad)  
Patents: **14** (1 international patent)  
Conferences: **135**  
Research grants: **33** from which **12** as project director and **5** in international partnership.  
Doctoral thesis: **7** thesis completed.

## Specializations / internships

- **2007** - Training on transfer technological problems at WTSH (Wirtschaftsforderung und Technologie transfer Schleswig-Holstein, Business Development and Technology Transfer Corporation of Schleswig-Holstein), Kiel, Germany. Subject: *strategies of technological transfer*.
- **2008** – Research stage at Oxford University, Physical and Theoretical Chemistry Laboratory, England. Subject: *neural networks and genetic algorithms applied in chemistry and bio-chemistry*.
- **2010** – Research stage, Aristotle University of Thessaloniki, Greece, Faculty of Sciences, Department of Chemistry. Subject: *applications of artificial intelligence methods to processes of environmental protection field*.

## MANAGEMENT AND ORGANIZATIONAL SKILLS

- **2009 – 2012**, Director at Faculty level for the project "Doctoral Scholarships for Performance in Research at European Level (EURODOC)", POSDRU project.
- **2009 – 2013**, Long term level A expert / tutor for the post-doctoral project "Performance in post-doctoral studies for the integration within the European research field" (PERFORM-ERA)
- **2008 – 2011**, Long term level A expert for the project "Doctoral Scholarships - An investment in intelligence (BRAIN)", POSDRU project.
- **2012 – currently**, Coordinator of the Research Center "Chemical and biochemical process engineering and advanced materials", Faculty of Chemical Engineering and Environmental Protection.
- **2003 – currently**, Coordinator of the laboratory "Applied Informatics", Faculty of Chemical Engineering and Environmental Protection.
- **2007 - 2017**, Executive Director of the Doctoral School with the Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi.
- **2018 – currently**, Member of the Doctoral School Council of "Gheorghe Asachi" Technical University
- **2012 – 2020**, Vice-dean at the Faculty of Chemical Engineering and Environmental Protection.
- **2020 – currently**, Director of the Chemical Engineering Department
- Director of 12 research grants.
- Member in the Faculty Council.
- Member in the University Senate, Commission for informatization and digital services and Commission for student activities and social services.

## Additional information

**Member of Editorial board** of the following journals:

- Environmental Engineering and Management Journal
- Annals of the Academy of the Romanian Scientists – Series on Chemistry
- Artificial Intelligence Research
- International Journal of Artificial Intelligence
- Bulletin of the Polytechnic Institute of Iasi

**Reviewer** for books and articles at publishers and journals such as:

Zentralblatt für Mathematik, Fluid Phase Equilibria, Environmental Engineering and Management Journal, International Journal of Quantum Chemistry, Journal of Polymer Engineering, Chemical Engineering Science, Industrial & Engineering Chemistry Research, Journal of Applied Polymer Science, Chemical Engineering Communications, Macromolecular Reaction Engineering, Journal of Hazardous Materials, International Journal of Chemical Reactor Engineering, Catalysis Today, Macromolecular Theory and Simulation, Ain Shams Engineering Journal, Scientific Research and Essays, Environmental Technology, Analytica Chimica Acta, Artificial Intelligence Research, Chemical Engineering Journal etc.

**Expert** for assessment of different types of CNCSIS projects, for initial evaluation or projects being in intermediate or final stages.

CNATDCU member from 2012-2018, Commission of chemical engineering, medical engineering, materials science and nanomaterials.

## Annexes

*S. Curteanu*