



Europass Curriculum Vitae

PERSONAL INFORMATION

Name and surname

Sergiu COȘERI

Address

"Petru Poni" Institute of Macromolecular Chemistry, Iasi
41A Grigore Ghica Voda Alley, 700487, Iasi, Romania

Phone

0332 880 222

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coseris@icmpp.ro

Nationality

Romanian



POSITION

First degree scientific researcher – “Petru Poni” Institute of Macromolecular Chemistry, Iasi

PhD supervisor, field: Chemistry

Head of laboratory "Polyaddition and Photochemistry" – “Petru Poni” Institute of Macromolecular Chemistry, Iasi

PROFESSIONAL EXPERIENCE

Period

May 2020 – Present

Occupation or position

Head of laboratory "Polyaddition and Photochemistry" – “Petru Poni” Institute of Macromolecular Chemistry, Iasi

The main activities and responsibilities

Coordinating the research activity of the team members. Designing and proposing new research topics. Attracting extra-budgetary funds for research activity. Collaboration with national and international scientific entities.

Name and address of employer

"Petru Poni" Institute of Macromolecular Chemistry, Iasi, 41A Grigore Ghica Voda Alley, 700487, Iasi, Romania

Period

February 2019 – Present

Occupation or position

First degree scientific researcher – “Petru Poni” Institute of Macromolecular Chemistry, Iasi

The main activities and responsibilities

Designing and proposing new research topics. Attracting extra-budgetary funds for research activity. Collaboration with national and international scientific entities. Publication and supervision of scientific articles.

Name and address of employer

"Petru Poni" Institute of Macromolecular Chemistry, Iasi, 41A Grigore Ghica Voda Alley, 700487, Iasi, Romania

Period

January 2014 – January 2019

Occupation or position

Second degree scientific researcher – “Petru Poni” Institute of Macromolecular Chemistry, Iasi

The main activities and responsibilities

Experimental design activities. Guidance and coordination of young researchers. Publication of scientific papers. Participation in the implementation of scientific projects.

Name and address of employer	"Petru Poni" Institute of Macromolecular Chemistry, Iasi, 41A Grigore Ghica Voda Alley, 700487, Iasi, Romania
Period	January 2007 – December 2013
Occupation or position	Grade III scientific researcher – “Petru Poni” Institute of Macromolecular Chemistry, Iasi
The main activities and responsibilities	Carrying out practical laboratory work. Writing scientific papers. Drafting project proposals. Participation in symposia and workshops. Coordination of new members of the laboratory.
Name and address of employer	"Petru Poni" Institute of Macromolecular Chemistry, Iasi, 41A Grigore Ghica Voda Alley, 700487, Iasi, Romania
Period	January 1998 – December 2006
Occupation or position	Scientific researcher – “Petru Poni” Institute of Macromolecular Chemistry, Iasi
The main activities and responsibilities	Laboratory work, synthesis, separation, purification of compounds. Writing scientific articles. Drafting project proposals for grant competitions.
Name and address of employer	"Petru Poni" Institute of Macromolecular Chemistry, Iasi, 41A Grigore Ghica Voda Alley, 700487, Iasi, Romania
Period	October 1992 – December 1997
Occupation or position	Research assistant – “Petru Poni” Institute of Macromolecular Chemistry, Iasi
The main activities and responsibilities	Laboratory work, synthesis, separation, purification of compounds. Writing scientific articles. Drafting project proposals for grant competitions.
Name and address of employer	"Petru Poni" Institute of Macromolecular Chemistry, Iasi, 41A Grigore Ghica Voda Alley, 700487, Iasi, Romania
Period	1991 – 1992
Occupation or position	Chemistry teacher – "Petru Rares" School, Harlau, Iasi, Romania
The main activities and responsibilities	Chemistry teacher for college students.
Name and address of employer	"Petru Rares" General School, Stefan cel Mare Street, no. 2, Harlau, Iasi, Romania
EDUCATION	
Period	August 2016
Activities carried out, title/qualification obtained	Defending the habilitation thesis, entitled: " Nitroxyl radicals mediated functionalization of biopolymers: from synthesis to application ". Conferring the title accordingly OMENCS no. 4830/11.08.2016 .
Name and type of organization	ROMANIAN ACADEMY, Calea Victoriei 125, Sector 1, Code 010071, Bucharest, Romania.
Period	June 2010 – March 2013
Activities carried out, title/qualification obtained	Postdoctoral Fellowship Grant, European Social Fund – “Cristofor I. Simionescu” Postdoctoral Fellowship Programme (ID POSDRU/89/1.5/S/55216), Sectorial Operational Programme Human Resources Development 2007-2013. “Petru Poni” Institute of Macromolecular Chemistry Iasi, Romania.
Name and type of organization	"Petru Poni" Institute of Macromolecular Chemistry, Iasi, 41A Grigore Ghica Voda Alley, 700487, Iasi, Romania
Period	June 2003 – June 2005

Activities carried out, title/qualification obtained
Visiting Fellow at the Canadian Government Laboratory. Award received from Natural Sciences and Engineering Research Council of Canada, Canada. Supervisor: Dr. Keith U. Ingold.
 Name and type of organization
 National Research Council Ottawa, Canada

Period
April 2002 - May 2003
 Activities carried out, title/qualification obtained
Postdoctoral Fellow. Supervisor: Prof. Gregory Thatcher and Dr. Keith Ingold
 Name and type of organization
 Queen's University Kingston, Canada

Period
November 1994 - May 2001
 Activities carried out, title/qualification obtained
 Elaboration and defense of the doctoral thesis with the title: "**Isocyanate chemistry**" (In Romanian "Chimia izocianatilor"). Supervisor Dr. Adrian A. Caraculacu. Doctor's degree granted by Order of the Minister of Education Nr. 4911 din 02.11.2001, doctorate in chemistry, series B, no. 0004294 of 19/11/2001.
 Name and type of organization
 "Petru Poni" Institute of Macromolecular Chemistry, Iasi, 41A Grigore Ghica Voda Alley, 700487, Iasi, Romania
 Technical University "Ghe. Asachi", Iasi, Romania.

Period
October 1986 - June 1991
 Activities carried out, title/qualification obtained
 Long-term courses and diploma of **Chemical Engineer**, specialty **Organic Chemistry**.
 Name and type of organization
 Technical University "Ghe. Asachi", Iasi, Romania.

SKILLS, PERSONAL COMPETENCES

Native language
 Romanian

Other languages

Self assessment

European level (*)

English

French

		Understanding		Speaking				Writing			
		Listening		Reading		Participate in the conversation		Oral speech		Written expression	
	English	C2	Experienced user	C2	Experienced user	C2	Experienced user	C2	Experienced user	C2	Experienced user
	French	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user

(*) Level of the European Framework of Reference for Languages.

SOCIAL SKILLS AND COMPETENCES

Experience in teamwork, collaboration with other organizations, mediator in conflict situations, involvement in various activities, positive attitude, ambitious, responsible in decision making.

SCIENTIFIC, TECHNICAL/ RESEARCH AND ORGANIZATIONAL

Experience in laboratory work, project/contract management and team, in motivating employees, strategic thinking, analytical, creativity, diplomacy in interpersonal relationships:

SKILLS AND SKILLS

• ACTIVITIES IN THE ACADEMIC COMMUNITY:

- Member of the **scientific council** of the Institute of Macromolecular Chemistry "Petru Poni", Iasi
- Member of the National Council for Attestation of University Degrees, Diplomas and Certificates (CNATDCU), Chemistry commission (MEC Order no. 4676 of July 7, 2020)
- Member in European Polysaccharides Network of Excellence (EPNOE), from 2006.

• SCIENTIFIC COMPETENCES AND RESEARCH DIRECTIONS:

- Chemical functionalization in environmentally friendly conditions of polysaccharides in general, cellulose in particular.
- New materials based on natural resources with electrical properties, proton separating membranes in fuel cells.
- Hydrogels for the incorporation of active principles, magnetic hydrogels.
- Photochemical degradation of polluted water.

• EXPERIENCE IN THE MANAGEMENT OF RESEARCH PROJECTS/CONTRACTS:

A. Project manager:

- "**Synthesis and characterization of urethane-ether-crown structures**", youth grant, stage 2000. Beneficiary: "National Agency for Science, Technology and Innovation" Bucharest – **S. Coşeri** (project director), E. Hitruc, A. Caraculacu.
- "**Synthesis and characterization of urethane-ether-crown structures**", youth grant, stage 2001. Beneficiary: "National Agency for Science, Technology and Innovation" Bucharest – **S. Coşeri** (project director), E. Hitruc, A. Caraculacu.
- National Sciences and Engineering Research Council of Canada (NSERC Canada), "**Mechanism study of the reaction between nitroxyl radical with cyclic and acyclic alkenes**". Beneficiary: National Research Council Ottawa, (NRC Ottawa) **Canada**, 2004-2005.
- NATO Security Through Science Programme; NATO Reintegration Grant, 2005-2007. "**Progresses in Free Radical Reactions Mechanism**", PDD(CP)-(CBP.EAP.RIG 982044)
- Co-operation of SEE science parks for the promotion of transnational market update of R&D results and technologies by SMEs, SEETechnology – SEE/D/0224/1.2/X, 2012-2014, 2012 – 2014.
- Bilateral project between "Petru Poni" Institute and Innventia AB Stockholm Sweden, "**Cellulose fibers oxidation using environmentally friendly reagents - Synthesis of various sorts of oxidized cellulose, using different reaction conditions**", 2012-2014.
- PN-III-P4-ID-PCE-2016-0349; "**Engineering the raw natural products: cellulose-based biointerface for immunoassays**"; Acronym: ERAW, 2017-2019.
- PN-III-P2-2.1-PED-2019-0169; "**Highly sensitive immunoassay device, based on natural resources**"; Acronym: HISENSE, 2020-2022.
- PN-III-P4-ID-PCE-2020-0476; "**Expanding cellulose's boundaries towards the fabrication of superior proton conductive membranes for fuel cells**"; Acronym: EXCELLFUEL, 2021-2023.

B. Member of the project team:

- Research contract no. 60/1997, Additional Act no. 1/1998 concluded with ICPE-Trafil SA Iaşi, within the Zonal Program: New materials with elaboration and unconventional uses based on the zonal innovative potential, of national level, with world competitive perspective, financed by the Ministry of Research and Technology, Theme C: "Absorbents Benzotriazole UV with various structures, including parabanic", contract 1/1998.
- "**Heterocyclic polymers with diazopentaatomic structures by chemical reactions on polymers**" National C-D program, "Horizon 2000".

- European Social Fund – **Postdoctoral Scholarship Program** "Cristofor I. Simionescu" POSDRU /89/1.5/S?/55216, head of Acad. B. C. Simionescu, (S. Coşeri - postdoctoral student), 2010-2013.
- Member of the implementation team in REGPOT-2010-1 „**Strengthening the Romanian research capacity in Multifunctional Polymeric Materials**” coordinator Dr. Valeria Harabagiu.
- "**Mimicking living matter mechanisms by five-dimensional chemistry approaches**", Acronym: 5D-nanoP; Cod: PN-III-P4-ID-PCCF-2016-0050, July 1, 2018 – June 30, 2022.
 - **SKILLS AND EXPERIENCE IN THE EVALUATION AND EDITING OF SCIENTIFIC MATERIALS:**
- Member of editorial boards of national/international journals:
 - Polymers
 - Materials
 - Polysaccharides
 - Archives of Industrial Biotechnology
 - JSM Spectroscopy and Chromatography
- Editor of special issues in journals **Polymers** și **Materials**
 - **INVITED PROFESSORSHIP:**
- Laboratory for Characterization and Processing of Polymers Faculty for Mechanical Engineering, **University of Maribor**, Slovenia, **March 2015**, teaching course: Cellulose – sustainable material.
- Faculty of Mathematics and Natural Science, **Jan Dlugosz University in Czestochowa**, Institute of Chemistry, Environment Protection and Biotechnology, Poland, **April – May, 2017**, Courses: i) Chemistry and applications of biodegradable polymers and ii) Nanomaterials based on natural resources: a key strategy for a future sustainable development.
- Faculty of Mathematics and Natural Science, **Jan Dlugosz University in Czestochowa**, Institute of Chemistry, Environment Protection and Biotechnology, Poland, **April – May, 2020**, Online courses: i) Cellulose chemistry and derivatization and ii) Nanomaterials based on cellulosic substrates – preparation and applications.
 - **PROJECT EVALUATOR:**
- **PNCDI III, UEFISCDI**, Program 2: Increasing the competitiveness of the Romanian economy through research, development and innovation; Subprogramme 2.1. Competitiveness through research, development and innovation - 2016.
- Expert Evaluator for Executive government agency of **National Science Centre Poland** (Narodowe Centrum Nauki - NCN)
 - **AWARDS:**
- "**Costin D. Nenitescu**" prize of the Romanian Academy – 2015.

COMPUTER SKILLS AND COMPETENCES

Windows 9x/2000/XP/NT/Vista/7, Microsoft Office, Lotus Notes, Corel Draw, Design Expert V6, EndNote X4, OriginLab 7.5, SPSS.

DRIVING LICENSE

B category.

MORE INFORMATION

- **SCIENTIFIC PORTFOLIO:**
- a. Publications, conferences, communications, patents:**
- **1** book
- **3** book chapters
- published works: **71**
- conferences and keynotes: **12**

- public presentations at national and international scientific events (oral presentations and posters): **75**
- PATENTS: **2**
- b.** Over 1200 citations of papers published in ISI journals (over 950 without self-citations).
Hirsch index **H = 20** in **Web of Science**, **H = 21** in **Scopus**.

ANNEXES | **List of scientific publications.**

April 2021

Dr. Sergiu COȘERI