



Curriculum vitae Europass



Personal Information

Name/Surname **SIMONESCU CLAUDIA MARIA**
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Nationality Romanian
Date of birth
Sex female

**Work place/
Occupational field** **Department of Analytical Chemistry and Environmental Engineering - Faculty of Chemical Engineering and Biotechnologies – National University of Science and Technology Politehnica Bucharest/Education and Research (2310)**

Professional experience

Period April 2022 -present
Occupation or position held **Professor PhD.**
Main activities and responsibilities Teaching and research activity at the Department of Analytical Chemistry and Environmental Engineering (teaching and training courses in the subjects: Ecology and Sustainable Development (II year CASM), Biological degradation of pollutants (first year master IM), Green Sustainable Chemistry (first year master PC.CCP) Consumer protection in Romania (second year master PC.CCP), mentoring students as a tutor, guiding students in developing their bachelor graduation paper, master studies graduation paper)
Name and address of employer University Politehnica of Bucharest, Faculty of Chemical Engineering and Biotechnologies, Splaiul Independentei Str., 313 District 6, Bucharest
Type of activities or activity sector Education and research

Period 23.02.2015- April 2022
Occupation or position held **Professor PhD.**

Main activities and responsibilities	Teaching and research activity at the Department of Analytical Chemistry and Environmental Engineering (teaching and training courses in the subjects: Ecology and Sustainable Development (II year CASM), Biological degradation of pollutants (first year master IM), Green Sustainable Chemistry (first year master PC.CCP) Consumer protection in Romania (second year master PC.CCP), mentoring students as a tutor, guiding students in developing their bachelor graduation paper, master studies graduation paper)
Name and address of employer	University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science, Splaiul Independentei Str., 313 District 6, Bucharest
Type of activities or activity sector	Education and research
Main activities and responsibilities	Teaching and research at the Department of Technology of Inorganic and Environmental Protection (teaching courses on Biological treatment of wastewater, Ecology and Sustainable Development, Crystallography and Mineralogy, tutoring students in developing their bachelor graduation paper, master studies graduation paper)
Name and address of employer	University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science, Splaiul Independentei Str., 313 District 6, Bucharest
Type of activities or activity sector	Education and research
Period	08.10.1997-30.09.2004
Occupation or position held	Assistant Professor PhD Student
Main activities and responsibilities	Teaching and research (lectures and practical applications in the subjects Ecology, Environment and dynamics of pollutants, precipitation, Ecology, tutoring students in developing their their bachelor graduation paper, master studies graduation paper)
Name and address of employer	University Politehnica of Bucharest, Faculty of Industrial Chemistry, Splaiul Independentei Str., 313 District 6, Bucharest
Type of activities or activity sector	Education and research
Period	01.10.1995-30.06.1997
Occupation or position held	Associate teacher
Main activities and responsibilities	Preparing, research and mentoring of laboratory works for Complexes Compounds Course
Name and address of employer	Inorganic Chemistry Department – Faculty of Chemistry – University of Bucharest, Bulevardul Regina Elisabeta 4-12, Bucharest 030018
Type of activities or activity sector	Education and research
Period	03.07.1995-07.10.1997
Occupation or position held	Chemist
Main activities and responsibilities	Laboratory work in the laboratory of technical quality control
Name and address of employer	SC CARMESIN SA Bucharest, șoseaua Pantelimon no. 1, District 2
Type of activities or activity sector	Laboratory activity (laboratory analysis)

Education and Training

Period	25-28 February 2019
Qualification/Graduation Diploma	Graduation diploma of courses entitled "Auditors of the Quality Management System in an accredited/ pending accreditation laboratory according to SR EN ISO / IEC 17025: 2018 and SR EN ISO 19011: 2018"
Main subjects studied /occupational skills covered	Competencies required for an auditor in the field of Quality Management System in an accredited laboratory/pending accreditation process according to SR EN ISO / IC 17025: 2018 and SR EN ISO standards; General requirements for the competence of testing, sampling and calibration laboratories Coordination of an audit program; Applying audit procedures, methods and criteria; Planning and conducting the audit; Drafting audit reports; Reporting the results of an audit program, analyzing and improvements

Name and type of education institution/training provider	Fia Test, Bucharest, Romania
Level in national or international classification	
Period	19-20 June 2018
Qualification/Graduation Diploma	Certificate for participation of the training session on "Basic training in the field of drugs"
Main subjects studied /occupational skills covered	Basic issues in the field of drugs
Name and type of education institution/training provider	National Anti-drug Agency – The National Centre for Training and Documentation in the Drug field
Level in national or international classification	
Period	03-06 March 2014
Qualification/Graduation Diploma	Graduation diploma of courses entitled "Solving Contaminant Problems for a Sustainable Environment through Application of Environmental Engineering and Science Concepts"
Main subjects studied /occupational skills covered	Protection and environmental engineering, environmental pollution
Name and type of education institution/training provider	Michigan State University, the Institute of International Health and the Fogarty International Center Program on Environmental Health, Bucharest, Romania
Level in national or international classification	
Period	25-27 June 2012
Qualification/Graduation Diploma	Graduation diploma of internal auditor courses
Main subjects studied /occupational skills covered	Quality Management Systems according ISO 9001/2008; ARACIS External Methodology for Quality Assessment; Audit Management Program – ISO 19011; Internal Audit for University "Politehnica" Bucharest
Name and type of education institution/training provider	Department of Quality Management from University "Politehnica" Bucharest
Level in national or international classification	COR 241105
Period	01 January – 31 December 2011
Qualification/Graduation Diploma	Certificate of graduation of postdoctoral studies
Main subjects studied /occupational skills covered	Industrial Biotechnology; Microbial Biomass for Heavy Metals Removal from Wastewater
Name and type of education institution/training provider	POSDRU/89/1.5/S/52432 of 1.04.2010 Project - Institutional organization of a postdoctoral school of national interest "Applied biotechnology with impact in the Romanian economy" beneficiary: The University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca – University "Politehnica" Bucharest
Level in national or international classification	
Period	3 – 4 October 2011
Qualification/Graduation Diploma	Graduation diploma of courses of Science Shop Autumn School
Main subjects studied /occupational skills covered	Organization and activity of Science Shop
Name and type of education institution/training provider	Dublin City University – courses organized by Living Knowledge Network with the support of project European FP7/2007-2013 PERARES nr. 244264
Level in national or international classification	
Period	1 – 30 June 2011
Qualification/Graduation Diploma	Certificate of participation in postdoctoral research training

Main subjects studied /occupational skills covered	Industrial biotechnology research applications in removing heavy metal ions from wastewater
Name and type of education institution/training provider	University of Chemical Technology and Metallurgy from Sofia, Bulgaria
Level in national or international classification	
Period	12 – 22 April 2010
Qualification/Graduation Diploma	Graduation certificate of specialization program for 40 hours for the TRAINER occupation
Main subjects studied /occupational skills covered	The legal framework on adult training, process training and training methods, and evaluation stages of a process of formation, communication in the training
Name and type of education institution/training provider	Association for Adult Vocational Training – AFPA, Bucharest
Level in national or international classification	COR 241205
Period	22 – 26 February 2010
Qualification/Graduation Diploma	Graduation certificate of specialization program for 40 hours for the PROJECT MANAGER occupation
Main subjects studied /occupational skills covered	Purpose of the project, establishing the requirements of integrated project management, project planning activities and milestones, cost management and operational resources used for project realization project procurement, risk management, project team management, project communication management
Name and type of education institution/training provider	Association for Adult Vocational Training – AFPA, Bucharest
Level in national or international classification	COR 241919
Period	9 – 12 March 2010
Qualification/Graduation Diploma	Certificate of Completion of International Training Workshop on Fundamentals of Environmental Chemistry and Engineering – Transformation and Fate of Contaminants in Natural and Engineered Systems
Main subjects studied /occupational skills covered	Lectures, interactive sessions covering small groups, case studies, questionnaires and evaluations of progress on the role and behavior of contaminants on Anthropogenic and Natural Environment, contaminants transforming
Name and type of education institution/training provider	Michigan State University, Institute of International Health and Fogarty International Center Program on Environmental Health – Training and Research in Environmental Health in the Balkans
Level in national or international classification	
Period	March 2009
Qualification/Graduation Diploma	Certificate of participation in laboratory Seminar I
Main subjects studied /occupational skills covered	Issues on accreditation of laboratories, crioptic detection in liquid chromatography, chromatography and supercritical fluid extraction, using circular dichroism spectroscopy in the study of molecular interactions, purification by flash chromatography
Name and type of education institution/training provider	ABL&E-JASCO Romania
Level in national or international classification	
Period	20 – 30 September 2006
Qualification/Graduation Diploma	Graduation Certificate of postgraduated studies „Environmental Pollution Monitoring. Pollutants, Analysis Methods, Legislation, Quality Assurance and Management” organized with the support of LEONARDO da VINCI of European Union Training Program in the pilot project no. RO/02/B/F/PP – 141004

Main subjects studied /occupational skills covered	Types of environmental pollutants, analysis methods, environmental legislation, quality assurance and management, monitoring
Name and type of education institution/training provider	Courses organized with the support of LEONARDO da VINCI of European Union Training Program in the pilot project no. RO/02/B/F/PP – 141004 by the University of Bucharest – Faculty of Chemistry – Research Center of Automatic Analysis Methods
Level in national or international classification	
Period	19-20 September 2005
Qualification/Graduation Diploma	Certificate of participation in theoretical and practical teaching courses in electron microscopy
Main subjects studied /occupational skills covered	Analysis techniques for solid materials by electron microscopy
Name and type of education institution/training provider	National Institute of Materials Physics
Level in national or international classification	
Period	7-10 March 2005
Qualification/Graduation Diploma	Certificate of Completion of Training Module Contaminants in the Environment
Main subjects studied /occupational skills covered	Lectures, interactive sessions in small groups, case studies, the need of evaluation, course evaluation
Name and type of education institution/training provider	Michigan State University, Institute of International Health and Fogarty International Center Program on Environmental Health – Training and Research in Environmental Health in the Balkans
Level in national or international classification	
Period	1 October 1996 – September 2005
Qualification/Graduation Diploma	PhD in Chemistry
Main subjects studied /occupational skills covered	Inorganic chemistry, obtaining and characterization of copper sulfide
Name and type of education institution/training provider	Romanian Academy - Institute of Physical Chemistry „IG Murgulescu”/University of Bucharest, Faculty of Chemistry
Level in national or international classification	
Period	1 October 1994 - 30 June 1995
Qualification/Graduation Diploma	Postgraduate Diploma
Main subjects studied /occupational skills covered	Specialization of multifunctional natural and synthetic organic compounds
Name and type of education institution/training provider	University of Bucharest, Faculty of Chemistry - Department of Inorganic Chemistry
Level in national or international classification	
Period	1 October 1989- 30 iunie 1994
Qualification/Graduation Diploma	Bachelor of Science, Chemistry
Main subjects studied /occupational skills covered	Inorganic Chemistry, Complexes Chemistry
Name and type of education institution/training provider	University of Bucharest, Faculty of Chemistry - Department of Inorganic Chemistry
Level in national or international classification	

Personal skills and competences

Mother tongue(s) **Mention the mother tongue(s)** (if necessary, specify a second mother tongue, see the instructions)

Other language(s)

Self-assessment

European level (*)

English language

French language

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production		Written expression	
C1	Proficient user	C1	Proficient user	B1	Independent user	B1	Independent user	B1	Independent user
B1	Independent user	B1	Independent user	A2	Basic user	A2	Basic user	A1	Basic user

(*)Common European Framework of Reference for Languages

Social skills and competences

- team spirit: teamwork experience gained through my experience on the faculty when I participated in the project for undergraduate and master students, in writing the various research papers and following group activities in developing research contracts, curricula;
- ability to adapt to multicultural environments;
- good communication skills gained through the experience of having lectures for students and teachers;
- open and willing mind for training and acquire new knowledge;
- ability to communicate within the group and organization.

Organisational / managerial skills

- trainer for trainers – competence gained through participation at teachers training but also as **Trainer** at Teacher Training Centre of Bucharest – teaching course “ General concepts of pollution and environmental protection ”- course accredited by the Ministry of Education within the program of continuous training for teachers in secondary education, engineers, foremen, under the training of teachers of physics, chemistry, biology, geography, engineers, teachers of technological education, schoolmasters organized by the Teacher Training Centre of Bucharest (300 teachers participating in training);
- organizational skills gained through participation as organizing member for international conferences (The Romanian International Conference on Chemistry and Chemical Engineering (RICCCE) RICCCE 18, September 2013, Sinaia, Romania and as member of executive committee of “The Romanian International Conference on Chemistry and Chemical Engineering (RICCCE)”, RICCCE 19, September 2015
- good experience of project and team management gained through my experience as leadership for research project with five partners (research institutes, small and medium enterprises) and also ability to work in a team and be part of the large collective research projects - skills gained through involving in different **national and international research projects and POSDRU projects obtained through competition**
- 1 as project manager;
- 1 as UPB coordinator;
- 7 as research members in national research projects gained by competition;
- 2 as research members in international research projects gained by competition;
- short-term expert for 2 POSDRU projects
- junior expert for 1 PHARE project
- participation in research projects with third parties**
- 3 as research member team

Technical skills and competences

Experienced researcher in the field of inorganic chemistry, materials engineering and environmental protection; skills developed in research projects, articles and books recognized in the field

Published papers:

- 10 didactic books
- 1 book chapter – edited abroad
- 2 laboratory works
- 85 ISI articles (ISI papers + proceedings ISI) (Web of Science)/51 as first author/correspondence author
- 8 articles in scientific journals
- 21 articles published in proceedings of international scientific conferences/symposiums/congress
- 3 articles published in proceedings of national scientific conferences

Digital competence	<ul style="list-style-type: none"> - a good knowledge of Microsoft Office™ (Word™, Excel™ și PowerPoint™); - basic knowledge of computer graphics applications (Adobe, Paint).
Artistic skills and competences	Hobby: painting and reading
Other skills and competences	<p>Membership in professional organizations: Romania Society of Chemistry, Founding member of the Center for Information and Consulting Environmental Protection InterMEDIU Bucharest Member of the EuCheMS (European Association for Chemical and Molecular Sciences) from 2007 Reviewer of MATRIX Rom Bucharest Publishing House Member of the Editorial Board of the International Journal of Materials and Chemistry; Member of the Editorial Board of the Journal of Chemistry and Chemical Engineering; Member of the Editorial Board of the Journal of Inorganic & Organometallic Polymers & Materials Reviewer of Scientific & Academic Publishing House; Member of the Editorial Board of the Algerian Journal of Environmental Science and Technology from 2016 Member of the Editorial Board of the World Journal of Biotechnology from 2016 Member of the Editorial Board of the International Journal of New Chemistry, from 2019 (http://www.ijnc.ir/journal/editorial.board) Member of the Editorial Board of the Journal of Chemistry Letters, from 2020 (http://www.jchemlett.com/journal/editorial.board)</p> <ul style="list-style-type: none"> - good mentoring capacity gained as tutor for doctoral students (2013-present I was tutor for 10 doctoral students) and as member of competition committee for teaching positions in schools and high schools From 2009 till present I coordinated - 10 degree works of teachers from high schools (I degree) completed and presented to the public; - I participated in the period 2009-2014 as a member of committees for second degree of teachers - participation in activities for the academic community as member of the committee of admission and assessment work of the bachelor's and master graduation: - UPB admissions committee, - Faculty of Applied Chemistry and Materials Science – UPB admissions committee; - admissions committee for master programs: Environmental Engineering, Environment Quality Control and Consumer Protection. Products Quality Control; - graduation and dissertation committee for Environmental Engineering, - the evaluation committee for the master dissertation Consumer Protection. Products Quality Control, - Evaluation Committee for Environmental Engineering undergraduate works - Sapientia University-Miercurea Ciuc, - evaluation committee of scientific works of students in the Student Scientific Session, - tutor for year III and IV students from Environmental Engineering Program (2002 - present); - good command of quality control gained as member of Evaluation and Quality Assurance Committee of Faculty of Applied Chemistry and Materials Science (secretary for 2012-2015; committee coordinator for 2015-2016) Member of Teachers Council of Faculty of Applied Chemistry and Materials Science (2012-2016) Member of jury at the last editions (from 2010 till present) of the contest „Manifestările Științei și Tehnicii Școlare – Florin Vasilescu” organized by Ministry of Education, Research, Youth and Sport, School Inspectorate of Calarasi County, Teachers House of, IDD CREDIS Calarasi Regional Center of the University of Bucharest, the GIIF Foundation
Driving licence	driving license B category obtained in 1994

Additional information

Scientific Reviewer of international journals: International Journal of Materials and Chemistry, Journal of Chemistry and Chemical Engineering, Journal of Inorganic & Organometallic Polymers & Materials, Transnational Journal of Agriculture and Soil Sciences(TJASS), The Chemical Industry and Chemical Engineering Quarterly (Chem Ind. Chem. Eng. Q.), International Biodeterioration & Biodegradation, Industrial & Engineering Chemistry Research, Advanced Research Journal of Biochemistry, Advanced Journal of Environmental Science and Technology, International Journal of Applied Microbiology and Biotechnology, International Journal of Microbiology Research and Reviews, Herald Journals of Biochemistry and Bioinformatics, Agricultural Research Journal, Nanoscience and Nanotechnology, Sensors Journal, Polish Journal of Environmental Studies, Bull UPB, Peak Journal of Environmental Studies, Ceramics International, MethodX, Desalination and Water Treatment, International Journal of Environmental Analytical Chemistry, Annals of Microbiology, European Journal of Biological Research, Net Journal of Agricultural Science, Reactive and Functional Polymers, Revista de Chimie, Sustainability, South African Journal of Chemical Engineering, Microbiology Research International, Journal of Cleaner Production, Water, Environmental Science & Technology, Journal of Dispersion Science and Technology, Separation Science and Technology, Journal of King Saud University – Science, RSC Advances, Polymers, Journal of Environmental Management, Journal of Molecular Liquids, Environmental Research, Applied Surface Science, Revista de Materiale Plastice, Ecotoxicology and Environmental Safety, Sustainable Chemistry and Pharmacy, Materials Chemistry and Physics, Industrial & Engineering Chemistry Research, Energies, ACS Applied Energy Materials, Atmospheric Pollution Research, Organic Electronics, International Journal of Environmental Research and Public Health, Environmental Science: Nano, Journal of Macromolecular Science, Part A: Pure and Applied Chemistry, Journal of Analytical Methods in Chemistry, ACS Applied Nano Materials, International Journal of Biological Macromolecules, Journal of Hazardous Materials, Environmental Science and Pollution Research, Environmental Technology, Clean - Soil, Air, Water, ACS Applied Materials & Interfaces, World Journal of Applied Chemistry, Applied Sciences, Chemosphere, Inorganic and Nano-Metal Chemistry, Nanomaterials, Colloids and Surfaces A: Physicochemical and Engineering Aspects, SN Applied Sciences, Revue Roumaine de Chimie, Microchemical Journal, Arabian Journal of Chemistry, ACS Omega, Separation Science and Technology, Chemical Engineering Communications, Materials, Advances in Polymer Technology, International Journal of Biomaterials, Scientific Reports, International Journal of Phytoremediation, Molecules, Inorganic and Nano-Metal Chemistry, Journal of Saudi Chemical Society, Journal of Chemical & Engineering Data, Environmental Technology, Materials Chemistry and Physics, Iranian Journal of Chemistry and Chemical Engineering, Frontiers of Environmental Science and Engineering, Journal of Materials Research and Technology, Journal of Chemistry, Asian Journal of Agricultural Extension, Economics & Sociology, Adsorption Science & Technology, Vietnam Journal of Chemistry, Metals, Processes, Environmental Challenges, Environmental Technology & Innovation, Journal of Marine Science and Engineering, Materials Research-Ibero-American Journal of Materials, IET Nanobiotechnology, Particulate Science and Technology, Main Group Metal Chemistry, Environmental Quality Management, Journal of Scientific Research in Science, Geochemistry: Exploration, Environment, Analysis, Journal of Applied Ceramic Technology, Asia-Pacific Journal of Science and Technology, Journal of Applied Microbiology, ChemEngineering, Advances in Materials Science and Technology, International Journal of Applied Ceramic Technology, Preparative Biochemistry and Biotechnology, Fullerenes, Nanotubes and Carbon Nanostructures, Chemistry and Ecology, Green Processing and Synthesis, Journal of Molecular Structure, Environmental Pollutants and Bioavailability, Toxin Reviews, Bioinorganic Chemistry and Applications, Spectroscopy Letters, Advances in Condensed Matter Physics, Environmental Science: Water Research & Technology, Journal of Metals, Materials and Minerals, Journal of Nanomaterials, Nanotechnology and Nanomedicine, Environmental Research, Bioinorganic Chemistry and Applications, Applied Physics A, Journal of Macromolecular Science, Part A: Pure and Applied Chemistry, ACS Applied Polymer Materials, Reaction Chemistry & Engineering, Molecular Systems Design & Engineering, Karbala International Journal of Modern Science, Zeitschrift für Naturforschung A, Journal of Taibah University for Science, Asia-Pacific Journal of Chemical Engineering, Surface and Interface Analysis, Dalton Transactions, Solvent Extraction and Ion Exchange, ChemistrySelect, Materials Advances, Urban Water Journal, New Journal of Chemistry, Wood Material Science and Engineering, ECS Journal of Solid State Science and Technology, Physica Status Solidi A: Applications and Materials Science, Journal of Water Process Engineering, Food Packaging and Shelf Life, Environmental Science Water Research & Technology, International Journal of Chemical Kinetics, Journal of Cluster Science, ACS Applied Polymer Materials, Iranian Polymer Journal, ACS Applied Engineering Materials, Functional Composites and Structures, Biotechnology and Genetic Engineering Reviews, Polymer Chemistry

- **Editor of the book** *Dendrimers - Fundamentals and Applications* 2018, IntechOpen Publishing House, online ISBN: 978-1-78923-059-8; print ISBN: 978-1-78923-058-1;
<http://dx.doi.org/10.5772/intechopen.68738>

Anexes

Editor of the book Nanocrystals and Nanostructures 2018, Editura IntechOpen, online ISBN: 978-1-78923-665-1; print ISBN: 978-1-78923-664-4; DOI: 10.5772/intechopen.71096,

<https://www.intechopen.com/books/nanocrystals-and-nanostructures>

The total number of citations: 763 from which 632 (without self-citations – from Web of Science and Scopus)

Hirsch index 14 (Web of Science), 15 (Scopus), 14 (Google Scholar)

Articles awarded in 2007 and 2008 by CNCIS in PNCDI2 - HUMAN RESOURCES - Premiere articles competition - in 2016-2 articles; in 2017-3 articles; in 2018 - 1 article, in 2020 – 2 articles and 1 patent, in 2021 – 1 article

First prize for scientific research in chemistry for the paper presented at young chemistry researchers session of International Conference "Several Aspects of Biology, Chemistry, Informatics, Mathematics & Physics" organized by the Faculty of Sciences - University of Oradea Baile Felix November 11-13 2005

UEFISCDI Reviewer– 15 projects reviewed for the Research Projects to stimulate the establishment of young independent research teams - TE type 2014 competition; 4 projects reviewed for the Research Projects to stimulate the establishment of young independent research teams - TE type 2016 competition; 7 projects for Postdoctoral research - type PD 2016;

ANCS Reviewer – 9 projects + 1 Nucleu Programme (december 2022)

Reviewer for Science and Technological Development Council of Chile Education Ministry (CONICYT) - FONDECYT Regular 2017

Reviewer for Czech Science Foundation (2019)

List of papers

30.10.2023

Prof. PhD. Claudia Maria Simonescu