

# Curriculum Vitae

## Personal information

First name(s) / Surname(s) **Corina BRADU**

Address(es) University of Bucharest, Faculty of Biology, Department of Systems Ecology and Sustainability  
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Nationality Romanian

Date of birth 31.08.1968

Gender F

## Occupational field **Chemistry: Environmental Chemistry**

### Work experience

2018-present	2005-2018	1995-2005	1992-1995
Associated professor / researcher	Lecturer / researcher	Assistant / researcher	Assistant
University of Bucharest, Faculty of Biology Research Center for Environmental Protection and Waste Management	University of Bucharest, Faculty of Chemistry / Faculty of Biology Research Center for Environmental Protection and Waste Management	University of Bucharest, Faculty of Chemistry Research Center for Environmental Protection and Waste Management	University of Bucharest, Faculty of Chemistry

### **Main activities and responsibilities:**

(i) *Teaching*: bachelor and master courses; coordinator of M.Sc. research thesis; development of experiments for instructional laboratory; (ii) *Research in*: water and wastewater treatment by advanced oxidation processes, adsorption and liquid phase catalytic reduction processes; Materials synthesis (catalysts, sorbents etc.)

## Education and training

Dates	2022	2006	1992
Title of qualification awarded	Habilitation	PhD degree	Licence in chemistry and physics
Principal subjects/occupational skills covered	<i>Non-conventional water treatment processes for sustainable use of water resources</i>	Catalysts preparation; Removal of organic pollutant from water by advanced oxidation processes	Dissertation thesis in organic chemistry
Name and type of organisation providing education and training	University of Bucharest, Faculty of Biology, Romania	University of Bucharest, Faculty of Chemistry, Romania	University of Bucharest, Faculty of Chemistry, Romania

## Personal skills and competences

Mother tongue(s) Romanian

Other language(s) French C2; English C1

Organisational skills and competences	<ul style="list-style-type: none"> <li>- Project management : 2 national projects - as project manager; 5 national projects - partner responsible</li> <li>- Manager of the Research Center for Environmental Protection and Waste Management (PROTMED), University of Bucharest (2014-present)</li> <li>- Member of several Exam boards (admission and graduation) for Bachelor and Master Programmes (over 50 participations).</li> <li>- Member of the doctoral committees for PhD students of Doctoral Schools from University of Bucharest; University <i>Politehnica</i> of Bucharest, and University Franche-Comté, Besançon (2010-present)</li> <li>- Member of the Faculty of Chemistry Council (2007-2014)</li> <li>- Member of the Commission of Quality Management of Faculty of Biology (2022-present).</li> <li>- Member of the organizing committee of: (i) Symposiums for young researchers from the Faculties of Geography, Biology and Chemistry „<i>Integrated Environmental Research and Sustainable Development</i>” under the auspices of the Romanian Academy, the National Institute of Geography and the Research Centre PROTMED; (ii) Two summer schools: „<i>Integrated environmental monitoring</i>” April 15-21, 2002, Sinaia Research Station of the University of Bucharest (funded through the project D196 - CNCSIS) and „<i>Environmental integrated monitoring. Pollution prevention and control</i>”, July 2007, Buzău (financed through a CEEEX M3 project). (iii) A bilateral United State (Penn State University) – Romania (University of Bucharest) educational program for undergraduate students, <i>Connecting Humans and Nature through Conservation Experiences</i> – CHANCE (2021 – present).</li> <li>- Member in the <i>Reviewing committee</i> of the <i>International Conference on Challenges and Solutions related to Xenobiotics and Antimicrobial Resistance in the Framework of Urban WasteWater Reuse: Towards a Blue Circle Society</i> – XENOWAC 2018, Cipru</li> <li>- Member in the management committee of 2 COST actions i) ES1403 – NEREUS New and emerging challenges and opportunities in wastewater reuse 2017-2018; (ii) CA19110 Plasma applications for smart and sustainable agriculture 2020-2021.</li> <li>- Guest Editor for Catalysts MDPI (2019) and for Molecules MDPI (2021); Topic Editor at Catalysts MDPI (2020-present)</li> </ul>
Technical skills and competences	Laboratory experience includes: development of water treatment processes, catalyst preparation techniques; catalytic processes; analytical techniques (e.g.: Gas chromatography, Liquid chromatography; UV-Vis and IR spectroscopy, Atomic absorption spectrometry etc)
Projects	2 national project – as project manager (PNII-PCCA project “Integrated process for the removal of nitrates and organochlorine pesticides from natural water contaminated as a result of agricultural practices” 2012-2015; PNRR-III-C9-I5 project ” Integrated research and sustainable solutions to protect and restore Lower Danube Basin and coastal Black Sea ecosystems” ); 5 national projects - as principal investigator (i.e. PNII-PCCA project “Biosensors based on enzymes immobilized on polymers, for the monitoring of nitrates and nitrites in drinking waters” 2008-2011); 5 international projects – as team member (i.e. BiodivERsA project “Understanding cross-habitat linkages between blue and green infrastructure to optimize management of biodiversity, ecosystem services and multiple human uses” 2016-2019); over 45 national projects – as team member
Publications	58 articles (55 ISI); 8 book chapters; 4 patents, 2 Special Issues coordinated
Scientific Communications	35 oral presentations; 51 poster presentations; 11 articles in proceedings (3 ISI).
Bibliometric indicators	over 1400 citations; h-index: 21 ( <i>Web of Science</i> and <i>Scopus</i> )
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