

PERSONAL INFORMATION



George-Octavian BUICA

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Sex Male | Date of birth 24/10/1981 | Nationality Romanian

WORK EXPERIENCE

September 2017 -present

Associate Professor

University POLITEHNICA of Bucharest
 Faculty of Applied Chemistry and Materials Science
 Department of General Chemistry
<http://www.upb.ro/en/>
 313 Splaiul Independentei, 060042, Bucharest, ROMANIA
 Tel./Fax: + 4021-402 94 65
 E-mail: relatii publice@upb.ro

▪ **Teaching and research activities**

- Course discipline for undergraduate Chemistry at the Faculty of Transports
- Develop own teaching materials, namely printed and the electronic support
- Dissertation project coordination
- Scientific research activities
- Develop project proposals funded by national or international programs

October 2013 -present

Lecturer

University POLITEHNICA of Bucharest
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▪ **Teaching and research activities**

- Course discipline for undergraduate Chemistry at the Faculty of Transports
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- Dissertation project coordination
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2011-2013

Assistant researcher

University POLITEHNICA of Bucharest
 Faculty of Applied Chemistry and Materials Science
 Department of Inorganic Chemistry, Physical Chemistry and Electrochemistry
<http://www.upb.ro/en/>
 313 Splaiul Independentei, 060042, Bucharest, ROMANIA
 Tel./Fax: + 4021-402 94 65
 E-mail: relatii publice@upb.ro

Research activities

Main activities and responsibilities: Scientific research [electrochemical characterization of complexing monomers for metal ions detection (Cyclic Voltammetry, Differential Pulse Voltammetry Rotating Disk Electrode, Controlled potential electrolysis) optical spectroscopy (IR, UV-VIS), study chemical sensors and biosensors, determination of metal ions in real water samples. I have co-managed with Prof. Dr. Eleonora-Mihaela UNGUREANU the development of Organic Electrochemistry Laboratory at University "Politehnica" of Bucharest which is used for didactic and research purposes as well as for researchers and students who are working on their diploma, master or doctoral studies

October 2011-March 2012;
October 2012- March 2013

Supply of teaching activities under "paid by the hour"

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Teaching activities

Didactical activities (courses/practical laboratories and scientific research)

March 2010 - March 2013

Post-doctoral researcher in the project: "Postdoctoral Program for Advanced Research in the field of nanomaterials" European Social Fund POSDRU/89/1.5/S/54785

Petroleum-Gas University of Ploiești

39 Blvd. București, 100608, Ploiești, Romania

Research activities

Main activities and responsibilities: Scientific research on obtaining nanostructured polymeric films for metal ions electroanalysis [main aspects: synthesis and characterization of: complexing monomers, chemically modified electrodes (CME) and electrochemical detection of heavy metal ions using CME]

EDUCATION AND TRAINING

2005-2009

PhD. Degree in Engineering Sciences, Chemical Engineering

University "Politehnica" of Bucharest , Bucharest, Romania

- PhD thesis title: Synthesis and characterization of molecular receptors for the analysis of mineral species
- advanced studies on modified electrodes for metal ions electroanalysis being at the interface of electrochemistry, organic chemistry, chemistry physical chemistry and analytical chemistry

2005-2007

Master of Science Diploma in Thermodynamics and Applied Electrochemistry

University "Politehnica" of Bucharest , Bucharest, Romania

Thermodynamics and Applied Electrochemistry

2000-2005

Engineer Diploma

University "Politehnica" of Bucharest , Bucharest, Romania

organic chemistry, dyes, chemical engineering , electrochemistry

PERSONAL SKILLS

Mother tongue
Other language(s)

Romanian

UNDERSTANDING

SPEAKING

WRITING

Listening

Reading

Spoken interaction

Spoken production

English

C2

C2

C2

C2

C2

French

C1

C2

C1

C1

C1

- Digital competence
- good command of office suite (word processor, spread sheet, presentation software)
 - good command of AUTOLAB potentiostat software
 - good command of Orgin, ZView, Chemwin software
- Driving licence B category

ADDITIONAL INFORMATION

- *Membership of Professional Bodies:* member of: International Society of Electrochemistry; Romanian Society of Chemistry; Romanian Society of Electrochemistry
- *Reviewer for:* -Surface and Interface Analysis (Wiley); -Nanoscale Research Letters (Springer); -Scientific Bulletin of the University "Politehnica" of Bucharest (Politehnica Press)
- *Involve in the organisation of the:* International Workshop: Nouveaux Matériaux pour la Reconnaissance Electrochimique des Minéraux et des Espèces Biologiques «NOMARES» Bucharest, Romania, editions 2010, 2012, 2014 and 2016; Third Regional Symposium on Electrochemistry: South-Est Europe (RSE-SEE), 2012 Bucharest, Romania.
- A research fellowship MIRA Région Rhône-Alpes, France in the Laboratory of Organic Electrochemistry and Redox Photochemistry (LEOPR) (in present Department of Molecular Chemistry), University Grenoble Alpes, Grenoble, France under the guidance of Prof. Dr.Ing. Eric Saint-Aman (01/03/2007-01/10/2007)
- Graduation Certificate of Training Department Teachers, Level I; University POLITEHNICA of Bucharest, certificate no. 340 from 17.03.2006
- Graduation Certificate of Training Department Teachers, Level II; University POLITEHNICA of Bucharest, certificate no. 0155 from 26.06.2015