

## PERSONAL INFORMATION

## Simona Andreia POPESCU



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Sex Female | Date of birth 27/04/1978 | Nationality Romanian

## POSITION

Associate Professor, Department of General Chemistry, Faculty of Applied Chemistry and Materials Science, Politehnica University of Bucharest

## WORK EXPERIENCE

2016-present

**Associate Professor**

Department of General Chemistry, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest

Business or sector: Teaching

2009-2016

**Lecturer**

Department of General Chemistry, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest

Business or sector: Teaching

2005-2009

**Teaching assistant**

Department of General Chemistry, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest

Business or sector: Teaching

2002 -2005

**Junior Teaching Assistant**

Department of General Chemistry, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest

Business or sector: Teaching

## EDUCATION AND TRAINING

2010 – 2013

**Postdoctoral fellowship in Advanced research for nanomaterials postdoctoral program POSDRU/89/1.5/S/54785**

Elaboration and characterization of new hybrid nanostructural coating with nanoparticles added using EC-SPR (Electrochemical Surface Plasmon Resonance) technique, University POLITEHNICA of Bucharest

2004 - 2008

**Ph.D. in Chemistry – Materials Science**

cotutela between: University POLITEHNICA of Bucharest and Institut National Polytechnique de Toulouse (France) Thesis Title: "TiO<sub>2</sub> thin films deposited on titanium by MOCVD: microstructure and biocompatibility", Thesis Supervisors: Prof. Ioana Demetrescu (UPB) and Alain Gleizes (INPT).

March – July 2008

**Research Fellowship**

BQR 2007 «Soutien Mobilité Internationale» at Institut National Polytechnique de Toulouse, CIRIMAT-ENSIACET, France

- February – July 2007 **Marie Curie fellowship Program (MTKD-CT-2004-014059)** Intensive Program for Transfer of Knowledge (ToK) to Eastern European Reference Pole for Micro- and Nanotechnologies at Institut National Polytechnique de Toulouse, France
- September 2006 **Research Fellowship on PAI Brancusi** project «Couches minces d'oxyde d'aluminium et d'oxyde de titane pour différentes applications technologiques et biomédicales» at Institut National Polytechnique de Toulouse, France
- March – July 2006 **Fellowship supported by TD grant finances** at Institut National Polytechnique de Toulouse, France
- 2002 – 2004 **Master Degree**  
Materials, Substances and Biocompatible Systems, Department of Bioengineering and Biotechnology, University POLITEHNICA of Bucharest. Disertation: "Methods for assessing the biocompatibility of collagen treated titanium surface"
- 1997 - 2002 **Biochemical Engineer**  
Specialization: Biochemical Engineering, Faculty of Industrial Chemistry, University POLITEHNICA of Bucharest, Diploma thesis: „Unsaturated fatty acids involved in lipid peroxidation"

## PERSONAL SKILLS

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Mother tongue(s) Romanian

Other language(s) French, English

Communication skills

- Interactive person with good communication skills, serious, responsible, interested in professional collaboration
- teamwork experience gained through participating in national and international projects as a member and project director.

Digital competence

- good command of office suite (word processor, spread sheet, presentation software)

Organisational / managerial skills

- ✓ Professor supervisor in the frame of student scientific sessions communications organized by General Chemistry Department, for students from faculties of Applied Chemistry and materials Science and medical Engineering
- ✓ Project manager for 3 research project: CNCSIS- Td (2005-2007), UPB-GEX (2016-2017), PNIII-PED (2017-2018)
- ✓ Postdoctoral fellowship in Advanced research for nanomaterials postdoctoral program POSDRU/89/1.5/S/54785 – Participant as Postdoc researcher

## ACADEMIC AND RESEARCH INTERESTS

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General research areas

- Chemical and electrochemical surface modification and characterisation of metals and metals alloys for bio and non bio-applications;
- Chemical and electrochemical synthesis of thin films (TiO<sub>2</sub>, conducting polymers, hybrid polymers) dedicated to biomedical applications
- Surface characterization by electrochemical methods (cyclic voltammetry, electrochemical impedance spectroscopy, Tafel plots techniques for stability evaluation) and physico – chemical methods for thin films: surface charge measurements, surface plasmon resonance (SPR), wettability test (contact angle), IR spectra; XRD, Scratch test.

**Scientific production**

Author of 18 ISI papers, Hirsch index: 5, cumulative ISI impact factor is more than 18, the number of citations is more than 80.  
 Coordinator of two national project and one UPB – excellence grant; participant in 16 national and 2 international projects.  
 Participant at 18 international conferences (11 oral presentation)  
 4 national patents elaboration (2 already obtained patents)

**Didactic activity (Courses)**

Studies	Program Name/Faculty	Title	Activity type
Bachelor	Ordinateur et Technologie de l'Information - FILS	Chimie Generale	Course & numerical applications
	Ingénierie Electronique et Télécommunications - FILS	Chimie Generale	Course & numerical applications
	Ingénierie Mécanique - FILS	Chimie Generale	Course & numerical applications
	Industrial Engineering - IMST	General Chemistry	Course & laboratory works
Master	Faculty of Medical Engineering, Aerospace Engineering, Electronics, Telecommunications and Information Technology	General Chemistry	Laboratory works
	Substances Biocompatible Materials and Systems Bioengineering and Biotechnology Department	Nanodimensions, Bioelectrochemistry	Laboratory works

**Awards**

- 2017 - **Best oral presentation for “Electrodeposited silk coatings on titanium with entrapped active agents–International » at the Conference on Materials Sciences and Nanomaterials (ICMSN 2017),** la Barcelona, Spania 14-16 July, **2017**
- 2008 - The PhD thesis *Films minces de dioxyde de titane deposees sur titane par MOCVD: microstructure et biocompatibilite*, defended in November 2008, at Toulouse, was awarded with **Leopold Escande prize** (the PhD thesis of INP Toulouse). This prize is for the best thesis of the year and only 15% from the selected thesis are awarded with this prize.
- 10 prizes for reasearch articles in the period 2009-2017 from National University Research Council of Romania (CNCSIS)