

CURRICULUM VITAE



Prof. Univ. Dr. Eng. CRISTIAN PREDESCU

University Politehnica of Bucharest (UPB)

Faculty of Materials Science and Engineering, Ecometallurgy and Materials Processing Department

Personal information:

Date and place of birth: 17 February 1956, Bucharest

Nationality: Romanian, Marital status: married

E-mail: predescu@ecomet.pub.ro

Education and training:

Ph. D. Coordinator in Materials Science Field, 2012

Ph. D. in Materials Science, Faculty of Metallurgy, UPB, graduated 1994

Engineer degree in Materials Science, Faculty of Metallurgy, UPB, graduated 1981

Professional Experience:

Professor, Ecometallurgy and Material Processing Department, Faculty of Materials Science and Engineering, UPB, 1999 - present

Head of Center for Research and Eco-Metallurgical Expertise, UPB, 2001 – present

Manager CEEEX Program, AMCSIT, UPB, 2005 – 2010

Manager RELANSIN Program, AMCSIT, UPB, 2000 - 2005

Associate Professor, Ecometallurgy and Material Processing Department, Faculty of Materials Science and Engineering, UPB, 1995 - 1999

Lecturer, Ecometallurgy and Material Processing Department, Faculty of Materials Science and Engineering, UPB, 1990 – 1995

University assistant, Ecometallurgy and Material Processing Department, Faculty of Materials Science and Engineering, UPB, 1983 – 1990

Trainee Engineer, I.P.T Câmpina, Prahova County, 1981-2006

Research activities:

- Synthesis of advanced materials used for water decontamination;
- Characterization of Advanced Materials: Evaluating the morphology and surface topography of materials by microscopy techniques (optical, SEM, AFM); Studies on micro and nanostructured surface chemistry of materials applied as support for wastewater treatment processes;
- Metallic materials expertise;
- Evaluation of environmental factors (water, soil) and waste, including leachate, through advanced spectrometry (molecular and atomic absorption, X-ray fluorescence) and chromatography (gas and liquid) coupled with mass spectrometry;
- Optimization of technological processes in materials science field;
- Researches for energy efficiency increase of thermal equipment by reducing energy consumption of fuels and materials;
- Advanced remediation technologies.

Results (the most relevant):

33 ISI quoted articles (from which 15 with FI>1, 5 with FI>2) and **21 articles quoted in other international data bases and ISI proceedings** (*Application of Magnetite Nanoparticles as Adsorbent for Cr, Cd, Ni and Cu from Aqueous Solution*, Environmental Engineering and Management Journal, WOS:000355847800004; 3. *Nanostructures with iron oxides core applied for water treatment*, Digest Journal of Nanomaterials and Biostructures, 2014, 9(3), 2014, 987-995, *Caracterisation of a new Cu-Fe₃O₄ nanocomposite*, in Digest Journal of Nanomaterials and Biostructures, WOS:000316441200038, *Leaching tests for synthesized magnetite nanoparticles used as adsorbent for metal ions from liquid solutions*, Digest Journal of Nanomaterials and Biostructures, WOS:000300568100027); **87 citations** in national and international journals; **13 Patents** from which **1 international** -“Magnetic Nanostructures and Device Implementing Same”, Pub. App. No. 14/308711/, Patent number US9469555-B2/2016, USA; **Member at 69 research national projects** (“Modalitati de valorificare a namolurilor provenite din deseuri biodegradabile (din bazinele hidrotehnice de acumulare si statii de epurare) in vederea reducerii poluarii mediului”, C PN II 32-105/2008, 34 months, “Tehnologie inovativa pentru obtinerea de produse ecologice si biodegradabili cu actiune duala anticrusta si anticoroziva pentru tratarea apelor din sistemul energetic”, CeEx Nr. 32-137 / 2008), from which **45 as Manager**: Dezvoltare laborator de caracterizare și expertizare mecano-metalurgică a materialelor metalice, POSCCE ID 1799/2015; Creșterea competențelor întreprinderilor și angajaților în perspectiva dezvoltării durabile, proiect POSDRU ID: 59322, 2012–2014; Educație și formare profesională prin îmbunătățirea calității programelor de masterat în ingineria mediului, POSDRU/156/1.2/G/136776, 2014–2015; **Member at 4 international projects** (“Research to identify plants specific from Romanian ecosystems contaminated by toxic metals”, Project 555/2010, Romania – Austria, 24 months; “Innovative techniques for advanced wastewaters treatment”, Project 775/2014, Romania – France, 24 months.

Foreign languages: English

I hereby state that all information is correct, January 2018

Prof. Univ. Dr. Eng. Cristian Predescu