



Europass Curriculum Vitae

Personal information

First name / Surname **Ecaterina / Matei**
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E-mail ecaterinamatei@yahoo.com, ecaterina.matei@ecomet.pub.ro
Nationality Romanian
Date of birth 01.09.1974
Gender Female

Occupational field **Lecturer**

Work experience

Dates **From February 2008 – present**
Occupation or position held Lecturer, Ecometallurgy and Material Processing Department (PME)
Main activities and responsibilities

- Teaching and publishing activities
- Consulting, training and preparation activities for diploma and dissertation thesis
- Laboratory activities with graduated and post-graduated students
- Elaboration of research and laboratory articles together with students for different student competitions
- Research activities focused on: environment and material field, pollutants analyses, new material synthesis characterization and analyses, environmental laboratory management
- Scientific, technical and managerial activities within national and international projects

Name and address of employer POLITEHNICA University of Bucharest, Faculty of Material Science and Engineering, 313, Splaiul Independentei, 6 District, Bucharest, Romania

Type of business or sector Education

From January 2007 - present
Laboratory Manager, Ecometallurgy Laboratory, Center for Eco-Metallurgical Research and Expertise (UPB-CCEEM)

- Coordination of laboratory activity according to SR EN ISO/CEI 17025 / 2005 quality system requirements

POLITEHNICA University of Bucharest, Faculty of Material Science and Engineering, 313, Splaiul Independentei, 6 District, Bucharest, Romania

Fundamental and applied research

From February 2006 to January 2008
Research assistant
Participation and execution of some national and international projects from environmental field, characterization and monitoring of environmental factors: water, soil and wastes
POLITEHNICA University of Bucharest, Faculty of Material Science and Engineering, 313, Splaiul Independentei, 6 District, Bucharest, Romania

Research

From February 2006 to December 2006
Internal Auditor at Ecometallurgy Laboratory Center for Eco-Metallurgical Research and Expertise (UPB-CCEEM)
Internal audits according to SR EN ISO/CEI 17025 / 2005 requirements, participation at training courses, assessment of quality system of some environmental laboratories
POLITEHNICA University of Bucharest, Faculty of Material Science and Engineering, 313, Splaiul Independentei, 6 District, Bucharest, Romania

Auditing activities

From March 2002 to January 2006

Researcher, Environmental Laboratory
 Research activities, laboratory analyses
 Metallurgical Research Institute – ICEM SA Bucharest, 39 Mehadia Street, 6 District, Bucharest ,
 Romania
 Research

From November 1997 to March 2002

Chemist, Environmental Laboratory
 Research activities, laboratory analyses
 Metallurgical Research Institute – ICEM SA Bucharest, 39 Mehadia Street, 6 District, Bucharest ,
 Romania
 Laboratory activities

Education and training

Dates

From Mai 2010 – March 2013

Title of qualification awarded

Postdoctoral Scholarship from European Social Fund through POSDRU/89/1.5/S/54785 project:
 "Postdoctoral Program for Advanced Research in the field of nanomaterials"

Principal subjects/occupational skills covered

- Synthesis and characterization of nanomaterials
- Application of nanomaterials for environmental field and medicine

Name and type of organisation providing education and training

POLITEHNICA University of Bucharest

Level in national or international classification

ISCED - 8

From September to December 2009

Postgraduate course, Safety and Health Specialist (SHS)
 Assessment of risks and injury of occupational diseases
 Petrosani University, Faculty of Mine
 ISCED - 8

From October 2000 to October 2005

Ph. D. in Material Science
 Science and Environmental Field, Environmental Engineering
 POLITEHNICA University of Bucharest, Faculty of Material Science and Engineering
 ISCED - 8

From October 1997 to June 1998

Master
 Chemistry, Natural and Synthesized Organic Compounds with Multifunctional Properties
 University of Bucharest, Faculty of Chemistry
 ISCED - 7

From October 1992 to July 1997

Chemist
 Organic Chemistry
 University of Bucharest, Faculty of Chemistry
 ISCED - 7

Personal skills and competences

Mother tongue

Romanian

Other languages

Self-assessment

European level (*)

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C1	Proficient user	B2	Independent user	B2	Independent user	C1	Proficient user

French	B1	Independent user	B2	Independent user	B1	Independent user	B2	Independent user	B1	Independent user
	(*) Common European Framework of Reference for Languages									
Social skills and competences	- team spirit gained by working with people having different qualifications; - good ability to adapt to multicultural environments, gained through my work experience with young people, students and post-graduated students and also by research activities; - good communication skills gained through my experience as teacher.									
Organisational skills and competences	<u>Competences as Laboratory Manager</u> - Implementation of quality system according to SR EN ISO/CEI 17025 / 2005 - Coordination of laboratory technical team in order to achieve specific activities: water, soil, wastes analyses, inter-laboratory comparisons, equipment maintenance - Organization of internal trainings for employers for obtaining laboratory competences. These competences were gained by participation at the following courses: March 2005, Graduated course: Monitoring of the Projects, Organization: Technological Transfer, Innovation and Scientific Research Agency (AMCSIT) Qualification: <i>Project Manager</i> <u>Competences as Internal Auditor</u> - Assessment of laboratory activity through internal audit achievements, - Periodical testing of laboratory employers. These competences were gained by participation at the following courses: March 2008: Graduated course: Requirements for internal audit according to SR EN ISO 19011 / 2003 specific for laboratories, Organization: Romanian Accreditation Association (RENAR) Qualification: <i>Internal Auditor for Quality and Environment System</i> July 2004: Graduated course: Internal Auditors Training for an Integrated Environment Quality System Management, Organization: Qualitas SA Bucharest Qualification: <i>Internal Auditor for Quality and Environment Systems</i>									
Driving licence	Driving licence category B, since 2007									
Additional information	➤ Member of the Romanian Society of Metallurgy (SRM, 2007) ➤ Member of the Romanian Society of Biomaterials (SRB, 2010)									

List the most relevant papers

- 1) C.I. [Covaliu](#), G. [Paraschiv](#), S.S. [Biris](#), I. [Jitaru](#), E. [Vasile](#), L. [Diamandescu](#), T.C. [Velickovic](#), M. [Krstic](#), V. [Ionita](#), H. [Iovu](#), **E. Matei**, *Maghemite and poly-dl-alanine based core-shell multifunctional nanohybrids for environmental protection and biomedicine applications*, Applied Surface Science, 285 (PART A), pp. 86-95, 2013,
- 2) **E. Matei**, A. M. Predescu, C. Predescu, M.G. Sohaciu, A. Berbecaru, C. I. Covaliu, *Characterization and application results of two magnetic nanomaterials*, Journal of Environmental Quality, 42 (1), pp. 129-136, 2013 ISSN: 0047-2425, doi:10.2134/jeq2012.0147
- 3) [Miculescu, F.](#), [Miculescu, M.](#), [Ciocan, L.T.](#), [Pencea, I.](#), [Ernuteanu, A.](#), **Matei, E.**, *Correlation of spectrometric methods in hard tissue heavy elements concentration study*, UPB Scientific Bulletin, Series A: Applied Mathematics and Physics 75 (1), pp. 233-242, 2013
- 4) [Sohaciu, M.](#); [Predescu, C.](#); [Vasile, E.](#); **Matei, E.**; [Savastru, D.](#); [Berbecaru, A.](#) *Influence of MnS Inclusions in Steel Parts On Fatigue Resistance*, in Digest Journal of Nanomaterials and Biostructures, Vol. 8, Issue: 1, pp. 367 – 376, 2013
- 5) Moncea, A.M., Georgescu M., Bădănoiu A., **Matei E.** *Immobilization of waste glass with high lead content in different binding matrices. Influence on the mechanical strength*, Romanian Journal of Materials, 42 (2), 2012, 152 – 163, ISSN 1583-3186
- 6) **E. Matei**, A. M. Predescu, A. Predescu, E. Vasile, *Characterization and testing of the maghemite nanoparticles used for removal of hexavalent chromium from aqueous synthetic solutions*, Environmental Engineering and Management Journal, 10 (11), 2011, 1711-1717
- 7) **E. Matei**, C. Predescu, A. Berbecaru, A. M. Predescu, R. Trusca, *Leaching tests for synthesized magnetite nanoparticles used as adsorbent for metal ions from liquid solutions*, Digest Journal of Nanomaterials and Biostructures, 6 (9), 2011, 1701 – 1708, ISSN 1842 – 3582,
- 8) [Miculescu F.](#), [Miculescu M.](#), [Ciocan L.T.](#), **Matei E.**, *Comparative studies regarding heavy elements concentration in human cortical bone*, Digest Journal of Nanomaterials and Biostructures, 6(3), 2011, 1117 – 1127, ISSN 1842 – 3582
- 9) **E. Matei**, A. M. Predescu, E. Vasile, C. Predescu, *Investigations on nano-iron oxides properties used for different industrial applications*, Optoelectronics and Advanced Materials – Rapid Communications, 5 (3), 2011, 296 – 301, ISSN 1842-6573
- 10) Predescu C., **Matei E.**, Nicolae A., *Elemente de management bazat pe conceptul de BAT al apelor generate în procesele chimico-industriale*, Revista de Chimie, 58(10), 2007, 978 – 982