



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Lenuța - Jana ENACHE**
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Nationality Romanian
Date of birth 21.02.1957
Gender Female

Work experience

Dates 2005-2011

Occupation or position held Scientific researcher III in the Laboratory of Chemical and Physical Analysis, Head of Laboratory from 2006 to present

Main activities and responsibilities Material analyses using various analytical methods volumetrics and gravimetrics.
- The development of new methods of analysis for the characterization of products obtained in the technological processes from various research activities;
- The coordination of the implementation of the quality management system in the Laboratory of Chemical and Physical Analysis, according to SR EN ISO/CEI 17025 : 2005 the final objective being the accreditation of the Laboratory of Atomic Absorption Spectrometry and the Laboratory of X-Ray Diffraction
- Participation as an analyst to projects from national/international research programs

Name and address of employer National R&D Institute for Nonferrous and Rare Metals, Bucharest INCDMNR-IMNR
Type of business or sector Chemical Analysis, Research and development in nonferrous and rare metals

Dates 2000-2005

Occupation or position held Scientific researcher III

Main activities and responsibilities Chemical analysis
Collaborated with chemical analysis to research activities in the field of inorganic synthesis, environmental protection and engineering, refractory oxidic materials, recovery and valorisation of lead from volatile dusts captured from the Neferal plant, collaborator in the Orizont 2000 Program, Relansin projects, the synthesis of utradisperse powders based on ZrO₂ through sol-gel processes, the syntherization and their characterization (Romanian–Greek research project)

Name and address of employer Institute for Non-ferrous and Rare Metals, Bucharest, IMNR
Type of business or sector Research and development in nonferrous and rare metals

Dates 1985-2000

Occupation or position held Scientific Researcher

Main activities and responsibilities | Material analyses using various analytical methods
 Collaborator in applicative research projects through chemical analysis (volumetric and gravimetric) for the products obtained in technological processes in the Rare Metals and PCM Departments: nuclear use zirconium, zirconium recovery from zircalloy and pickling solutions, the production of barium titanate from ilmenite, the recovery of nickel from used catalysts, the recovery of molybdenum from molybdate solutions. I performed the analysis of various materials – ore, slags, ashes, waste, salts, oxides, powders, hydroxides, carbides, alloys identifying both anions and cations in different oxidation levels, including also functional groups of various compounds.

Name and address of employer | Institute for Non-ferrous and Rare Metals, Bucharest IAMN
 Type of business or sector | Research and development in nonferrous and rare metals

Dates | 1982- 1985

Occupation or position held | Chemical engineer

Main activities and responsibilities | During this period I learned the analysis methods specific to my position, and I performed chemical volumetric analysis: measurements of the total water hardness, organic compounds, chemical oxygen consumption, biochemical oxygen consumption, alkalinity and acidity, chlorides, spectrofotometric analysis: the measurement of ammonia levels, nitrates, nitrites, iron, cyanides, turbidity, phenols necessary for the determination of drinking water quality. I developed a method for phenol measurement using steam blowing and for organic compounds using potassium dichromate.

Name and address of employer | Pitești, Automobile Factory
 Type of business or sector | Chemical analysis for drinking water and surface water

Education and training

Dates | September 1977 – July 1982

Title of qualification awarded | Chemical engineer

Principal subjects/occupational skills covered | Industrial chemistry

Name and type of organisation providing education and training | Polytechnic Institute of Bucharest, Faculty of Chemical Technology: Inorganic Chemical Technology.

Personal skills and competences

Mother tongue(s) | Specify mother tongue : Romanian

Other language(s)

Self-assessment

European level (*)

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
A2	Basic User	A2	Basic User	A2	Basic user	A2	Basic user	A2	Basic user
B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user

(*) Common European Framework of Reference for Languages

Social skills and competences	<p>Communication skills</p> <p>Team work</p> <p>good coordinator</p> <p>good organizer</p> <p>Responsibility</p> <p>Capacity effort, perseverance and completion of actions started</p> <p>Capacity of solicitude and help others</p>
Organisational skills and competences	<p>Head of Laboratory of Chemical and Physical Analysis, 2006-2011</p> <p>- Activity of organization, management and control in the laboratory</p> <p>- Participation in the efficient dissemination of the results of research/development activities</p> <p>- Scientific/technical activity in the projects of the Institute</p> <p>- Organisation of the laboratory activity and participation to project competitions</p> <p>- Participation to scientific events in the field of the laboratory</p> <p>- Participation in training young researchers and transmission of knowledge and their experience in research and development.</p> <p>- Assimilation and use of best practice in the specific field of activity</p> <p>- Coordination of the RENAR accreditation of the Laboratory of Atomic Absorption Spectrometry and the Laboratory of X-Ray Diffraction.</p>
Technical skills and competences	<p>- 26.06.2007- 28.06.2007 – RENAR Course „The requirements of SR EN ISO 19011: 2003</p> <p>- 21.12.2006 - 23.12. 2006 – RENAR Course „ The requirements of SR EN ISO/CEI 17025: 2005. The management system of an analysis laboratory; definitions; technical requirements. Module 1: The FALL Program: Training of internal auditors for the laboratories of testing/calibration.</p> <p>- volumetric and gravimetric chemical analysis</p> <p>- Phasic analysis</p> <p>-Analyst in 38 national/international projects (ORIZONT 2000, PNCD1,PNCD2 CEEX, Sectorial, Inovare, FP5,FP6) as member team.</p>
Computer skills and competences	<p>Competent with most Microsoft Office programs</p>
Additional information	
Annexes	<ol style="list-style-type: none"> 1. List of publications (selection) 2. List of national and international projects

LIST OF PUBLICATIONS (SELECTION)

Articles:

Refereed Journals

Refereed proceedings

Research on determining the optimal technology for the processing of serpentinite from Dubova dums (Mehedinți) for the rehabilitation of the region. Part A: Structural, physical and chemical characteristics of rocks from serpentinite in the Dubova dums (Mehedinți)

Bădiliță Viorel, Stoiciu Florin, Mara Luminița, **Enache Lenuța**, Neagu Eleonora, Soare Victoria, Sârbu Andrei – ROMAT 2006

Research on determining the optimal technology for the processing of serpentine from the Dubova dums (Mehedinți) for the rehabilitation of the region. Part B: Issues on the possibilities for processing of serpentine rock for a more efficient use and for the rehabilitation of the Dubova region (Mehedinți)

Mara Luminița, Bădiliță Viorel, **Enache Lenuța**, Neagu Eleonora Soare Victoria, Sârbu Andrei, Sârbu Liliana, Victor Fruth, Bacalum Fănica, Mariana Beda - ROMAT 2006.

Considerations on obtaining ceramic structures based on indigenous natural zeolites (activated clinoptilolite type) – Practical applications

Bădiliță Viorel, Stoiciu Florin, Mara Luminița, **Enache Lenuța**, Neagu Eleonora, Bacalum Fănica, Liliana Sârbu, Andrei Sârbu, Bombos Florin - ROMAT 2006

Petre Capota, Cornel Simu, **Lenuța Enache**, Eleonora Neagu, **Victoria Soare**, Victoria Purcaru, Estera Constantinescu, „*Physical-chemical methods for characterisation of lead containing slag and their polluting potential*”, XXXth National chemistry conference, 8-10 October 2008, Calimanesti-Caciulata, Valcea.

Lenuța Enache, Eleonora Neagu, Victoria Purcaru, Cornel Simu, Victoria Soare, „*Determining the harmfulness degree of waste derived from the purification of exhausted gas resulted in aluminum thermal metallurgy*”, XXXth National chemistry conference, 8-10 October 2008, Calimanesti-Caciulata, Valcea.

Luminița Mara, Silvana Onisei, Elena Sarbu, Viorel Badilita, **Lenuța Enache**, Victoria Soare, Rodica Zavoianu, Andrei Sarbu, Liliana Sarbu, Fănica Bacalum, „*Effect of the operating conditions on the porous monoliths from syntetic hydrocalcites and natural zeolite tuffs used in environmental applications*”, Torino, Italia, 16-20 septembrie 2008.

Effects of the operating conditions on the porous monoliths from syntetic hydrocalcites and natural zeolite tuffs used in environmental applications. Luminița Mara, Silvana Onisei, Elena Sârbu, Viorel Bădiliță, **Lenuța Enache**, Victoria Soare, Rodica Zăvoianu, Andrei Sârbu, Liliana Sârbu, Fănica Bacalum – Torino, Italia, 16-20 September 2008

Atomic absorption spectrometry with advanced techniques: atomisation electrothermics and hydrides generation for the chemical characterization of hidroxiapatite.

Eleonora Neagu, **Lenuța Enache**, Petre Capotă - - A - XXX – National Chemistry Conference, 8 – 10 October 2008, Călimănești – Căciulata, Vâlcea.

Experimental Studies For Evaluating the Soluble Species in Leaching Tests of Red Mud Waste Luminița Mara, Lenuța Enache, Eleonora Neagu, Victoria Soare, Petre Capotă, Victoria Purcaru, Vasile Predica, Silvana Onisei, Cornelia Lupu, Rodica Zăvoianu, Dumitru Octavian Pavel International Conference on Materials Science and Engineering, 26-28 February 2009, Brașov

Ghiță M., Stoiciu F., Bădiliță V., Predica V., Enache L. – “*Chemical and mineralogical characterization of rezidues from the recycling of accumulator batteries wasted*”, Romanian Journal of Mineral Deposits, vol. 84, Special Issue, Ed. IGR, 2010, ISSN 1220-5648

Ghiță M., Stoiciu F., Bădiliță V., Enache L., Stoiciu M. – “*Mineralogical and chemical study of the hidrargyllite and of the red mud resulted as by-product for its revaluation*”, “SGEM 2011- 11th International Multidisciplinary Scientific Geoconference”, Conference Proceedings, Volume 1, Albena, Bulgaria, June 2011, ISSN 1314-2704

Ghiță M., Stoiciu F., Bădiliță V., Predica V., Enache L., Georgescu V. – “*Complex study, chemical and mineralogical, of the red mud dumps results in romanian alumina plants*”, “SGEM 2011- 11th International Multidisciplinary Scientific Geoconference”, Conference Proceedings, Volume 1, Albena, Bulgaria, June 2011, ISSN 1314-2704

Lenuța Enache, Eleonora Neagu, Luminița Mara, Petre Capota, Victoria Purcaru, Victoria Soare- Chemical characterization of the eluates from waste and their classification according to the order 95 / 12.05.2010, Sinaia, oct.2009

Lenuța Enache, Eleonora Neagu, Luminița Mara, Petre Capota, Victoria Purcaru, Victoria Soare – Comparative analytical methods for chemical characterization of metallurgical slags, Sinaia oct.2009

LIST OF NATIONAL AND INTERNATIONAL PROJECTS (SELECTION)

INTERNATIONAL PROJECTS:

NATIONAL PROJECTS:

Program / Project	Role	Period
CRAFT METMICOATED - G5ST-CT / 2002-50328 (FP5 UE program)	Collaborator	2003 – 2005
BIONANOCOM / C138 (306) - Advanced technologies for synthesis and processing of biocompatible nanocomposite powders.	Collaborator	2003 – 2005
Multifunctional materials in the form of nanostructured films with controlled ferroelectric properties	Collaborator	2005-2006
MENER: New concept of ecological and efficient processing of lead concentrates	Collaborator	2003- 2005
RELANSIN: Modern technology and installation for recycling secondary resources with lead content.	Collaborator	2003-2005
Study of the oxidation of sulphide concentrates of nonferrous metals in aqueous environments	Collaborator	2007-2008
Relansin I: Structured ceramic materials with special properties	Collaborator	2003-2004
MATNANTECH C192 (401) Titanium-hydroxiapatite composite obtained by electrophoresis for medical applications	Collaborator	2004-2006
CEEX 46-2005 Rete- β dent. Integrated technology network for the research of advanced biocompatible structures for dental implants.	Collaborator	2005-2006
Contract 16-2005 TECOREMED. Integrated technologies for obtaining nanostructured biocomposites with applications in the regenerative medicine of bone tissues.	Collaborator	2005-2006
Contract CEEX 87-2006-UV NANOMAT. UV photoreticulable nanomaterials, multifunctional, with special decorative and dental applications.	Collaborator	2006-2007
CEEX 12/2005 Organic-inorganic hybrid nanostructures based on serpentinite and vinyl polymers for obtaining advanced composites (NAHANOSCA)	Collaborator	2005-2008
CEEX 14/2005 New materials for catalytic depollution of gaseous industrial effluents (CATOX)	Collaborator	2005-2008
PROGRAM NUCLEU / Particulate filters used in industrial SMEs Metallurgy	Collaborator	15.06.2005-31.10.2005
PROGRAM NUCLEU / Porous bidisperse oxido-ceramic multifunctional structures as filters and catalytic adsorbers obtained from natural silicates, used for the treatment of pollutant gaseous emissions resulted in various industrial processes	Collaborator	2007-2008
CEEX MODUL IV / Accreditation of a laboratory for chemical analysis and physical characterization of nanobiomaterials NANOBIOATLAB Contract Nr. 199-/10.08.2006	Collaborator	2006-2008
FP6: Biotechnology for Metal Bearing Materials – BIOMINE	Collaborator	2004 -2007
Ti-HAP composite for medical applications	Collaborator	2004 - 2005
Making biocompatible implants using advanced nanostructured ceramic layers grown electrochemically on titanium	Collaborator	2007- 2009
Metallic materials for biotechnology in Europe. Phase I-IV. Studies and experimental research module on biosolubilisation of galene and the processing of biosolubilised residue for the recovery of lead and noble metals.	Collaborator	2007- 2009
PNCDI2- Contract 71043/2007 ECOPAM. Advanced materials derived from compounds of clinoptilolite hidrotalcite and for removing pollutants from wastewater and liquid petroleum fractions by environment-friendly methods (ECOPAM)	Collaborator	2007-2010

PN 06-23 02 08 Technology for processing aluminium slags to obtain coagulants – aluminium chlorides and polychlorides – for environmental depollution.	Collaborator	2007-2008
PN 06-23 02 06 Bidisperse porous oxido-multifunctional ceramic structures, as filters, catalysts and absorbents obtained by exploiting natural silicate, used for the treatment of gaseous emissions resulting in various industrial processes.	Collaborator	2007-2009
PN 06-23 02 10 Studies and research on the recovery of lead slags resulted in the secondary metallurgy of lead	Collaborator	2007-2009
PN 06-23 03 03 Studies on the development of complex methods of experimental investigation of potential pollutant and opportunities for reconversion of industrial slags from aluminium metallurgy.	Collaborator	2007-2009
PN 06-23 03 04 Characterization methods for slags containing lead, obtained from lead recovery of waste with lead content, and their polluting potential.	Collaborator	2007-2009
PN 06-23 04 07 Technologies for synthesis of nanostructured materials with advanced applications.	Collaborator	2007-2009
PN 06-23 04 06 Advanced technologies for turning non-ferrous materials in the development of new nanostructures for biosensors.	Collaborator	2007-2009
HINAMASENS - Hybrid nanostructured materials for sensors with potential for use in therapy and diagnosis	Collaborator	2007-2010
TECNANOECO – New concepts on technological development of nanomaterials with low environmental impact	Collaborator	2008-2011
The obtaining of gallium for the complex and ecoefficient valorification of bauxite ore. Contract no. 71 – 017/18.09.2007	Collaborator	2007-2009
NEPOLL: The estimation of the pollution degree of water and soil in the vicinity of the industrial area NEFERAL – Bucharest and the impact upon the health of people living in this area.	Collaborator	2005- 2007
Ctr. 86/15.01.2008 Research study for the characterization of volcanic tuffs from the Racos-Brasov region (SC ELEOLIT SRL)	Collaborator	2008
PNCDI 2 - Ceramic foams from polymeric nanocomposites designed for cleaning gaseous flows from large combustion plants (SPUCERCET)	Collaborator	2008-2011
PNCDI 2 - Oxidic multifunctional materials for environmental applications, obtained through innovative treatment and recovery of red mud resulted in the production of alumina -MOLVALNR	Collaborator	2008-2011
PN 09 24 04 03- Characterization by chemical-physical methods of inorganic-organic composite materials with specific environmental applications	Collaborator	2009-2011
PN 09 24 02 02- Influence of nanostructure on the properties of photoluminescence and photocatalysis of TiO ₂ -ZrO ₂ composite system	Collaborator	2009-2011
PN 09 24 02 01- Nanostructured materials based on ZnO ₂ and TiO ₂ with potential applications in upgrading traditional industries	Collaborator	2009-2011