



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **MOISE Alexandra-Georgiana**
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E-mail moise_geo_alex@yahoo.com
Nationality Romanian
Date of birth 16 March 1990
Gender Female



Professional experience

Period	01/11/2015-present
Occupation or position held	Scientific researcher – Engineer; Deputy head of department;
Name and address of employer	National R&D Institute for Nonferrous and Rare Metals (INCDMNR-IMNR); Biruinței Blvd 102, Pantelimon, Ilfov;
Occupation or position held	Research & Development
Period	01/11/2013-31/10/2015
Occupation or position held	Assistant scientific researcher – Engineer; Deputy head of department;
Name and address of employer	National R&D Institute for Nonferrous and Rare Metals (INCDMNR-IMNR); Biruinței Blvd 102, Pantelimon, Ilfov;
Type of business or sector	Research & Development
Period	01/04/2013-01/10/2013
Occupation or position held	Materials science technician;
Name and address of employer	National R&D Institute for Nonferrous and Rare Metals (INCDMNR-IMNR); Biruinței Blvd 102, Pantelimon, Ilfov;
Type of business or sector	Research & Development

Education and training

Dates	01/10/2015-present;
Qualification / diploma obtained	PhD student in Materials Engineering;
Principal subjects	Materials Engineering;
Name and type of organization providing education and training	University POLITEHNICA of Bucharest, Doctoral School of Materials Science and Engineering; Splaiul Independentei 313, Bucharest (Romania)
Dates	01/10/2013-02/07/2015
Qualification / diploma obtained	Master's degree - Modern techniques of Environmental Protection in Materials Industry; Dissertation: "Study and research on the hazard degree of extractive metallurgical wastes-lead secondary metallurgy "
Principal subjects	The chemical bases of pollutants generation; The role of natural capital in sustainable industry; Statistical analysis of ecosystems; Methods to prevent and control pollution; Strategies and policies for sustainable development; Recycling and renewable energy sources; Environmental management information systems.
Name and type of organisation providing education and training	University POLITEHNICA of Bucharest, Materials Science & Engineering Faculty Splaiul Independentei 313, Bucharest (Romania)

Dates	01/10/2009-16/09/2013
Qualification / diploma obtained	Domain - Environmental Engineering Specialization: Engineering and Environmental Protection in Industry Bachelor's degree, The title of engineer; License: "Synthesis and testing of nano-sized iron oxide applicable in medicine and environmental protection" Diploma valedictorian; Certificate of Practice issued by the National Institute of Research and Development for Environmental Protection - (21.05-03.08 2012); Graduating Teacher Training Course;
Principal subjects	Knowledge of processes generating emission, dispersion and monitoring; Possession of information and knowledge used in the characterization and analysis laboratory techniques pollutant emissions; Higher skill level for the design and operationalization of technologies and equipment for pollution prevention and control; Solid knowledge regarding the application of management principles and environmental law; Reintegration waste, refurbishment and reconstruction of the environment polluted; Continuous assimilation of new knowledge and information of improved documentation in foreign languages, ability to identify and penetrate new tools to improve (national and international); The ability to design and implement engineering activities based on the recognition and construction of an integrated flow correct: Documentation - design stages - technology implementation (installation) - evaluation aims;
Name and type of organization providing education and training	University POLITEHNICA of Bucharest, Materials Science & Engineering Faculty Splaiul Independentei 313, Bucharest (Romania)
Dates	01/11/2014-13/11/2015
Qualification / diploma obtained	Merit Diploma (April 3 to 4, 2015); Merit Diploma (21 to 22 November 2014); Project ID 136 776-HRD Education and Training through improved quality master's program in environmental engineering;
Principal subjects	Pollution prevention and monitoring of environmental factors;
Name and type of organization providing education and training	University POLITEHNICA of Bucharest, Materials Science & Engineering Faculty Splaiul Independentei 313, Bucharest (Romania)
Dates	15 to 24 September 2014
Qualification / diploma obtained	Participation Certificate -The 2nd International Summer School;
Principal subjects	Environmental analysis and monitoring techniques, infrastructure, spatial data, 3-D geospatial imaging techniques, "Investigations in New geomatics technologies for geospatial phenomena"
Name and type of organization providing education and training	University of Agronomic Sciences and Veterinary Medicine, Bucharest (Romania).
Dates	01/05/2013-30/07/2013
Qualification / diploma obtained	European Credit Transfer and Accumulation System (ECTS) Preparation for Bachelor's degree, Erasmus - Studied topic:" Aluminum alloys for aerospace and automotive applications castings ".
Name and type of organization providing education and training	University Politecnico di TORINO, Corso Duca degli Abruzzi, 24-10129 Torino, ITALY P.IVA / C.F.: 00518460019
Dates	15-18 March 2013
Qualification / diploma obtained	Certificate of training "Experimental Techniques in Materials Science"
Principal subjects	Getting about research and development; Methods of obtaining and using advanced materials; The organization, planning and optimization experiments;
Name and type of organisation providing education and training	National Research and Development Institute for Nonferrous and Rare Metals (INCDMNR-IMNR)

Dates 15/09/2005-15/06/2009
 Qualification / diploma obtained Certified computer operating skills, High School Diploma;
 Principal subjects Computer - Borland Pascal programming language, Visual FoxPro databases, mathematics;
 Name and type of organisation Economic College
 providing education and training T. Vladimirescu ,No. 15, Buzau (România)

Mother tongue Romanian

Other language(s)

Self-assessment

European level (*)

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Listening		Reading	
C2	Proficient user	C2	Proficient user	B2	Independent user	B2	Independent user	B2	Independent user
A2	Basic user	A1	Basic user	A2	Basic user	A2	Basic user	A1	Basic user

(*)[Common European Framework of Reference for Languages](#)

Social skills and competences

Team spirit;
 Ability to adapt to multicultural environments, gained through experience developed in European projects;
 Good communication skills gained through my participation to volunteering;

Organizational skills and competences

Leadership in projects that relied on teams of 5 members;
 Sense of organization;
 Good experience in project or team;

Technical skills and competences

Technical skills and competences in computing

Computer skills and competences

Good command of Microsoft Office™ (Word™, Excel™ and PowerPoint™); Borland Pascal, Visual FoxPro

Driving license

B

Additional Information

1. Conducting research in the Laboratory of Ecometalurgie (ECOMET) with the following projects: - "Monitoring the environmental impact of works to improve navigation conditions on the Danube between Calarasi and Braila, km 375 - km 175" - the Program Operational "Transport" (POS-T) 2007-2013;
 2. Participation in Scientific Communication Session, Politehnica University, 2010, 2011, 2012, 2014;
 3. Volunteering Projects:
 - Against Drugs Trafficking and the National Strategy for Prevention and Control of Juvenile Delinquency in collaboration with IJP Buzau and NAA - branch Buzau
 -Against Trafficking of Persons ASSOCIATION FOR PROMOTION OF ACCESS AND EQUAL OPPORTUNITIES (APASE) BUZAU
 - „Global Teenager Project ",
 -Volunteer in an action organized at high school - National Strategy for Community Action Project SNAC - Partner Community Services Complex no. 9 Buzau
 -Junior Achievement (Global Business Ethics, „Key to success”, Global Business Challenge)

Annex

List of participating conferences / symposia / fairs national / international list participation in the project / national / international list of publications and awards.

Appendix

Scientific papers presented at international conferences with program committee

1. T. Velea, **G. Moise**, A. Grădinaru, L. Mara, Fiz. V. Badilita, V. Fruth, C. Munteanu, "Comparison between different adsorbent materials used for copper (II) removal from aqueous solutions"- 11th Edition of International Symposium "Priorities of Chemistry for a Sustainable Development" PRIOCHEM, Bucharest, ROMANIA, 29-30 Oct. 2015- ISBN-2345-3645;
2. Mara Luminita, **Moise Georgiana**, Gradinaru Andreea, Gherghe Liliana, Mihaiescu Daniel, Capota Petre, Purcaru Victoria, "Investigation of rare Earth metals leaching process for Neodymium recovery from scrap Nd-Fe-B Magnets"- 11th Edition of International Symposium "Priorities of Chemistry for a Sustainable Development" PRIOCHEM, Bucharest, ROMANIA, 29-30 Oct. 2015- ISBN-2345-3645;
3. Mara Eleonora Luminita, Velea Teodor, **Moise Georgiana**, Gradinaru Andreea, Sarbu Andrei, Mihaiescu Daniel, Capota Petre, Dragut Valentin, Stoiciu Florin, Radu Laura Anita, Fruth Victor, Munteanu Cornel, "Influence of the electromagnetic irradiation pre-treatment on the separation process in wet medium of the mesoporous silica with low iron content from serpentinite minerals"- 11th Edition of International Symposium "Priorities of Chemistry for a Sustainable Development" PRIOCHEM, Bucharest, ROMANIA, 29-30 Oct. 2015- ISBN-2345-3645;
4. I. Anger, T. Velea, L. Mara, **G.A. Moise**, B. Andrei, V. Fruth-Oprisan, C. Munteanu, E. Neagu, V. Bădiliță, F. Stoiciu- "Removal Of Heavy Metals From Aqueous Solutions Using Fly Ash Govora.1. Zinc" -"The 19th Romanian International Conference on Chemistry and Chemical Engineering", 2 to 5 September 2015, Sibiu, Romania;
5. Luminița Mara, Teodor Velea, **Georgiana-Alexandra Moise**, Daniel-Cristian Mihăiescu, Andrei Sârbu, Anita-Laura Radu, Lenuța Enache, Petre Capotă, Viorel Bădiliță, Valentin Draguț, Victor-Oprisan Fruth, Cornel Munteanu, Liliana Sarbu- "Intensifying the recovery of useful elements (Si, Mg, Fe) from serpentinite wastes by the use of synergic influence of microwave irradiation fields and advanced grinding material effects" -"The 19th Romanian International Conference on Chemistry and Chemical Engineering", 2 to 5 September 2015, Sibiu, Romania;
6. T. Velea, **G. Moise**, A. Grădinaru, A. Mitu, V. Badilita, V. Fruth, C. Munteanu, „Production, characterization and application of nanosized iron oxide in metalurgical and mining industry”, Simpozionul Internațional "Chemistry for Sustainable Development Priorities", PRIOCHEM Xth, 30 to 31 October 2014, Bucharest, Romania;
7. T. Velea, A. Mitu, **G. Moise**, A. Grădinaru, A. Sârbu, T. Sandu, V. Fruth, M. Bărbulescu, "New possibilities for use of the cross-linked polymers", Simpozionul Internațional "Chemistry for Sustainable Development Priorities", PRIOCHEM Xth, 30 to 31 October 2014, Bucharest;
8. T. Velea, A. Gradinaru, A. Mitu, **G. Moise**, V. Fruth, C. Munteanu, D. Culita, M. Barbulescu, "Removal of copper (ii) from aqueous solutions with different types of biochar produced from biomass", Simpozionul Internațional "Chemistry for Sustainable Development Priorities", PRIOCHEM Xth, 30 to 31 October 2014, Bucharest;
9. A. Gradinaru, A. Mitu, **G. Moise**, Second edition of the International Summer School "New geomatics technologies for investigations in geospatial phenomena", Bucharest, September 15-24, 2014;
10. T. Velea, D. Morin, V. Predica, L. Gherghe, L. Mara, **G. Moise**, A. Grădinaru, A. Varna, "Biomining: lead concentrates oxidation", SHECHTMAN INTERNATIONAL SYMPOSIUM, 29 June-4 July, 2014 Cancun, Mexic;
11. F. Stoiciu, Ildiko Anger, **Georgiana Moise**, Eugenia Gament, Mariana Marinescu, M. Mihalache, L. Ilie, Lavinia Popescu, Eniko Volceanov, Fl. Zaman-, "A new possibility for use of steel (LF) slag"- VI International Congress of Metallurgists of Macedonia, "Metallurgy, materials and environment"- 29 May - 01 June 2014, Ohrid, Macedonia, 29.05-01.06 2014, Publicat in Book of Extended Abstracts, ISBN 978-9989-9571-6-1;
12. Andreea Mitu, Luminita Mara, Andrei Sarbu, Anita Laura Radu, **Georgiana Moise**, Enache Lenuta, Viorel Badilita, Valentin Dragut, Florin Stoiciu, Mihai Ghita, Victoria Soare-, "Research regarding synthesis and physical and chemical characterization aspects on mesoporous silica materials obtained from a waste natural serpentinite rocks"- VI International Congress of Metallurgists of Macedonia, "Metallurgy, materials and environment"- 29 May - 01 June 2014, Ohrid, Macedonia;
13. Teodor Velea, Andreea Mitu, Andreea Grădinaru, **Georgiana Moise**, Luminita Mara, Cornel Frațilă, Mihai Ghiță, Valentin Drăguț, "Research on methods of treating mine water generated from exploitation of Roșia Poieni, Romania", Ninth International Symposium of Geology Economic "Odyssey mineral resources", 30 to 31 May 2014, Bucharest, Romania;
14. **Alexandra Georgiana Moise**, Ecaterina Matei, Andreea Mitu, Ioana Andreea Gradinaru Luminita Mara, „Synthesis of magnetite nanoparticles used for selective heavy metals removal from industrial wastewater”, The International Symposium- SIMI 2013 "The Environment and the Industry", 28th-30th oct. 2013, Bucharest, p.24
15. Ioana Andreea Gradinaru, Ecaterina Matei, Andreea Mitu, **Alexandra Georgiana Moise**, Vasile Predica, Luminița Eleonora Mara, „Wastewater purification containing metal ions and organic compounds using activated carbon”, The International Symposium- SIMI 2013 "The Environment and the Industry", 28th-30th oct. 2013, Bucharest, p.24
16. Gheorghita Maria, Predica Vasile, Mara Eleonora Luminita, **Moise Georgiana**, Gradinaru Andreea, Mitu Andreea, Neagu Eleonora, Purcaru Victoria, „Advanced methods of heavy metal purification and recovery from mine waters", International Symposium "Priorities of Chemistry for a Sustainable Development" PRIOCHEM, ediția a-IX-a, 24-25 octombrie 2013, București –ROMANIA, ISBN-2345-3645.
17. Andreea Mitu, **Alexandra Georgiana Moise**, Ioana Andreea Grădinaru, „Innovative Ideas for Process Implementation in Sites Remediation”, 5th Edition, oct. 23-25, 2013, Sinaia, Romania.

Publications

- 1.M. Ulmanu, I. Anger, E. Gament, G. Plopeanu, M. Mihalache, L. Ilie, A. Gradinaru, **G.A. Moise**, "X- ray fluorescence portable instrument : a rapid and low cost alternative for heavy metals determination in soils", Metallurgy and New Materials Researches (Cercetări Metalurgice și de Noi Materiale), 2014, Vol. XXII, Nr. 4, pg. 29-39
- 2.Teodor Velea, Andreea Mitu, Andreea Grădinaru, **Georgiana Moise**, Luminita Mara, Cornel Frațilă, Mihai Ghiță, Valentin Drăguț, " Research on methods of treating mine water generated from exploitation of Roșia Poieni, Romania", Romanian Journal of Mineral Deposits, 30-31 May, 2014, Romania, ISSN 1220-5648,(2014), Vol. 87, nr.1, pp.75-78. Ed. IGR, 2014, București, Romania.

List of participating / national / international projects

- 1.Contract research: 3 / 04.02.2015-*Research study on copper recovery technologies from mine water (acidic) specific to mining, SC IPROMIN SA;*
- 2.Contract Research: 22 / 22.05.2015-*Technological study to develop a feasibility study on copper recovery of from acidic mine waters as copper sulphide, SC IPROMIN SA;*
- 3.Contract Research: PN 09 24 01 08- *Advanced mine water purification processes of non-ferrous and rare metals mining;*
- 4.Contract Research: PN 09 24 01 09-*Proliferation of non-conventional processes in the metallurgical industry minieroferrous and rare metals; applying methods of treatment in a microwave field;*
- 5.Contract research: PN 09 24 01 11-*Unconventional treatment procedures for waste water containing non-ferrous metals mining and metallurgy;*
- 6.Contract research: PN 09 24 01 12-*New technologies to reduce environmental pollution from non-ferrous metallurgy of contaminated sites through the use of eco-efficient primary and secondary mineral waste;*
- 7.Contract research: PN 24N/2005/Ad.3/2014-*Osteoconductive and biocompatible thin layers based on ZrO₂ doped TiO₂ for dental implantology;*
- 8.Contract research: PN 09 24 01 14-*Critical metals recovery from spent magnets (NdFeB);*
- 9.Contract research: PN 16 20 01 01- *New technological concept for obtaining and revaluing iron as magnetic oxides or as electrolytically ultrapure iron from waste waters and impure industrial iron wastes;*
10. Contract research: PN 16 20 01 02-*Minimizing the risk of environmental pollution with toxic and dangerous metal compounds present in industrial wastes of closed chemical plants: chromium disposal and recovery;*
11. Contract research: NASIPONAC-7074/2013, FP7 ERA-NET MANUNET / 2012-*New approached for SiC and Si₃N₄ obtaining via polymer nanocomposites and their use for structural ceramics;*
12. Contract research: 78/2014, WATOPREM-PN-II-PCCA-2013-4-0177-*Preliminary experimental model for treatment of red mud in order to obtain precursors ceramic foams;*
13. Contract research: 122/2012, AMELSOL Project PN-II-PT-PCCA-2011-3.2-0807-*Improvement of the acidic soils using the metallurgical industry waste;*
14. Contract research: 16/2016 (UEFISCDI), financed by ERAMIN Program (2016 – 2019)-*Recognition of microbial functional communities and assessment of the mineralizing potential (bioleaching) for high-tech critical metals;*
15. Contract research financed by National Authority for Scientific Research and Innovation by Plan Sectorial Program, 2015 – 2016-*Defining strategic directions for research relaunch in the field of exploitation and valorisation of the primary and secondary non-energy mineral resources;*
16. Contract research: 689515/2015, financed by Horizon 2020 Program (2016 – 2018)-*Integrated innovative metallurgical system to benefit efficiently polymetallic, complex and low grade ores and concentrates.*

List of patent applications filed with OSIM

Patents invention required

1. Velea Teodor, **Moise Alexandra-Georgiana**, Mara Luminița, Grădinaru Andreea-*"Process for producing iron oxides with magnetic properties of acid mine waters"* A0048/2015 Date of Submission: 08/07/2015;
2. Velea Teodor, Mara Eleonora-Luminita, Predica Vasile, Sarbu Andrei, Gheorghita Maria, Gherghe Sandica-Liliana, Badilita Viorel, Dragut Valentin, Stoiciu Florentin, Ghita Mihai, Gradinaru Ioana Andreea, Mitu Andreea, **Moise Alexandra-Georgiana**, Enache Lenuta, Ciripoiu Anita-Laura, Zaharia Anamaria, *"The process for purifying mineral magnesium silicates natural type"* A / 0762 / 10.22.2013- Date of publishing-Nr. 1021600/05.30.2016

Fairs and exhibitions

1. Bucharest International Technical Fair, Romanian Research Fair Romexpo 2015, 14-17 octombrie 2015, "NUCLEU" Programme: guarantee the rapid growth of young researchers competitiveness"
2. Bucharest International Technical Fair, Romanian Research Fair Romexpo Romexpo 2015, 14-17 octombrie 2015 "Advanced researches in resources efficiency and raw materials"
3. Bucharest International Technical Fair, Romanian Research Fair Romexpo 15 to 18 October, 2014 "Nanomagnets used to purify industrial wastewater Advanced containing heavy metals"
4. International Technical Fair Bucharest, Romanian Research Fair Romexpo 2014 15 to 18 October, 2014 "Technology to improve acidic soils using steelworks slag (LF)"

WORKSHOP

1. Workshop „New approaches for SiC and Si₃N₄ obtaining via polymer nanocomposites and their use for structural ceramics”- NASIPONAC - National Research Institute for Chemistry and Petrochemistry- ICECHIM Bucharest- Romania, 14-16 October 2015-Autorii:Teodor Velea, Luminita Mara, Liliana Gherghe, Georgiana Moise, Gradinaru Andreea
2. Workshop: "Advances in ceramic powder production and characterization", Istanbul, Turkey- Obtaining of mesoporous silica with reduced Iron content from waste serpentinite ore-02 April 2015-Autorii:Teodor Velea, Luminita Mara, Liliana Gherghe, Georgiana Moise, Valentin Dragut;
3. Workshop: "Challenges in the obtaining of new ceramic powders starting from inorganic-organic nanocomposites", București, Romania 10-11 Oct. 2013- Teodor Velea, Luminita Mara, Liliana Gherghe, Georgiana Moise, Andreea Gradinaru, Vasile Predica, "Obtaining of mesoporous silica with reduced iron content"

Awards:

- 1.1st prize with "Water quality monitoring" project TRIPOD, Polytechnic University of Bucharest, August 2012;
- 2.3rd prize at Student Scientific Session at Materials Science & Engineering Faculty, Environmental Engineering-“Renewable energy-geothermal” (May 2012- Bucharest)
- 3.2nd prize at Student Scientific Session of Materials Science & Engineering Faculty Environmental Engineering-“Toxic metals behavior in aqueous systems” (May 2010 -Bucharest);
- 4.2nd prize at National Session of Scientific Communication Students "Toxic metal pollution and environmental impacts" (April 2010-Alba Iulia);
- 5.1st prize at the contest „Multicultural school-GTP level projects ", December 2008-Buzau;
- 6.Diploma work at international project-” GTP-Global Teenager Project” (2006-2007-Buzau);
- 7.Training certificate and diploma for volunteering in the project” Be yourself! “Of the Association for Promoting Access and Equal Opportunities (APASE) -2007-Buzau ;
- 8.Volunteering Diploma Programme 2006-2007 school year SNAC- Buzau;
- 9.Diploma "Best GTP School" -2006-2007-Buzau;
10. 1st prizes at county contests in mathematics, Epsilon "- March 2006, March 2007-Buzau;
11. Diploma in Mathematics Competition "Boris Capsa" - January 2006-Buzau.