

**PERSONAL INFORMATION**

Ioana, Andreea CHIREA (GRADINARU),



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Gender: Female | Date of birth: 11 April 1990 | Romanian nationality.

**PROFESSIONAL EXPERIENCE**

01.11. 2015-present	Scientific research INCDMNR-INMR, 102 Biruinței Blvd, Pantelimon, ILFOV (Romania)
01.11. 2013-31.10.2015	Scientific research assistant-engineer INCDMNR-INMR, 102 Biruinței Blvd, Pantelimon, ILFOV (Romania)
01.04 - 31.10. 2013	Technician INCDMNR-INMR, 102 Biruinței Blvd, Pantelimon, ILFOV (Romania)

**EDUCATION AND TRAINING**

Period Qualification / diploma Principal subjects / occupational skills Name and address of employer / training provider	01.Oct. 2015 - present PhD student Materials Science and Engineering Polytechnic University of Bucharest, Faculty of Materials Science and Engineering, Doctoral School of Materials Science and Engineering
Period Qualification / diploma Principal subjects / occupational skills Name and address of employer / training provider	2013 - 2015 Master's degree - EQF level 7 Purification of industrial effluents ecological theory; Metallurgical effluent treatment equipment; Polytechnic University of Bucharest, Faculty of Materials Science and Engineering, specialization: Engineering and Environmental Protection in Industry.
Period Qualification / diploma Principal subjects / occupational skills Name and address of employer / training provider	Apr. 2015 - Jul.2015 European Credit Transfer and Accumulation System (ECTS) preparation for Bachelor's degree Program ERASMUS Ingénierie des systèmes polymers Université Lille 1- Sciences et Technologies, Lille, France
Period Qualification / diploma Principal subjects / occupational skills Name and address of employer / training provider	2009 - 2013 Bachelor's degree - EQF level 6 Purification of industrial effluents ecological theory; Technology characterization and analysis of pollutants; Metallurgical effluent treatment equipment; Control between pollutants and environmental impact; Dispersion and pollutant emission monitoring; Metallurgical environmental management. Polytechnic University of Bucharest, Faculty of Materials Science and Engineering, specialization: Engineering and Environmental Protection in Industry.
Period Qualification / diploma Name and address of employer / training provider	15-18 march 2013 Training certificate "Experimental techniques in material science" INCDMNR-INMR, 102 Biruinței Blvd, Pantelimon, ILFOV (Romania)

Period From 2009 to 2011  
 Qualification / diploma Graduate of the Teacher Training Course.  
 Principal subjects / occupational skills Education;  
 Name and address of employer / Computer Aided Training (CAT).  
 training provider Polytechnic University of Bucharest, Faculty of Materials Science and Engineering

Other Specializations and Qualifications Participation Certificate -The 2nd International Summer School "Investigations in New geomatics technologies for geospatial phenomena", USAMV; Graduating Teacher Training Course, UPB; Certificate of training "Experimental Techniques in Materials Science" INCDMNR-IMNR; Certificate of Practice issued by the INCDMP.

## PERSONAL COMPETENCE

Language (s) default (s) Romanian

Other Languages	Perception		Speaking		Writing
	Listening	Reading	Conversation	Spoken interaction	
English	C1	C1	B2	B2	B2
Spanish	B2	B2	B1	B1	B1
French	A2	A2	A1	A1	A1

Communication Skills Sociable, communicative, rapid integration into new collective, positive thinking;  
 Team spirit: teamwork we experienced since high school when I participated in the alleged activities of practical and research projects conducted within the school and in college, I was part of team handball school;

Organizational skills / management Organizational skills.  
 School board member of the Materials Science and Engineering.

Skills Good command of Pascal programming language;  
 Proficiency in designing and writing computer: Oracle, Microsoft Office, AutoCAD, Mathcad;  
 Certified professional skills, computer skills.

Artistic skills and competences Passionate about photography and drawing.  
 Driving license Category B.

## ADDITIONAL INFORMATION

References
 

1. Training certificate and diploma making the internship, during 21.05-03.08 2012 in the National Institute of Research - Development for Environmental Protection - INCDPM.
2. Performing research in laboratories of the National Institute of Research - Development for Environmental Protection in ROMOMED project, "Monitoring the environmental impact of the works to improve navigation conditions on the Danube between Calarasi and Braila, km 375 - km 175".
3. Participation in scientific sessions of students, academics Polytechnic, May 2010, 2011, 2012, 2013;
4. Certificate for professional skills on the computer, May, 2009.
5. Training certificate and diploma for volunteering in a non-governmental youth organization dealing with intercultural projects against smoking and participation in other projects of this kind.

Member in Professional Associations Chemistry Society of Romania;  
 Geological Society of Romania.

**ANNEXES**

1- List of participation on national/international conference/symposiums (7 conference with 23 papers presented), list of participation in national/international programs/projects (15 national projects, 3 international projects, patents (2 pending and 1 published), list of publications (3 in ISI journals and 17 in journals/ specialty volumes without ISI, workshops participations (9), books / published chapters (1 article published in a book), international fairs and expositions (3), awards (4).

### LIST OF PARTICIPATION ON NATIONAL/INTERNATIONAL CONFERENCE/SYMPIOSIUMS/TRADE SHOWS

1. A. Chirea, T. Velea, C. Predescu, I. Calinescu, L. Mara, V. Predica, G. Moise, L. Gherghe, M. Ghita, V. Dragut, "Microwave-Assisted Leaching of Chalcopyrite Concentrate in Ferric Sulphate Media", the 6th International Conference on Materials Science and Technologies – RoMat 2016", 9-12 November 2016, Bucharest, Romania.
2. A.G. Moise, T. Velea, C. Predescu, L. Mara, A. Chirea, V. Predica, L. Gherghe, C. Rusti, V. Dragut, "Technological Process of Iron Recovery From Mining and Metallurgical Industry Effluents", the 6th International Conference on Materials Science and Technologies – RoMat 2016", 9-12 November 2016, Bucharest, Romania.
3. Andreea Ioana Chirea, Teodor Velea, Eleonora Luminița Mara, Alexandra Georgiana Moise, Vasile Predica, Dumitru Valentin Drăguț, Mihai Ghiță, Ana Maria Mociuiu, "Research on Complex Characterization of Hazardous Chemical Wastes Containing Chromium", the 19th edition of International Symposium "Environment and Industry", 13-14 October 2016, Bucharest, Romania.
4. Alexandra-Georgiana Moise, Teodor Velea, Luminița Mara, Ioana Andreea Chirea, Vasile Predica, Daniel-Cristian Mihăiescu, Valentin Draguț, Mihai Ghiță, "Complex Characteristics Evaluation of Different Types of Wastes Containing Iron Regarding the Environment Impact of Their Storage", the 19th edition of International Symposium "Environment and Industry", 13-14 October 2016, Bucharest, Romania.
5. T. Velea, G. Moise, A. Grădinaru, L. Mara, 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.
6. GRĂDINARU Ioana Andreea, VELEA Teodor, NADIM Abdelouahab, BOUBERKA Zohra, MASCHKE Ulrich, "Photo-degradation study of polybrominated organic compounds", 11th Edition of International Symposium "Priorities of Chemistry for a Sustainable Development" PRIOCHEM, Bucharest, ROMANIA, 29-30 Oct. 2015, ISBN-2345-3645.
7. 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.
8. 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 pretreatment 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.
9. S. Benmbarek, I.A. Gradinaru, A. Nadim, U. Maschke, M. Kallel, Z. Boubberka, "Abatement of polychlorinated biphenyls (pcb) by UV-visible irradiation", Journées Nord-Ouest Européennes des Jeunes Chercheurs- JNOEJC 2015, 11-12 May, 2015, Rouen, France.
10. S. Benmbarek, I.A. Gradinaru, A. Nadim, Z. Boubberka, M. Kallel, U. Maschke, "Reductive dechlorination of Polychlorinated biphenyls (PCB) by UV-visible", Troisième journée des jeunes polyméristes du nord, 04 Jun., 2015, Lille, France.
11. I.A. Gradinaru, S. Ben Mbarek, A. Nadim, Z. Boubberka, U. Maschke, "Degradation of polybrominated additives in polymer matrices", Troisième journée des jeunes polyméristes du nord, 04 Jun., 2015, Lille, France.
12. 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", 9th INTERNATIONAL SYMPOSIUM OF ECONOMICAL GEOLOGY "Mineral Resources Odyssey", 30-31 May, 2014, Bucharest, Romania.
13. Andrei Sârbu, Anita-Laura Radu, Luminita Mara, Victor Fruth- Oprisan, Teodor Velea, Ioana Andreea Grădinaru, Anamaria Zaharia, Alexandra Sorina Garea, Celina Damian, Hasan Mandal, Ferhat Yardim, "Ceramic powder obtained via hybrid inorganic-organic polymer nanocomposites", Shechtman International Symposium, 29 Jun.-04 Jul. 2014, Cancun, Mexic.
14. T. Velea, D. Morin, V. Predica, L. Gherghe, L. Mara, G. Moise, A. Gradinaru, A. Varna, "Biomining: lead concentrates oxidation", Shechtman International Symposium, Cancun, 2014, 29 Jun.-4 Jul., Mexic.
15. T. Velea, G. Moise, A. Grădinaru, A. Mitu, V. Badilita, V. Fruth, C. Munteanu, "Production, characterization and application of nanosized iron oxide in metallurgical and mining industry" International Symposium "Priorities of Chemistry for a Sustainable Development" PRIOCHEM, 10th Edition, 24-25 Oct. 2014, Bucharest, Romania, ISBN-2345-3645.
16. 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", International Symposium "Priorities of Chemistry for a Sustainable Development" PRIOCHEM, 10th Edition, 24-25 Oct., 2014, Bucharest, Romania, ISBN-2345-3645.
17. 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", International Symposium "Priorities of Chemistry for a Sustainable Development" PRIOCHEM, 10th Edition, 24-25 Oct., 2014, Bucharest, Romania, ISBN-2345-3645.
18. 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", 28-30 Oct. 2013, Bucharest, Romania.
19. Ghita Mihai, Mara Luminita, Stoiciu Florentin, Badilita Viorel, Enache Lenuta, Gradinaru Andreea, Dragut Valentin, "Characterization of Serpentinite Dumped from Dubova-Mehedinti Regarding Complete Recovery through Sustainable Environmental Technology", The International Symposium- SIMI 2013 "The Environment and the Industry", 28-30 Oct. 2013, Bucharest, Romania.
20. Dragut Valentin, Mara Luminita, Badilita Viorel, Stoiciu Florentin, Gradinaru Andreea, Enache Lenuta, Neagu Eleonora, Soare Victoria, "Researchers regarding the Effect of Dry Grinding and Thermal Dehydroxilation on Serpentinite Dubova-Mehedinti, Romania", The International Symposium- SIMI 2013 "The Environment and the Industry", 28-30 Oct. 2013, Bucharest, Romania.
21. Participare la conferința națională „Innovative Ideas for Process Implementation in Sites Remediation”, 5th Edition, Oct. 23-25, 2013, Sinaia, Romania.
22. 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-30 Oct. 2013, Bucharest, Romania.

23. 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 , 9th Edition, 24-25 Oct. 2013, Bucharest, Romania, ISBN-2345-3645.

#### LIST OF PARTICIPATION IN NATIONAL/INTERNATIONAL PROGRAMS/PROJECTS

1. “Advanced purification processes of mining waters from nonferrous and rare metals mining industry”, Project no. PN 09 24 01 08, financed by Romanian Program NUCLEUS (2013), participant.
2. “Unconventional procedures for intensification of processes in the mining-metallurgical industry of non-ferrous and rare metals; application processes for treatment in the microwave field”, Project no. PN 09 24 01 09, financed by Romanian Program NUCLEUS (2013 - 2014), participant.
3. “New approach for SiC and Si<sub>3</sub>N<sub>4</sub> obtaining via polymer nanocomposites and their use for structural ceramics”, Research contract: 7-074/2013, FP7-ERA NET- MANUNET/2012, (2013-2015), participant.
4. “Unconventional methods of purifying waste water containing nonferrous metals from mining and metallurgy industry”, Project no. PN 09 24 01 11, financed by Romanian Program NUCLEUS (2014 - 2015), participant.
5. “Biocompatible and osteoconductive thin films on ZrO<sub>2</sub> doped TiO<sub>2</sub> for dental implantology”, Project no. PN 09 24 02 05, financed by Romanian Program NUCLEUS (2014 - 2015), participant.
6. “New ecological technologies to reduce pollution degree from contaminated sites from nonferrous metallurgy by eco-efficient using of primary and secondary mineral resources”, Project no. PN 09 24 01 12, financed by Romanian Program NUCLEUS (2014 - 2015), participant.
7. “Recovery of critical metals from spent magnets”, Project no. PN 09 24 01 14, financed by Romanian Program NUCLEUS (2015), participant.
8. “Research study on copper recovery technologies from mine water (acidic) specific mining”, Agreement no. 3/04.02.2015, research contract with SC IPROMIN SA, participant.
9. “Technology on the recovery of useful elements from Bicapa Tarnaveni wastes platform”, Agreement no. 362/22.09.2015 research contract with SC Wastes Ecotech SRL, participant.
10. “Analysis of mineral reactivity towards SO<sub>2</sub>”, Agreement no. 337/17.02.2015, research contract with MIR Foundation
11. „Waste water treatment by flocculation-oxidation processes mediated of flocculants and catalysts derived from red mud” – WATOPREM, Project no. 78/2014, financed by Romanian Program Partnership in priority fields (2014 – 2016), participant.
12. “Defining strategic directions for research relaunch in the field of exploitation and valorisation of the primary and secondary non-energy mineral resources”, financed by National Authority for Scientific Research and Innovation by Plan Sectorial Program, 2015 – 2016, participant.
13. “Minimizing the risk of environmental pollution with toxic and dangerous metal compounds present in industrial wastes of closed chemical plants: chromium disposal and recovery”, Project no. PN 16 20 01 02, financed by Romanian Program NUCLEUS (2016-2017)- project responsible.
14. “New eco-efficient and sustainable technological concept on revitalisation of abandoned industrial landfills by immobilizing compounds containing heavy metals”, Project no. PN 16 20 01 03, participant.
15. “Macroscopic graphene films. Wet obtaining and surface architecture evaluation, Project no. PN 16 01 03 03, participant
16. „New technological concept for obtaining and revaluing iron as magnetic oxides or electrochemically ultrapure iron from waste waters and impure industrial iron wastes”, Project no. PN 16 20 01 01, financed by Romanian Program NUCLEUS (2016 - 2017), participant.
17. “Recognition of microbial functional communities and assessment of the mineralizing potential (bioleaching) for high-tech critical metals”, Contract number 16/2016 (UEFISCDI), financed by ERAMIN Program (2016 – 2019), participant.
18. “Integrated innovative metallurgical system to benefit efficiently polymetallic, complex and low grade ores and concentrates”, Contract number 689515/2015, financed by Horizon 2020 Program (2016 – 2019), participant.

#### PATENTS (PENDING / EXAMINED)

1. Velea Teodor, Mara Eleonora-Luminita, Predica Vasile, Sarbu Andrei, Gheorghita Maria, Gherghie 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, „Process for purification of magnesium minerals, such as natural silicates”, Patent no. RO130172 (B1).
2. Velea Teodor, Moise Alexandra-Georgiana, Mara Luminita, Gradinaru Andreea “ Process for the preparation of magnetic properties iron oxide from acid mine drainage waters”, Submitted to OSIM on 08.07.2015 no. RO131633 (A2).
3. Sârbu Andrei, Sandu Teodor, Zaharia Anamaria, Apostol Steluța, Zavoianu Rodica, Mara Eleonora Luminita, Sârbu Liliana, Bacalum Fânica, Bîrjega Ruxandra, Vizireanu Sorin, Olaru Andreea Gabriela, Cosașu Dan, Velea Teodor, Gradinaru Ioana Andreea, Radu Anita Laura, Florea Mihaela, Cojocaru Bogdan Eugen, Drăguț Valentin, Iordache Tanța Verona, Florea Ana mihaela, „Process for ceramic foams preparation based on red mud”, Submitted to OSIM on 25.02.2015, no. RO131328 (A2).

#### LIST OF PUBLICATIONS

##### Papers published in ISI journals (national and international)

1. Andrei Sârbu, Anita-Laura Radu, Luminita Mara, Victor Fruth- Oprisan, Teodor Velea, Ioana Andreea Gradinaru, Anamaria Zaharia, Alexandra Sorina Garea, Celina Damian, Hasan Mandal, Ferhat Yardim, “Ceramic powder obtained via hybrid inorganic-organic polymer nanocomposites”, COMPOSIT, CERAMIC, QUASY-CRYSTALS, NANOMATERIALS, HIGH TEMPERATURE PROTECTION COATINGS, Vol. 5, FLOGEN, 2014, ISBN CD Set: 978-1-987820-11-9, ISSN: 2291-1200 (Metals and Materials Processing in a Clean Environment Series).

2. 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*, 2014, Vol. XXII, No. 4, p. 29-39
3. Anger, T. Velea, L. Mara, A. Gradinaru, B. Andrei, V. Fruth-Oprisan, C. Munteanu, E. Neagu, V. Badilita, F. Stoiciu, „Characterization of fly ash and its ability to uptake lead from aqueous solutions”, *Romanian Materials Journal*, (ISSN 1583-3180), (submitted for publication).

#### Scientific papers (technical) published in journals/ speciality volumes without ISI

1. Andreea Ioana Chirea, Teodor Velea, Eleonora Luminița Mara, Alexandra Georgiana Moise, Vasile Predica, Dumitru Valentin Drăguț, Mihai Ghiță, Ana Maria Mociuiu, "Research on Complex Characterization of Hazardous Chemical Wastes Containing Chromium", *Proceeding of the 19th edition of International Symposium "Environment and Industry"*, 13-14 October 2016, Bucharest, Romania.
2. Alexandra-Georgiana Moise, Teodor Velea, Luminița Mara, Ioana Andreea Chirea, Vasile Predica, Daniel-Cristian Mihăiescu, Valentin Draguț, Mihai Ghiță, "Complex Characteristics Evaluation of Different Types of Wastes Containing Iron Regarding the Environment Impact of Their Storage", *Proceeding of the 19th edition of International Symposium "Environment and Industry"*, 13-14 October 2016, Bucharest, Romania.
3. GRĂDINARU Ioana Andreea, VELEA Teodor, NADIM Abdelouahab, BOUBERKA Zohra, MASCHKE Ulrich, "Photo-degradation study of polybrominated organic compounds", *Proceeding - 11<sup>th</sup> Edition of International Symposium "Priorities of Chemistry for a Sustainable Development" PRIOCHEM*, Bucharest, Romania, 29-30 Oct. 2015, ISBN-2345-3645.
4. Mara Luminita, Moise Georgiana, Gradinaru Andreea, Gherghel Liliana, Mihaiescu Daniel, Capota Petre, Purcaru Victoria, "Investigation of rare Earth metals leaching process for neodymium recovery from scrap Nd-Fe-B Magnets", *Proceeding - 11<sup>th</sup> Edition of International Symposium "Priorities of Chemistry for a Sustainable Development" PRIOCHEM*, Bucharest, Romania, 29-30 Oct. 2015, ISBN-2345-3645.
5. 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 pretreatment on the separation process in wet medium of the mesoporous silica with low iron content from serpentinite minerals", *Proceeding - 11<sup>th</sup> Edition of International Symposium "Priorities of Chemistry for a Sustainable Development" PRIOCHEM*, Bucharest, Romania, 29-30 Oct. 2015, ISBN-2345-3645.
6. S. Benmbarek, I.A.Gradinaru, A. Nadim, U.Maschke, M.Kallel, Z.Bouberka, "Abatement of polychlorinated biphenyls (pcb) by UV-visible irradiation", *Proceeding - Journées Nord-Ouest Européennes des Jeunes Chercheurs- JNOEJC 2015*, 11-12 May, 2015, Rouen, France;
7. S. Benmbarek, I.A.Gradinaru, A. Nadim, Z. Bouberka, M. Kallel, U. Maschke, "Reductive dechlorination of Polychlorinated biphenyls (PCB) by Uv-visible", *Proceeding- Troisième journée des jeunes polyméristes du nord*, 04 Jun., 2015, Lille, France.
8. I.A. Gradinaru, S. Ben Mbarek, A. Nadim, Z. Bouberka, U. Maschke, "Degradation of polybrominated additives in polymer matrices", *Proceeding- Troisième journée des jeunes polyméristes du nord*, 04 Jun, 2015, Lille, France.
9. 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 Rosia Poieni, Romania*, *Romanian Journal of MINERAL DEPOSITS*, 30-31 May, 2014, Romania, ISSN 1220-5648,(2014), Vol. 87, no.1, p.75-78.
10. T. Velea, G. Moise, A. Grădinaru, A. Mitu, V. Badilita, V. Fruth, C. Munteanu, „Production, characterization and application of nanosized iron oxide in in metallurgical and mining industry” *Proceeding of International Symposium „Priorities of Chemistry for a Sustainable Development” PRIOCHEM* , 10th Edition, 30-31 Oct., 2014, Bucharest, Romania, ISBN-2345-3645.
11. 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", *International Symposium „Priorities of Chemistry for a Sustainable Development” PRIOCHEM* , 10th Edition, 30-31 Oct., 2014, Bucharest, Romania, ISBN-2345-3645;
12. 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", *International Symposium „Priorities of Chemistry for a Sustainable Development” PRIOCHEM* , 10th Edition, 30-31 Oct., 2014, Bucharest, Romania, ISBN-2345-3645.
13. Gheorghita Maria, Predica Vasile, Mara Eleonora Luminița, Moise Georgiana, Grădinaru Andreea, Mitu Andreea, Neagu Eleonora, Purcaru Victoria, „Advanced methods of heavy metal purification and recovery from mine waters", *Proceedings of International Symposium "Priorities of Chemistry for a Sustainable Development" PRIOCHEM* , 10th Edition, 24-25 Oct., 2014, Bucharest, Romania, ISBN-2345-3645.
14. 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”, *Proceedings The International Symposium- SIMI 2013 "The Environment and the Industry"*, 28-30 Oct. 2013, Bucharest, Romania, p.24.
15. Ghita Mihai, Mara Luminita, Stoiciu Florentin, Badilita Viorel, Enache Lenuta, Gradinaru Andreea, Dragut Valentin, "Characterization of Serpentinite Dumped from Dubova-Mehedinti Regarding Complete Recovery through Sustainable Environmental Technology", *Proceedings The International Symposium- SIMI 2013 "The Environment and the Industry"*, 28-30 Oct. 2013, Bucharest, Romania, p.26.
16. Dragut Valentin, Mara Luminita, Badilita Viorel, Stoiciu Florentin, Gradinaru Andreea, Enache Lenuta, Neagu Eleonora, Soare Victoria, "Researchers regarding the Effect of Dry Grinding and Thermal Dehydroxilation on Serpentinite Dubova-Mehedinti, Romania", *Proceedings The International Symposium- SIMI 2013 "The Environment and the Industry"*, 28-30 Oct. 2013, Bucharest, Romania, p.25.
17. 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”, *Proceedings The International Symposium- SIMI 2013 "The Environment and the Industry"*, 28th-30 Oct. 2013, Bucharest, Romania, p.24.

**WORKSHOPS**

1. Teodor Velea, Liliana Gherghe, Andreea Chirea, Georgiana Moise, Vasile Predica, Florentin Stoiciu, "Strategic directions and priority objectives for research, development and innovation in the field of mineral resources containing ferrous metals", WORKSHOP "Valorisation of primary and secondary resoucers of non-ferrous and rare metals in high-tech applications", 14 October 2016, Romexpo, Bucharest, Romania.
2. Velea, L. Mara, L. Gherghe, A. Gradinaru, G. Moise, D. Mihaiescu, V. Dragut, F. Stoiciu, Workshop "Obtaining of mesoporous silica with reduced iron content from waste serpentinite ore. Recovery/valorisation of other predominant metal elements" în cadrul proiectului "New approached for SiCand Si3N4obtaining via polymernanocomposites and their use for structural ceramics", 15 Oct., 2015, Bucharest, Romania.
3. Teodor Velea, Luminita Mara, Andreea Gradinaru, Viorel Badilita, Victor Fruth, " Researches regarding to obtain mesoporous silica from waste serpentinite rocks" Workshop " Advanced in ceramic powder ob-taining via polymer composites" involved in the project "New approached for SiC and Si3N4 obtaining via polymer nanocomposites ad thei use for structural ceramics", June 02, 2014, Eskisehir, Turkey.
4. A. Gradinaru, A. Mitu, G. Moise, Participation in the framework of the second edition of the International Summer School " New geomatics technologies for investigations in geospatial phenomena"-Bucharest, September 15-24, 2014.
5. L. Mara, G. Moise, A. Gradinaru, A. Mitu, Participation in the framework of the 10<sup>th</sup> edition of the International Symposium "Priorities of Chemistry for a Sustainable Development", PRIOCHEM, WORKSHOP "Innovative Bio-Economy", 31 Oct. 2014.
6. L. Mara, G. Moise, A. Gradinaru, A. Mitu, Participation in the framework of the 10<sup>th</sup> edition of the International Symposium "Priorities of Chemistry for a Sustainable Development", PRIOCHEM, WORKSHOP "Agro-bio-economy-A Romanian approach", 31 Oct. 2014.
7. L. Mara, G. Moise, A. Gradinaru, A. Mitu, Participation in the framework of the 10<sup>th</sup> edition of the International Symposium "Priorities of Chemistry for a Sustainable Development", PRIOCHEM, WORKSHOP "Ecological products based on diatomaceous earth and essential oils for the rezidu-es and contaminants reduction from food chain ", 31 Oct. 2014.
8. L. Mara, G. Moise, A. Gradinaru, A. Mitu, Participation in the framework of the 10<sup>th</sup> edition of the International Symposium "Priorities of Chemistry for a Sustainable Development", PRIOCHEM, WORKSHOP "Biodegradable thermal insulating composite materials for buildings and industrial equipment", 31 Oct. 2014.
9. L. Mara, G. Moise, A. Gradinaru, A. Mitu, Participation in the framework of the 10<sup>th</sup> edition of the International Symposium "Priorities of Chemistry for a Sustainable Development", PRIOCHEM, WORKSHOP "Multifunctional and innovative products for seif and bioenhanced functional food from newly cultivated plants in Romania", 31 Oct. 2014.

**BOOKS / PUBLISHED CHAPTERS**

1. Metals and Materials Processing in a Clean Environment Series Edited by Florina Kongoli, FLOGEN, 2014, ISBN: 978-1-987820-11-9, ISSN: 2291-1200; Volume 5: Composite, Ceramic, Quasi-Crystal, Nanomaterials, High Temperature Protection Coatings, „Ceramic powder obtained via hybrid inorganic-organic polymer nanocomposites”, Andrei Sarbu, Anita Laura Radu, Luminita Mara, Victor Fruth Oprisan, Teodor Velea, Ioana Andreea Gradinaru, Anamaria Zaharia, Alexandra Sorina Garea, Celina Damian, Hasan Mandal, Ferhat Yardim, p. 145-154.

**INTERNATIONAL FAIRS AND EXPOSITIONS**

1. Bucharest International Fair, Research Exhibition, Romexpo, October 14 - 17, 2015.
2. Bucharest International Fair, Research Exhibition, Romexpo, October 16 – 19, 2014.
3. Participation at "Salon of Eco-Technologies, Energy and Sustainable Development" POLLUTEC HORIZONS 2013 Paris, France, December 3 - 6, 2013.

**AWARDS**

1. First prize with the work „Sisteme de adsorbție pe bază de cărbune activ utilizate pentru reținerea ionilor metalici ", la sesiunea de comunicări științifice a studenților, at the Scientific Sessions of Students, May 2013.
2. First prize with the work "monitorizarea calității sedimentelor", the contest conducted in the project TRIPOD, Polytechnic University of Bucharest, Aug. 2012.
3. Mention the work "Energii regenerabile - Energia eoliană," at the Scientific Sessions of Students, Polytechnic University of Bucharest, Faculty of Materials Science and Engineering, May 2012.
4. Third Prize with his "Metode neconvenționale de tratare și purificare a apelor," at the Scientific Sessions of Students, Alba Iulia, 16-17 Apr. 2010.