



## Curriculum vitae Europass

### Personal information

Name /Surname **Radu, Aura, Daniela**

Address(es) Institutul National de Cercetare – Dezvoltare pentru Metale si Resurse  
Radioactive INCDMRR-ICPMRR Bucuresti, B-dul Carol I , nr.70 , sector 2 ,  
020917.

Phone (s) Fix: +40213152341 Mobil: +40 766949342

Fax(s) +40 213131258

E-mail(s) [daniela\\_aura\\_radu@yahoo.com](mailto:daniela_aura_radu@yahoo.com) – personal  
[danielaivanuta@gmail.com](mailto:danielaivanuta@gmail.com) - personal

Nationality (s) Romanian

Date of birth 13.06.1980

Sex Feminine

### Professional Experience

Period From November 2005 to present

Occupation or position held Scientific researcher III

Main activities and responsibilities Rare metals research, radioactive metals research, mine closing, water and soil decontamination, impact studies  
Perform chemical analysis of different media (surface water, waste water, minerals, rocks, technological solutions, etc..) By various methods (gravimetric, volumetric, spectrophotometry (UV-VIS) and Atomic Absorption Spectrometry (F-AAS). Participation form of homework collaboration of national and international programs.

Name and address of employer National Institute of Research - Development for Metals and Radioactive Resources - ICPMRR, Bd Carol I no. 70, sector 2, code 020917, Bucharest - Romania

Type of business or sector Research - development of mineral resources research and development activities, engineering and consulting resources radioactive metals and mineral resources

Period From August 2004 to March 2005

Occupation or position held production operator

Main activities and responsibilities Organization, production tracking

Name and address of employer S.C. INCOMEX SRL

Type of business or sector footwear production

Period From January 2003 to September 2003

Occupation or position held chemist

Main activities and responsibilities Precious metals recovery, testing a new product type colloidal gold for painting porcelain and glass

Name and address of employer

Type of business or

S.C. ALCO-METAL S.R.L

sector Wholesale of metals and metal ores

### Education and training



Social skills and competences	- Team spirit - Ability to adapt to different environments - Resistant to stress - Honesty, punctuality, reliability
Organisational skills and competences	- Participation and collaboration with other departments to projects of national and international programs - Participating in all phases of a cycle analysis
Technical skills and competences	- Good knowledge of management procedures and handling of precursors used in illicit manufacture of drugs (in October 2006 are responsible for managing and handling precursors) - Use laboratory equipment: UV-VIS spectrophotometer, flame atomic absorption spectrometer
Skills and computer use	- A good command of Microsoft Office tools (Word, Excel, Power Point) - Basic knowledge of graphics (Photoshop)
Artistic skills and competences	- Painting plaster figurines - Handcrafting (making jewelry)
Other skills and competences	- HR diploma inspector - Psychological and pedagogical certificate issued by the Academy of Economic Studies
Driving license	- Not applicable
<b>additional Information</b>	on demand

**Attachments** Appendix 1 - List of scientific and technical work performed (collaboration)  
Appendix 2 - List of published scientific articles

## Annex 1

### List of scientific and technical work performed

#### Collaborator work:

1. Level II environmental assessment of "Decommissioning nuclear reactor VVR-S Magurele and modernization DNDR STDR and treatment, conditioning and final disposal of radioactive waste from decommissioning" - 2006;
2. Environmental assessment Level I and II, Bicazul Ardelean, Neamt county. -2007
3. Sustainable energy technology to promote mineral resources, indigenous uranium, by optimizing the process of purifying uranium -2007
4. New technology for the separation of uranium by solvent extraction in the field of ultrasonic impact on reducing uranium contamination of the area surrounding - 2007
5. Research on the use of reactive barriers to wastewater treatment plants resulting from uranium ore processing-2007
6. Soil rehabilitation in areas of intensive mining methods and processing of radioactive ores in circumstances of natural disasters or accidents anthropogenic-2007
7. Solutions and procedures to address environmental and soil contaminated with radionuclides and heavy metals and renaturation heaps of uranium-2008 motors
8. Phytoimmobilization of heavy metals and / or radioactive materials in the environmental remediation-2008
9. Clean coal desulphurization technology to reduce SO<sub>2</sub> emissions from power plants, burning in 2005-2008
10. Ecogeochemistry large urban and suburban areas in the context of sustainable development - 2006;
11. Environmental impact generated by the prospecting / geological exploration of uranium ore Lupşa – Valea Caselor, Alba County -2007;
12. Environmental impact generated by the prospecting / geological exploration of uranium ore perimeters Poiana Marului and Venetia, Brasov - 2007
13. Radiological risk assessment in the perimeters of prospecting / geological exploration abandoned. Perimeter Garda Alba County - 2006
14. Radiological risk assessment in the perimeters of prospecting / geological exploration abandoned. Perimeter Lupşa - Valley House, Alba County
15. Radiological risk assessment in the perimeters of prospecting / geological exploration abandoned. Perimeters Garda, Poiana Marului and Venetia - 2007
16. Quantification of environmental pollution in the perimeters of prospecting / exploration geological uranium ore. Case study: exploration perimeter Stoenesti, Arges county - 2009
17. Study on water radioactivity in Timisoara - 2009.
18. PN 06 February 21 02 Phytoimmobilization of heavy metals and / or radioactive materials in the environmental remediation
19. CEEX 606 coal desulphurization clean technology to reduce SO<sub>2</sub> emissions from power plants burning in
20. Program MENER / solutions and procedures to address ecological soil and water contaminated with radionuclides and heavy metals and uranium renaturation heaps of motors
21. CEEX 113 and metal recovery technologies of waste plastics and telecommunications equipment
22. Technical design of the mine closure and ecological Dobra East - Pond Cetatua II - Detailed Assessment of radiological safety
23. Sustainable energy technology to promote indigenous uranium mineral resources by optimizing the process of purifying uranium - Tedepur
24. Research on the use of reactive barriers to treat wastewater from uranium ore processing plants -Urtech
25. Developing technology for processing uranium ore in the Eastern Carpathians based on new technical concepts and

strategic economic restructuring and efficiency of uranium mining in Romania, in order to process nuclear fuel from domestic sources for Cernavoda NPP, C 018/2001- 2004

26. New technology for purification of uranium by liquid-liquid extraction in ultrasonic field, with positive impact on reducing uranium contamination by stable emulsions

## Annex 2

### List of scientific articles published

1. M.M. Mona, **AD Ivanuta**, A. Vintila, A. Botez (2006)-The advantages of using spectral CsCl/LaCl<sub>3</sub> buffer in flame atomic absorption analysis, Journal Bulletin Mineral Resources, no. 1, 2006, pag.75-78, **ISSN 1842-290**
2. Uranium soils decontamination by washing method, Aura Daniela Radu, Alexandru Woinaroschy, Eugenia Panțuru, Antoneta Filcenco - Olteanu, U.P.B. Sci. Bull., Series B, 75, 4, 13-22, 2013
3. Uranium Extraction in Ultrasound Field from Contaminated Soils, **Aura Daniela Radu**, Alexandru Woinaroschy, Eugenia Panțuru, Revista de Chimie, 65, 4, 470-474, 2014, **ISI Factor de impact 0,810**
4. Sensitivity analysis for uranium soils decontamination using a Monte Carlo simulation, Alexandru Woinaroschy, **Aura Daniela Radu**, Environmental Engineering and Management Journal, 13, 17, 1817-1825, 2014, **ISI Factor de impact 1,258**
5. Experimental design and process optimization for uranium polluted soil by acid washing, **Aura Daniela Radu**, Eugenia Panțuru, Alexandru Woinaroschy, Raluca Isopescu, Water, Air and Soil Pollution Journal, 226, 5, 1-11, 2015, **ISI Factor de Impact 1,685**
6. Radioactive soils decontamination using mushrooms, **Aura Daniela Radu**, Alexandru Woinaroschy, Eugenia Panțuru, Antoneta Filcenco – Olteanu, Revista de Chimie, acceptat spre publicare în volumul 67/ 7 / 2016 (adeverință Nr. 184/ 27.08.2015), **ISI IF 0,810**
7. **Aura Daniela RADU**, Alexandru WOINAROSCHY, Eugenia PANȚURU, Antoneta FILCENCO-OLTEANU, „Uranium soils decontamination by washing method”, U.P.B. Sci. Bull., Series B, Vol. 75, Iss. 4, 2013
8. Antoneta Filcenco–Olteanu, Tanase Dobre; Eugenia Panturu, **Aura Daniela Radu**, A., Akcil, Experimental process analysis and mathematical modelling for selective gold leaching from slag through wet chlorination, Hydrometallurgy, 144–145, p.170–185, 2014, **ISI IF 2.85**

