



Europass Curriculum Vitae



Personal information

Surname(s) / First name(s) **Roman / Cecilia**
Address(es) Piata Abator, bl.B, ap. 5, 400137 Cluj-Napoca, Romania
Telephone(s) +40264420590 Mobile +40755038705
Fax(es)
E-mail cecilia.roman@icia.ro, cici_roman@yahoo.com
Nationality Romanian
Date of birth 01 January 1956
Gender Female

Occupational field **Research and Development**

Work experience

| | |
|--------------------------------------|---|
| Dates | 2005 - present |
| Occupation or position held | Senior Researcher – Head of Research Department |
| Main activities and responsibilities | Projects management; member of the research team for more than 40 national and international projects and project manager for 10 national projects |
| Name and address of employer | Research Institute for Analytical Instrumentation ICIA Cluj-Napoca, 67 Donath St., Postal Code 400293 |
| Type of business or sector | Research |
| Dates | 1990– 2005 |
| Occupation or position held | Senior Researcher - Physicist |
| Main activities and responsibilities | Historical pollution and exposure; Environmental monitoring; Stakeholder communication and liaison, Working within environmental quality assessment and bioenergy-biomass projects; Identifying barriers for the development of first and second generation biofuels considering different aspects: agricultural, social, legal, environmental, technological, production |
| Name and address of employer | Research Institute for Analytical Instrumentation ICIA Cluj-Napoca, 67 Donath St., Postal Code 400293 |
| Type of business or sector | Research |

| | |
|--------------------------------------|--|
| Dates | 1987 – 1990 |
| Occupation or position held | Researcher - Physicist |
| Main activities and responsibilities | Polymer properties for applications in sensors and actuators; Sensors application in the production of the analytical, environmental and medical instrumentation; Environmental monitoring; Stakeholder communication and liaison, Working within environmental quality assessment and construction of analytical instrumentation projects |
| Name and address of employer | Research Institute for Analytical Instrumentation ICIA Cluj-Napoca, 67 Donath St., Postal Code 400293 |
| Type of business or sector | Research |

| | |
|--------------------------------------|---|
| Dates | 1985 – 1987 |
| Occupation or position held | Researcher - Physicist |
| Main activities and responsibilities | Thermal ageing of the polymeric materials to be used in electrotechnical equipments designed for nuclear power plant from Cernavoda |
| Name and address of employer | Research Institute for Electrotechnics, Department of Materials Science, Bucuresti, 313 Splaiul Unirii, 030318, Bucuresti |
| Type of business or sector | Research |

| | |
|--------------------------------------|--|
| Dates | 1981 – 1985 |
| Occupation or position held | Physicist |
| Main activities and responsibilities | Interaction of radiation with the substance; Influence of radiation on human body; Safety of fast neutron reactor; |
| Name and address of employer | Institute for Nuclear Research, Department of Research, Pitesti, Campului Str, No. 1, POB 78, Postal Code 115400 - Mioveni, Arges County |
| Type of business or sector | Research |

Education and training

| | |
|--|--|
| Dates | 1991-1997 |
| Title of qualification | PhD |
| Principal subjects/occupational skills covered | Humidity sensors based on polymeric materials |
| Name and type of organisation providing education and training | Babes-Bolyai University Cluj-Napoca, Faculty of Chemistry and Chemical Engineering |
| Level in national or international classification | ISCED 6 |

| | |
|--|--|
| Dates | 1976-1981 |
| Title of qualification awarded | Msc, Physicist engineer |
| Principal subjects/occupational skills covered | Nuclear reactors, nuclear materials, safety of nuclear reactor |
| Name and type of organisation providing education and training | University of Bucharest, Faculty of Physics |
| Level in national or international classification | ISCED 6 |

Personal skills and competences

| | |
|-------------------|-----------------|
| Mother tongue(s) | Romanian |
| Other language(s) | |

| Self-assessment <i>European level (*)</i> | Understanding | | | | Speaking | | | | Writing | |
|--|---------------|------------------|---------|-----------------|--------------------|------------------|-------------------|------------------|---------|-----------------|
| | Listening | | Reading | | Spoken interaction | | Spoken production | | | |
| English | C2 | Proficient User | C2 | Proficient User | B2 | Independent User | B2 | Independent User | C1 | Proficient User |
| French | B2 | Independent User | C1 | Proficient User | B1 | Independent User | B1 | Independent User | B2 | Independent Use |

(*) *Common European Framework of Reference for Languages*

| | |
|---------------------------------------|---|
| Social skills and competences | Sociable, Team work experience (planning, organizing, committing), Communicative at work, Good ability to adapt to multicultural environments |
| Organisational skills and competences | Organized person, Responsible, Problem-solving attitude, Ability to schedule and respect deadlines for project activities, Able to manage a couple of tasks in a given period of time, Team member within BIOCARO Inception Group (BIOCARO =The Romanian Biofuels Technology Platform) and CRAIM Inception Group (CRAIM= Regional Center for Major Industrial Accident Prevention) |
| Technical skills and competences | <ul style="list-style-type: none"> - expertise in leading large national projects and to work in international projects - expert in best industrial and environmental practice - biofuels: Romanian potential, sources of renewable energy - advanced strategies for in-situ and on-site soil/groundwater decontamination such as myco-phytoremediation |
| Computer skills and competences | Editing: Microsoft Word, Microsoft Power Point, Working in Database: Microsoft Excel, Network: Outlook Express, |
| Artistic skills and competences | <ul style="list-style-type: none"> - poetry, literature |
| Other skills and competences | <ul style="list-style-type: none"> - respect deadlines; punctual and responsible - Scientific evaluator/expert/referee: CNCSIS (National Council for Scientific Research in Higher Education, Bucharest, Romania) - President of the ICIA Scientific Board, member of the Advisory Committee of the Research Institute for Chemistry "Raluca Ripan" Cluj-Napoca, member of the Advisory Committee of the University of Medicine and Pharmacology Cluj-Napoca |
| Driving licence | No |
| | <ul style="list-style-type: none"> - Contact person: Prof. Dr. Emil Cordos: emil.cordos@icia.ro Prof. Dr. Florin-Dan Irimie: irimie@chem.ubbcluj.ro |

Additional information

Publication, in the last 10 years, of 48 papers in ISI quoted journals, 2 books, 2 granted patents

Granted patents

Senila L, Chintoanu M, Gog A, Roman M, Pitl G, **Roman C**, Technology for obtaining bioethanol from lignocellulosic biomass (wood waste), Patent Number A 2009/01005, Accepted 23.08.2010(1031625).

Chintoanu M, Cimpoi C, Costineanu D, Ferenczi L, Ghirisan A, Miclaus V, Miclean M, Ozunu A, **Roman C**, Process for depolluting water containing medicamental hormonal and xenoestrogenic organic substances more options, Patent Number RO125296-A2

Relevant publications:

- Cordos E, Rautiu R, **Roman C**, Bodea O, Frentiu T, Arsenic and heavy metal exposure in Romania, *Epidemiology*, 12, 4, S22-S22, 2001
- Cordos E, Rautiu R, Gherhes I, Boichis R, **Roman C**, Bodea O, From local disaster to complex disaster with transboundary implications: The cyanide spill from Baia Mare, Romania, *Epidemiology*, 12, 2001, 308
- Cordos E, **Roman C**, Ponta M, Rusu A, Frentiu T, Rautiu R, Sarkany A, Synopsis of the environmental impact of a complex cyanide disaster in Romania 2000, *Epidemiology*, 13, 4, Meeting Abstract 090, S95-S96, 2002
- Cordos E, Rautiu R, **Roman C**, Ponta M, Frentiu T, Sarkany A, Fodorpataki L, Macalik K, McCormick C, Weiss D, Characterisation of the rivers system in the mining and industrial area of Baia Mare, Romania *European Journal of Mineral Processing and Environmental Protection*, 2003, 3 (3), 324-335
- Vogt A, Pesch B, Lyesnykh T, Rautiu R, Troitsky V, Magazanik D, Mambetova C, Tabyshalieva A, Cordos E, **Roman C**, Ozunu A, Bocsan J, Vlad M, Sinca A, Ranft U, The risk of cyanide in gold leaching on health and environment, *European EpiMarker*, 2003, 7(3), 1-7
- Cordos EA, Frentiu T, Ponta M, Marginean I, Abraham B, **Roman C**, Distribution study of inorganic arsenic (III) and (V) species in soil and their mobility in the area of Baia-Mare, Romania, *Chemical Speciation and Bioavailability*, 2006, 18 (1), 2006, 11-25
- Kormos F, Rotariu I, Tolnai G, Pavai M, **Roman C**, Kalman E, The stability of Sb: SnO₂ (ATO) nanostructured protecting films on glass, *Journal Of Optoelectronics And Advanced Materials*, 2007, 9 (7), 2232-2236
- Cordos E, **Roman C**, Ponta M, Frentiu T, Rautiu R, Evaluation of soil pollution with copper, lead, zinc and cadmium in the mining area Baia Mare, *Revista de chimie*, 2007, 58 (5), 470-474
- Bocsan IS; Brumboiu MI; Vlad M, **Roman C**, Ponta M, Brie I, Relationship between environmental chronic exposure to heavy metals and carcinogenic risks in non-occupationally exposed population, *Epidemiology*, 18, 5, S147-S148, 2007
- Kormos F, Rotariu I, Tolnai G, Pavai M, **Roman C**, Kalman E., The stability of Sb: SnO₂ (ATO) nanostructured protecting films on glass, *Journal Of Optoelectronics And Advanced Materials*, 2007, 9 (7), 2232-2236
- Rabstein S, Unfried K, Ranft U, Illig T, Kolz M, Mambetova C, Vlad M, **Roman C**, Weiss T, Becker D, Brüning T, Pesch B, Lack of association of delta-aminolevulinic acid dehydratase polymorphisms with blood lead levels and hemoglobin in romanian women from a lead-contaminated region., *J Toxicol Environ Health A*, 2008, 71(11), 716 – 724
- Matei A, Cernica I, Cadar O, **Roman C**, Schiopu V, Synthesis and characterization of ZnO – polymer nanocomposites, *International Journal of Material Forming*,
- Levei E, Frențiu T, Ponta M, Senila M, Miclean M, **Roman C**, Cordos E, Characterization of soil quality and mobility of Cd, Cu, Pb and Zn in the Baia Mare area Northwest Romania following the historical pollution, *International Journal of Environmental Analytical Chemistry*, 2009, 89 (8), 635-649
- Zobrist J, Sima M, Dogaru D, Senila M, Yang H, Popescu C, **Roman C**, Abraham B, Frei L, Dold B, Balteanu D, Environmental and socioeconomic assessment of impacts by mining activities—a case study in the Certej River catchment, Western Carpathians, Romania - *Environ Sci Pollut Res*, 16 (S1), 2009, 14-26
- Miclean M, Senila L, **Roman C**, Gog A, Levei E, Groza I, Comparison of DI-SPME-GC-MS and SPE-GC-MS with derivatization for analysis of steroid hormones in river water, *Revista de Chimie*, 2010, 61 (6), 615-618.
- Senila L, Gog A, Senila M, **Roman C**, Silaghi-Dumitrescu L, Analysis of carbohydrates obtained from wood by gas chromatography-mass spectrometry, *Revista de Chimie*, 2011, 62, 149-153
- Senila M, Levei E, Miclean M, Senila L, Stefanescu L, Ozunu A, **Roman C**, Influence of pollution level on heavy metals mobility in soil from NW Romania, *Environmental Engineering and Management Journal*, 2011, 10 (1), 59-64

Relevant projects:*Project manager:*

1. Researches regarding the biodiesel/additive obtaining from renewable energy sources through a carbonation reaction of glycerol acetals (2006-2008)
2. Public information campaign regarding the advantages of biofuels and renewable biofuels use (2009-2010)
3. Development of modern technologies with optimum yield for biomass superior recovery (lignocellulosic wastes and algae) in order to obtain 2nd and 3rd biofuels generation (2008-2011)
4. Improving the administrative capacity of INCDO-INOE 2000, ICIA Subsidiary, for accessing European funds (2011)
5. Modern, non-conventional method for microbial depollution of phenolic waste-water, to consolidate the biologic diversity (2007-2010)
6. Microbiological Hood with Vertical Laminar Flow, 2A class (2004-2010)
7. Improvement of methods and techniques for identification and determination at nanoscale of steroid structures contaminants in food (2009-2010)
8. Performance improvement and assay area enlargement of environmental analysis laboratory by infrastructure modernization (2007-2008)
9. Nanostructured protective films for glass (2004-2006)
10. Sensor based equipment for pesticide detection in food products (2003-2005)

Project scientific responsible:

1. An integrated assessment of environmental impacts of mining activities in two selected catchments (upper Crisul Alb and Certej) in the Apuseni Mountains, Romania, and trans-boundary river pollution (2005-2007)
2. Development of hazard maps and assessment of environmental quality in mining areas in Maramures and Satu Mare counties using geographical information systems (2005-2008)
3. Multidisciplinary development of surgical robots based on innovative parallel structure (2008-2011)
4. Advanced Nanocomposites materials used in civil constructions with antibacterial, selfcleaning properties and solar energy concentrators integrated structures for ambiental improvement (2007-2010)

Team member:

1. Highly efficient technology for biogas production from biomass, in an integrate system generating electric power and heat, in the case of Romanian agricultural farms (2008-2011)
2. Technology based on enzymatic transesterification process in order to obtain 2nd generation biofuels (2008-2011)
3. Cancer risk assessment for heavy metals chronically exposed population (2005-2008)
4. Bioremediation of soils contaminated with petroleum products from the industry for their restoration to the socio-economic circuit (2007-2010)
5. Modern, non-conventional method for microbial depollution of phenolic waste-water, to consolidate the biologic diversity (2007-2010)
6. Interdisciplinary research concerning soil-plant correlation, establishing of transfer factors for areas with historic anthropogenic pollution (2008-2011)
7. Innovative remediation technology of soils contaminated by the activities specific to the metallurgical industry (2008-2011)

I hereby certify that the above statements are true.

Date: 31.10.2011

