

PERSONAL INFORMATION

Petru Ilea



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Sex Male | Date of birth 23/04/1953 | Nationality Romanian

WORK EXPERIENCE

2008–Present

Director

Center for Physical and Chemical Analysis at the IRI BNS., Cluj-Napoca (Romania)

2008–Present

Vice-Director

Interdisciplinary Research Institute on Bio-Nano-Sciences (IRI BNS), Cluj-Napoca (Romania)

2007–Present

Professor. Dr. Eng.

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca (Romania)
Chemical engineering doctoral thesis Coordinator

2005–Present

Professor

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca (Romania)

2000–2009

Chancellor at Faculty of Chemistry and Chemical Engineering

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca (Romania)

2000–2005

Associate Professor, Dr. Eng.

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca (Romania)

1990–2000

Lecturer

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca (Romania)

1987–1990

Assistant

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca (Romania)

1981–1987

Researcher

Institute of Chemical and Biochemical Energetics, Cluj-Napoca (Romania)

1977–1981

Chemical engineer

Heavy Equipment Enterprise, Cluj-Napoca (Romania)

EDUCATION AND TRAINING

1990–1994

Ph.D. in Chemical Engineering

Babes Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca (Romania)

1972–1977 **Chemical Engineer Diploma**
"Traian Vuia" Polytechnic Institute, Timisoara (Romania)

1968–1972 **Baccalaureate Degree**
"Alexandru - Papiu Ilarian" Theoretical High-school, Targu-Mures (Romania)

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
French	C1	C1	C1	C1	B2
English	B2	B2	A2	A2	B2

Communication skills

- Teamwork spirit
- Flexibility
- Ability to work under stress conditions

Organisational / managerial skills

- Organisational and leading skills of large groups of people, in activities related to the profession and in academic management

Job-related skills Specific to the basic profession (Chemical Engineer)

Computer skills

- Microsoft Word
- Microsoft Excel
- Originlab Origin
- Thomson Reuters EndNote

Driving licence B

ADDITIONAL INFORMATION

Scientific activity 50 published articles in ISI journals, 24 articles published in CNCSIS accredited journals, three books and over 100 scientific communications (posters or oral communications) presented and printed at national and international conferences. 6 completed doctoral theses, two postdoctoral programs and five doctoral students in internship.

Participation in 26 research projects of which 5 as a director - including an on-going international research project. Current and future researches done during research projects and/or the academic (doctoral and postdoctoral) research fall within the domain of Electrochemical Process Technology and Engineering. Studies are related to: inorganic substances electrosynthesis, electrometallurgy and

electrochemical technology applied in environmental remediation, protection and recycling

Relevant publications

1. S. Fogarasi, F. Imre-Lucaci, A. Imre-Lucaci, P. Ilea, Copper recovery and gold enrichment from waste printed circuit boards by mediated electrochemical oxidation, *Journal of Hazardous Materials* 273, 215 (2014)
2. I. A. Popescu, T. Varga, Á. Imre-Lucaci, T. Chován, P. Ilea, Kinetic Modelling of Copper and Zinc Dissolution from Brass Obtained from Waste Electrical and Electronic Equipment. *Computer Aided Chemical Engineering*. 33: 1147 (2014)
3. E. Gîlcă, A. Măicăneanu, P. Ilea, Removal of zinc ions as zinc chloride complexes from strongly acidic aqueous solutions by ionic exchange, *Cent. Eur. J. Chem.* 12(8) 821 (2014)
4. E. Fischer-Fodor, A-M. Vălean, P. Virag, P. Ilea, C. Tatomir, F. Imre-Lucaci, M. Perde Schrepler, L. T. Krausz, L. Barbu Tudoran, C. G. Precup, I. Lupan, E. Hey-Hawkins, L. Silaghi-Dumitrescu, Gallium phosphinoarylbisthiolato complexes counteract drug resistance of cancer cells, *Metallomics*, 6, 833 (2014)
5. V. Coman, B. Robotin, P. Ilea, Nickel recovery/removal from industrial wastes: A review. *Resources, Conservation and Recycling*, 73, 229 (2013)
6. R. Rácz, P. Ilea, Electrolytic recovery of Mn₃O₄ and Zn from sulphuric acid leach liquors of spent zinc–carbon–MnO₂ battery powder, *Hydrometallurgy*, 139 116, (2013)
7. F. A. Hanc-Scherer, C. M. Sánchez-Sánchez, P. Ilea, E. Herrero, Surface-Sensitive Electrooxidation of Carbon Monoxide in Room Temperature Ionic Liquids, *ACS Catalysis*, 3(12):2935 (2013)
8. S. Fogarasi, F. Imre-Lucaci, P. Ilea, A. Imre-Lucaci, The environmental assessment of two new copper recovery processes from Waste Printed Circuit Boards, *Journal of Cleaner Production*, 54, 264 (2013)
9. B. Robotin, A. Ispas, V. Coman, A. Bund, P. Ilea, Nickel recovery from electronic waste: II Electrodeposition of Ni and Ni-Fe alloys from diluted sulfate solutions, *Waste Management*, 33, 2381 (2013)
10. Cuibus, F.M., Ispas, A., Bund, A. and Ilea, P., Square wave voltammetric detection of electroactive products resulting from electrochemical nitrate reduction in alkaline media. *Journal of Electroanalytical Chemistry*, 675, 32 (2012)

Memberships

- International Society of Electrochemistry
- Romanian Chemical Society
- Romanian Electrochemistry Society
- Romanian Environmental Association
- Vice-president of Romanian Chemical Engineering Association
- President of Romanian Chemical Engineering Association Cluj – Napoca branch.

Honours and awards

- 2003, 2004, 2007 - Diploma of Merit for contributions to the development of Babeş-Bolyai University ;
- 2006 - Diploma for institutional innovation Babeş-Bolyai University
- 2008 - Award for academic management of Babeş-Bolyai University

