

Ana Maria Josceanu

Professor, PH.D.

University "POLITEHNICA" Bucharest
Faculty of Applied Chemistry and Materials Science
Department Analytical Chemistry and Chemical Engineering



Contact information

Room: R003
e-mail: a_josceanu@chim.upb.ro
phone: 4021-4023908

Education and training

Dates	1979-1983
Title of qualification awarded	chemical engineer
Principal subjects/occupational skills covered	Chemistry and engineering of macromolecular compounds, Instrumental analyses
Name and type of organisation providing education and training	Polytechnic Institute of Bucharest, Faculty of Technology of Macromolecular Compounds
Level in national or international classification	6-7
Dates	1992-1996
Title of qualification awarded	Ph. D. in chemistry
Principal subjects/occupational skills covered	Inorganic chemistry, Kinetics, Fast reactions techniques
Name and type of organization providing education and training	University of Warwick

Professional experience

Dates	1985–present
Occupation or position held	-professor in Analytical Chemistry since 1.10.2002 -reader in Analytical Chemistry, 1997 - 2002 - lecturer in the Department of Analytical Chemistry 1992 – 1997 - assistant in the Department of Analytical Chemistry 1985 -1992
Main activities and responsibilities	teaching Analytical Chemistry, Instrumental Analyses, Expertise of Coffee, Sweets and Beverages, e-Learning, Analyses of Minerals in Food, both in Romanian and English for the undergraduate and postgraduate students of the Faculty of Material Sciences and Applied Chemistry
Name and address of employer	University 'POLITEHNICA' of Bucharest, supervising students in their research projects for getting a degree
Type of business or sector	education

Academic and research interests

analytical chemistry, instrumental analyses methods, chemometrics and quality in analytical chemistry, laboratory quality management systems, supramolecular chemistry, reaction kinetics in aqueous and non-aqueous media, ion selective electrodes, liquid-liquid partition equilibria, liquid membranes.

Teaching activity

Studies	The name of Programme	Code	Course title	Activity type
Bachelor	Chemical Engineering	UPB.12.F.1.O.034.EC	Analytical chemistry	Lectures
		UPB.12.F.2.O.034.EC	Analytical chemistry	Laboratory
Master	Environmental Engineering	UPB.11.S.11.O.1203	Basic of chemometrics	Lecture and seminar
	Chemistry of Foods	UPB.11.S.10.O.0407	Analyses of mineral compounds in foodstuff	Lecture and laboratory
	Chemical Sciences in Continuous Education	UPB.11.S.09.O.803	e-Learning	Lecture and applications
	Chemical Sciences in Continuous Education	UPB.11.S.10.O.810	Chemometrics	Lecture and applications
	Expertise of products and services	UPB.11.S.10.O.1112	Coffee, Sweets and Beverages	Lecture and laboratory

Publication (selective):

Books

Ana Maria JOSCEANU, Raluca Daniela Isopescu, Paula Postelnicescu, Anca Madalina Dumitrescu, Razvan Onofrei, 'e-Learning in Chemical Education' in "Distance Education", ed. Paul Birevu Muyinda, 2012, InTech Press, ISBN 978-953-51-0756-9.

Ana Maria JOSCEANU, Elena Ruse, Course support for the programme Privim catre viitor - e-Chimie, Basic IT Skills -TIC Chimie - Inovare in predarea și învățarea chimiei, ISBN 978-606-515-403-2, Vol. 3 *Chimie Fizică și Electrochimie, Chimie Analitică*, Politehnica Press, 2012.

Ana Maria JOSCEANU, *Basics in Analytical Chemistry*, 2009, Printech Press, Bucharest, ISBN 978-606-521-461-3.

A.M. JOSCEANU, M.E. Craciun, "Quick Assessment of Environment" Bucharest 2004, Politehnica Press, ISBN 973-8449-74-X.

Ana Maria JOSCEANU, "Scurtă incursiune în analiza instrumentală", Ars Docendi Publishing House, Bucharest 2001, ISBN 973-8118-49-2.

Ana Maria JOSCEANU, Elena Ruse, Eugenia Totu, "Analiza chimică. Analiză cantitativă", Ars Docendi Publishing House, 2001, ISBN 973-8118-40-9.

C. Luca, Lucia Mutihac, R. Mutihac and Ana Maria JOSCEANU, "Mecanisme de transport prin membrane lichide", Romanian Academy Publishing House, Bucharest 1998, ISBN 973-27-0596-5.

Articles

Adriana Monica Radu, Ana Maria JOSCEANU, Daniel Dinculescu, Vasile Lavric, 'Enhanced partition model of 4-nitrophenol in water – octanol system. Effects of association/dissociation processes', *Fluid Phase Equilibria*, **427**, 2016, 575–582, <http://dx.doi.org/10.1016/j.fluid.2016.08.021>

Iulian Minca, Raluca Daniela Isopescu, Ana Maria JOSCEANU, Aida Reguera Galan, Mariella Moldovan Feier, J. Ignacio Garcia Alonso, 'Elemental Content and Multivariate Analysis for Tea Types Differentiation', *Revista de Chimie*, **66**(2), 2015, 162-168.

Maria Gratiela Craioveanu, Ligia Stoica, Carolina Constantin, Ana Maria JOSCEANU, 'Kinetic Studies of Caffeic Acid-Pb(II)aq Reaction and of Their Flotation Process', *Revista de Chimie*, **66**(3), 2015, 299-303.

Irina Gențiana Băjenaru (Ciobanu), Ana Maria JOSCEANU, Cornelia Guran, Iulian Mincă, 'Ion chromatographic method for the determination of heavy metals in water', *Revista de Chimie*, **66**(12), 2015, 1960-1964.

Raluca Daniela Isopescu, Ana Maria JOSCEANU, Iulian Minca, Teodora Colta, Paula Postelnicescu, Cristina Mateescu, 'Characterization of Romanian Honey Based on Physico-Chemical Properties and Multivariate Analysis', *Revista de Chimie*, **65**(4), 2014, 381-385.

Gabriela Isopencu, Alina Tanase, Ana Maria JOSCEANU, Vasile Lavric, 'Influence of the Operating Parameters on the E. Coli BL21 (DE3) Growth in Feedbatch Bioreactor', *Revista de Chimie*, **65**(12), 2014, 1511-1516.

A.M. Dumitrescu, A.M. JOSCEANU, P. Postelnicescu, R.D. Isopescu, V. Plesu, F. Ghindescu-Negura, 'e-Chemistry, next step', *Chemical Engineering Transactions* **39**, 2014, 1693-1698.

Eugenia Totu, Elena Ruse and Ana Maria JOSCEANU 'Influence of Plasticizers on Ion-Selective Polyimide Membranes', *Annali di Chimica* **96**(3-4), 2006, 237-246.

Eugenia Totu, Ana Maria JOSCEANU, A. Covington, 'Improved potassium –selective membrane using valinomycin as ionophore for ion-selective microdevices', *Materials Science and Engineering C* **18**, 2001, 87-91.

Ana Maria JOSCEANU and Peter Moore, 'Comparison of the Rates and Mechanisms of Formation of $[Fe(2,2'-bipyridine)_3]^{2+}$ and $[Fe(1,4,7-tris(2,2'-bipyridyl-5-ylmethyl)-1,4,7-triazacyclononane and Their Stabilities in N,N-Dimethyl Formamide Solution]$ ', *J. Chem. Soc., Dalton Trans.*, 1998, 369-374.

Ana Maria JOSCEANU, Peter Moore, Simon C. Rawle, Stephen M Smith, Philippa Sheldon, '1,4,8,11-Tetrakis(2',2''-bipyridyl-5'-yl-methyl)-bis(2',2''-bipyridyl)-ruthenium (II)}-1,4,8,11-tetraazacyclotetradecane, a pH and Transition Metal Ion Fluorescence Sensor. Stopped-flow Fluorimetric Studies of the Thermodynamics, Kinetics and Mechanisms of Reactions of the Unprotonated Azamacrocyclic with Nickel(II) and Copper(II) Ions in Aqueous Solution at Neutral pH,' *Inorg. Chim. Acta* **240**, 1995, 159-168.

Research projects

Project – Program	Position	Time interval
Innovative Separations Membranes for the Selective Recycling of Heavy Metal Ions and Organics of Biological Interest - INCO COPERNICUS ERB IC 15-CT98-0147	PARTICIPANT	2000 – 2002
SIEFAT – E-Learning System for a Technical Faculty - INFOSOC 78/2002	PARTICIPANT	2002 – 2004
Analytical Devices for Pollutants Determination in Surface and Deep Waters - CNCSIS A/314/2003	DIRECTOR	2003 – 2005
Engineering of Adaptive Materials for Membranes and Biosensors - BRANCUSI	PARTICIPANT	2003
SALVAT – Advanced E-Learning System for a Technical Faculty - INFOSOC 161/2004	DIRECTOR	2004 – 2006
PROSEBA – Prototype Project for Public Services in Automated Libraries - RELANSIN 2041/2004	DIRECTOR	2004-2006
NUSIDOC – National Unitary System for Information and Scientific And Technical - SECTORIAL PROJECT 9/2004	PARTICIPANT	2004-2005
Project for Rural Teaching - MEdC RO-4691	PARTICIPANT	2004-2006
GRID SINRED / CEEEX PROJECT - CEEEX 2005 PT-D03-PT00-729	PARTICIPANT	2005-2007
IMAFU - Integrated Management for Financial Management of the University - CEEEX 48/2005	PARTICIPANT	2005-2008
Laboratory For Honey Quality Control And Adulteration - CEEEX 193/2006	DIRECTOR	2006-2008
REMEDIU – Collaborative Network for Studying Pollutants Effect upon Health - CEEEX 138/2006	PARTICIPANT	2006-2008
PAELIS – Development of Advanced E-Learning Portal for Higher Education - PNII INOVARE 1270/2007	DIRECTOR	2007–2009
SUNIDOC – Development of a Performant Informatics System for Document and Process Management in an University - PNII INOVARE 1271/2007	PARTICIPANT	2007–2009

Other information

Foreign languages: English (C1-experienced user), German (A1-elementary user), French (A1-elementary user).

Membership in professional organizations: vice-president of the Romanian Chemical Society, member of the managing committee of EURACHEM-Romania, member of the Royal Chemical Society.

Reviewer for journals: Journal of Cleaner Production, Journal of Food Composition and Analysis, Journal of Food Quality, Analytical Letters, Open Chemistry, Chemical Engineering Communications, BMC Research, International Research Journal of Public and Environmental Health, Journal of Scientific and Industrial Research, Croatica Chimica Acta, Talanta, Revista de Chimie, Scientific Bulletin – UPB Series B – Chemistry and Materials Science, Studia Universitatis Babes-Bolyai, Seria Chemia, Revue Roumaine de Chimie.