

Europass Curriculum Vitae



Personal information

First name / Surname **Adina Ionuta Gavrilă**
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E-mail adinagav@yahoo.com, adinagav@gmail.com
Nationality Romanian
Date of birth 16.03.1970
Gender Female

Desired employment / Occupational field

Work experience

Dates	2017-present
Occupation or position held	Associate professor
Main activities and responsibilities	Teaching activities in the biomass transformation, petrochemical and organic technology field. Research activities involve: Biofuels, biorefineries, Natural products isolation, Industrial chemistry – organic chemicals, Microwave applications in chemical synthesis and material processing, Pollution control;
Dates	2006-2017
Occupation or position held	Senior Lecturer
Main activities and responsibilities	Teaching activities in the biomass transformation, petrochemical and organic technology field. Research activities involve: Biofuels, biorefineries, Natural products isolation, Industrial chemistry – organic chemicals, Microwave applications in chemical synthesis and material processing, Pollution control;
Name and address of employer	University "Politehnica" of Bucharest, Faculty of Applied Chemistry and Materials Science, Department Bioresources and Polymer Science, 1-7, Gh. Polizu Street, Sector 1, Bucharest, 011061
Type of business or sector	Education
Dates	2008-2009
Occupation or position held	Postdoctoral fellow
Main activities and responsibilities	Research activities in the biochemical and organic chemistry field. This involved: <ul style="list-style-type: none"> - development of polar ligands for chelating ^{99m}Tc and Re, - synthesis of uPAR peptides containing single amino acids chelates. - improve the hydrophilicity of chelating ligands by introduction of polar groups (alcohol, carboxylic, PEG and carbohydrate groups) on bis-imidazolyl single amino acids chelates, - improve hydrophilicity of quinoline chelating ligands, and synthesis of uPAR peptides using the new synthesized polar chelates.
Name and address of employer	McMaster University, Department of Biochemistry, 1280 Main Street West, L8S4L8, Hamilton, Ontario, Canada.
Type of business or sector	Research activity

Dates 2003-2005
Occupation or position held PhD fellow and Research assistant
Main activities and responsibilities Research activities
- modification of peptides by oxidative degradation of serine residue as a means of initial functionalization of the peptide backbone, and the utility of samarium diiodide promoted C-alkylation protocol of small peptides.
- development a more convenient one step synthesis of nitrate esters from hydroxyl groups present in peptides, monosaccharides and steroids.
Name and address of employer Aarhus University, Department of Chemistry, Langelandsgade 140 DK-8000 Aarhus C, Denmark.
Type of business or sector Research activity

Dates 1995 – 2002
Occupation or position held Research Engineer
Main activities and responsibilities Research activities organic chemistry and organic technology field.
Name and address of employer University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science, Department Technology of Organic Substances, 149 Calea Victoriei, Bucharest, Romania
Type of business or sector Research & Development

Education and training

Dates 2002-2006
Title of qualification awarded PhD
Principal subjects Thesis title: 'New Catalysts Hydrophylized with Modified Peptide Type Oligomers'
Name and type of organisation providing education and training University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science, Department Technology of Organic Substances, Romania

Dates 1998-1999
Title of qualification awarded Master of Science
Principal subjects Master Speciality Dyes and Tensioactive Substances
Name and type of organisation providing education and training University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science, Department Technology of Organic Substances, Romania

Dates 1989-1994
Title of qualification awarded Diplomat Engineer
Principal subjects Licence Speciality Petrochemistry
Name and type of organisation providing education and training University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science, Department Technology of Organic Substances, Romania

Personal skills and competences

Teaching and research skills in the following fields of expertise (keywords): biofuels, biomass transformation, tensioactive substances, organic chemistry, natural products isolation, petrochemistry, coal-chemistry, nanoparticles synthesis, radiochemistry, biochemistry, peptides, organic syntheses, catalysis, wastewater biological treatment, chemical reaction engineering.

Mother tongue(s) Romanian

Other language(s)

Self-assessment

European level (*)

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user	C2	Proficient user
A2	Basic user	A2	Basic user	A1	Basic user	A1	Basic user	A1	Basic user

(*) Common European Framework of Reference for Languages

Social skills and competences	<ul style="list-style-type: none"> - good communication skills gained through my experience as teacher; - good ability to adapt to multicultural environments, gained through my work experience and a large number of research stages abroad; - team spirit gained through my work experience in a national and international research projects.
Organisational skills and competences	<ul style="list-style-type: none"> - good experience in research project and research team management - good experience in organizing teaching classes, seminars and conferences, academic research stages; - member of Committee of the 3rd International Conference of the Chemical Societies of the South-Eastern European Countries on Chemistry in the New Millennium – an Endless Frontier in September 2002, Bucharest, Romania - Member of Romanian Society of Chemistry.
Computer skills and competences	Professional user of Microsoft Office™ (Word™, Excel™, PowerPoint™), Chem Office (Chemdraw), Graph (Origin)
Additional information	<p>Publications</p> <p>Papers published in ISI journals: 16</p> <p>Papers published in BDI+ journals: 8</p> <p>Papers published in Conference proceedings: 30</p> <p>Books and teaching notes: 3 (Romanian).</p>
Annexes	Publication selection

PAPERS PUBLISHED IN ISI JOURNALS

1. I Asofiei, I Calinescu, A Trifan, IG David, AI Gavrila, „Microwave Assisted Batch Extraction of Polyphenols From Sea Buckthorn Leaves”, *Chemical Engineering Communications*, DOI: 10.1080/00986445.2015.1134518, ISSN: 0098-6445 (Print) 1563-5201 (Online), **2015**.
2. I. Calinescu, A. I. Gavrila, M. Ivopol, G. C. Ivopol, M. Popescu, N. Mircioaga, „Microwave assisted extraction of essential oils from enzymatically pretreated lavender (*Lavandula angustifolia* Miller)”, *Cent. Eur. J. Chem.*, 12(8), p.829-836, **2014**.
3. I. Călinescu, D. Martin, D. Ighigeanu, A. I. Gavrila, A. Trifan, M. Patrascu, C. Munteanu, A. Diacon, E. Manaila, G. Craciun, „Nanoparticles synthesis by electron beam radiolysis”, *Cent. Eur. J. Chem.*, 12(7), p.774-781, **2014**.
4. I. Călinescu, G. Mustăţea, A. I. Gavrila, A. Dobre, C. Pop, „Silver nanoparticles: synthesis, characterisation and antibacterial activity”, *Revista de chimie*, 65(1), p. 15-19, **2014**.
5. Adina Gavrila, Lisbeth Andersen and Troels Skrydstrup, “A convenient and simple procedure for the preparation of nitrate esters from alcohols employing $\text{LiNO}_3/(\text{CF}_3\text{CO})_2\text{O}$ ”, *Tetrahedron Letters* 46 p.6205–6207, **2005**.
6. Peter Blakskjær, Adina Gavrila, Lisbeth Andersen and Troels Skrydstrup, “An improved protocol for the Sml_2 -promoted C-alkylation of peptides: degradation and functionalization of serine residues in linear and cyclic peptides”, *Tetrahedron Letters* 45 p.9091–9094, **2004**.
7. P. Chipurici, R. Avram, L. Papahagi, I. Calinescu, Adina Gavrila, “Liquid Phase Oxidation of the *para*-Izo-propyl-toluene to *para*-Izopropylbenzoic acid”, *Rev de chim*, 54(2), p.168, **2003**.
8. P. Chipurici, L. Papahagi, C. Cristescu, I. Duta and Adina Gavrila, “Liquid Phase Oxidation of *para-tert*-Butyl Toluene”, *Rev. Roum. Chim*, 48(1), p.49 – 55, **2003**.
9. P. Chipurici, L. Papahagi, R. Avram, Adina Gavrila, “Liquid Phase Oxidation of the Alkylaromatic Hydrocarbons”, *Rev. Roum. Chim*, p.641 – 645, 47(7), **2002**.
10. P. Chipurici, L. Papahagi, R. Avram, Adina Gavrila, “Liquid Phase Oxidation of Cyclohexyltoluene”, *Rev de chim*, 53 (3), p. 244, **2002**.
11. P. Chipurici, R. Avram, L. Papahagi, I. Calinescu, Adina Gavrila, “Liquid Phase Oxidation of the *para*-Izo-Propyltoluene to Hydroperoxides”, *Rev de chim*, 53(7), p.551, **2002**.

PAPERS PUBLISHED IN BDI+ JOURNALS

1. I. Călinescu, A. I. Gavrila, G. C. Ivopol, M. Ivopol, N. Mircioagă, M. Buleandă, I. A. Badea, M. Pătraşcu, „On the efficient extraction of essential oil from *mentha spicata*”, *UPB Sci. Bull., Series B*, Vol. 76, Iss. 4, p. 3 - 14, ISSN 1454 – 2331, **2014**
2. I. Calinescu, D. Martin, D. Ighigeanu, A. Gavrila, A. Trifan, M. Patrascu, “Nanoparticle synthesis by electron beam radiolysis”, *Elektrotehnica & Electronica* (47), No. 5-6/2012, p. 241-248, ISSN 0861-4717, **2012**.
3. I. Călinescu, M. Pătraşcu, A. Gavrila, A. Trifan, C. Boscornea, “Synthesis and characterisation of silver nanoparticles in the presence of PVA and tannic acid”, *UPB Sci. Bull. Series B*, Vol. 73, Iss. 4, p. 3 - 10, ISSN 1454 – 2331, **2011**;
4. A. I. Gavrila, P. Chipurici, L. Papahagi, „New Hydrophylized Catalysts Based on Phthalocyanine Structures Modified with Peptide”, *Buletinul Institutului Politehnic din Iasi*, 56(1), p. 55-63, ISSN 0254 – 7104, **2010**
5. P. Chipurici, I. Calinescu, G. Predeanu, A. Gavrila, A. Bulearca "Wastewater Treatment by Adsorption on the Multipurpose Carbon Materials" *Buletinul Institutului Politehnic din Iasi*, 56(2), p. 147-155, ISSN 0254 – 7104, **2010**.
6. P. Chipurici, I. Calinescu, A. Gavrila, G. Predeanu, "Wastewater Treatment Using Multipurpose Carbon Materials" *UPB Sci. Bull. Series B*, vol 72, Iss. 2, p. 83-92, ISSN 1454 – 2331, **2010**.
7. G. Predeanu, S. Lambescu, V. Slavescu, D. Mihaescu, I. Calinescu, P. Chipurici, C. Panaitescu, A. I. Gavrila, „Wastewater treatment by the use of some new carbon based adsorbents”, *Chemical Engineering Transactions*, 15, p. 231-238, ISBN 978-88-95608-09-9, **2008**.
8. Petre Chipurici, Ioan Calinescu, Adina Ionuta Gavrila, Radu Avram, Trifan Adrian, Georgeta Predeanu, Silviu Lambescu, Valerica Slavescu “New environmentally friendly adsorbents used for petrochemical wastewater treatment” *Ovidius University Annals of Chemistry*, 18,(2), p. 152 - 156, ISSN 2286-038X **2007**.

CONFERENCES - Selection

1. I. Calinescu, I. Asofiei, A. Trifan, A.I. Gavrila, D. Ighigeanu, D. Martin, Microwave Assisted Extraction of Polyphenols from Sea Buckthorn Leaves, Romanian International Conference on Chemistry and Chemical Engineering RICCCCE XIX, Sibiu 2015, S2-45O
2. I. Calinescu, I. Asofiei, A. Trifan, A.I. Gavrila, D. Ighigeanu, D. Martin, A Semi-Continuous Process for Polyphenols Extraction from Sea Buckthorn Leaves, Romanian International Conference on Chemistry and Chemical Engineering RICCCCE XIX, Sibiu 2015, S2-44P
3. O.C. Parvulescu, A.I. Gavrila, T. Dobre, L. Ceatra, V.A. Ion, Slow Pyrolysis of Sorghum Waste: Distribution and Composition of Reaction Products, Romanian International Conference on Chemistry and Chemical Engineering RICCCCE XIX, Sibiu 2015, S4-177P
4. A.I. Gavrila, P. Chipurici, Surfactants from Renewable Sources, Romanian International Conference on Chemistry and Chemical Engineering RICCCCE XIX, Sibiu 2015, S4-200P
5. Ioan Calinescu, Gabriel Calin Ivopol, Maria Ivopol, Adina Ionuta Gavrila, Enzymatically preteated microwave assisted extraction of hemp (*Cannabis sativa* L.) seed oil, Romanian International Conference on Chemistry and Chemical Engineering, Sinaia **2013**, ISSN 2344-1895, S2-9
6. Microwave assisted extraction of essential oils from spearmint (*Mentha spicata* L.) Ioan Calinescu, Maria Ivopol, Gabriel Calin Ivopol, Adina Ionuta Gavrila, Romanian International Conference on Chemistry and Chemical Engineering, Sinaia **2013**, ISSN 2344-1895, S2-19
7. Ioan Calinescu, Diana Martin, Daniel Ighigeanu, Adina Gavrila, Adrian Trifan, Mariana Patrascu, Elena Manaila, Gabriela Craciun Nanoparticles synthesis by Electron Beam Radyolysis, , Romanian International Conference on Chemistry and Chemical Engineering, Sinaia **2013**, ISSN 2344-1895, S1-17
8. Ioan Calinescu, Mariana Patrascu, Adrian Trifan, Adina Ionuta Gavrila, Microwave assisted synthesis of silver nanoparticles in a continuous reactor, Romanian International Conference on Chemistry and Chemical Engineering, Sinaia **2013**, ISSN 2344-1895, S6-34
9. C. Chisega Negrita, E. Pasculete, P. Chipurici, I. Calinescu, A. Gavrila, A. Trifan, Hemicelluloses obtaining from biomass wastes used as raw materials for the production of xylitol, The 5th European and International conference eRENEWABLIA, eHYDROGENIA, eEFFICIENCIA, September 20-21, 2011, Bucharest
10. Jennifer Lemon; Andrea Armstrong; Shannon Parker; Francis Appoh; Adina Gavrila; Gurmit Singh; John Valliant "Synthesis and in vitro screening of uPAR-targeting peptides for SPECT imaging of aggressive tumors" *SNM Annual Meeting*, **2009**, 13-17 June, Toronto, Canada;
11. Petre Chipurici, Ioan Calinescu, Adina Ionuta Gavrila, Radu Avram, Trifan Adrian, Georgeta Predeanu, Silviu Lambescu, Valerica Slavescu "New environmentally friendly adsorbents used for petrochemical wastewater treatment" International Conference "New trends in petroleum refining", *Ovidius University Annals of Chemistry*, **2007**, 18,(2), p. 152 – 156.
12. Adina Ionuta Gavrila, Lambrache Papahagi, Petre Chipurici "Oxidation of p-tert-butyl-toluene in the presence of phthalocyanine catalysts hydrophylized with modified peptide structures", International Conference "New trends in petroleum refining", *Ovidius University Constanta*, 6-8 dec. **2007**, Ovidius University Press, ISBN 978-973-614-410-3 p.59-60
13. P. Chipurici, L. Papahagi, Adina Ionuta Gavrila "Toluene Alkylation with tert-Buthanol" *Romanian International Conference on Chemistry and Chemical Engineering RICCCCE XIV*, Bucuresti, 22-24 sept. **2005**, vol 3, pag. S07-61-68