

CURRICULUM VITAE

Informații personale

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Educație

Instituția	Domeniul principal de studiu	Perioada	Diploma
Academia Română, Institutul de Chimie Timișoara	Studiul mecanismului și stereochemiei în sinteza compușilor cu dublă legătură "carbon-carbon" prin intermediul compușilor fosforului	2001-2006	Diploma de Doctor
Universitatea de Vest din Timisoara, Romania	Chimia compușilor biologic activi	2000-2002	Diplomă de Master
Universitatea de Vest din Timisoara, Romania	Chimie	1996-2000	Diplomă de licență
Liceul Teoretic Mircea Eliade, Resita	Informatică	1992-1996	Diplomă de bacalaureat

Experiența profesională

Instituția	Departamentul	Perioada	Poziția
Academia Română, Institutul de Chimie "Coriolan Drăgulescu", Timisoara, Romania	Chimie Organică	Jan. 2015-present	Șef Program 2
Academia Română, Institutul de Chimie "Coriolan Drăgulescu", Timisoara, Romania	Chimie Organică	August 2021-present	Cercetător Științific (CS I)
Academia Română, Institutul de Chimie Timisoara, Romania	Chimie Organică	Dec.2014-August 2021	Cercetător Științific (CS II)
Academia Română, Institutul de Chimie Timisoara, Romania	Chimie Organică	Junie 2007 -Dec. 2014	Cercetător Științific (CS III)
Septembrie 2008-Septembrie 2010 - concediu de maternitate			
Academia Română, Institutul de Chimie Timisoara, Romania	Chimie Organică	Oct. 2004 - Junie 2007	Cercetător Științific (CS)
Universitatea din Leipzig, Institutul de Chimie Analitică, Germania	Chimie Analitică	Sept. 2003 - Oct. 2004	Student doctorand-Bursier Marie Curie
Academia Română, Institutul de Chimie Timisoara, Romania	Chimie Organică	Oct. 2000 - Sept. 2003	Asistent de cercetare

Competențele manageriale - director de proiect

1. Proiect IUPAC, Nr. 2007-035-1-300: Traducerea în limba română și diseminarea unei monografii pentru universități și licee pe tema "Schimbările climatice globale", Director de proiect, 12 luni (octombrie 2007 - septembrie 2008), 3600 €, <http://old.iupac.org/projects/2007/2007-035-1-300.html>
2. Proiect PN-II-RU-TE-2011-3-0092, Contract nr. 81/05.10.2011, *Rețele metal organice fosfonice: complexitate și diversitate în structuri și aplicații*, 36 luni, 165 700 €, Director de proiect, <http://acad-icht.tm.edu.ro/en/granturi/visa81.htm>.
3. Proiect PN-II-RU-TE-2014-4-1398, *Influența proprietăților fizico-chimice și structurale asupra activității catalitice a rețelelor metal organice fosfonice cu impact asupra mediului*, Contract nr. 56/01.10.2015, 24 luni, 124 000 €, Director de proiect, <http://acad-icht.tm.edu.ro/en/granturi/PHOSPHONATE-MOF.html>
4. Proiect PN-III-P1-1.1-TE-2016-2008, *Îndepărtarea poluanților din apele uzate cu ajutorul rețelelor metal organice convenționale și neconvenționale pe bază de fosfonați*, Contract nr. 18/02.05.2018, 24 luni, 100 000 €, Director de proiect, <http://acad-icht.tm.edu.ro/en/granturi>
5. Proiect PN-III-P1-P1-1.1-MC-2018-1422, Contract nr: 641/16.10.2018, Proiecte de mobilitate pentru cercetători -Universitatea Malaga, 18-26 iunie 2018, Malaga, Spania, 1900€.
6. Proiect PN-III-P1-P1-1.1-MC-2019-0669, Contract nr: 168/17.10.2019, Proiecte de mobilitate pentru cercetători - 12th International Conference on Advanced Nanomaterials, Aveiro, 16-19 iulie 2019, 1490€
7. Proiect IUPAC, Nr. 2021-014-1-1-041, Școala de vară privind chimia verde 2021, manager de proiect, 3 luni, 3400\$ <https://iupac.org/project/2021-014-1-041>
8. Proiect IUPAC, Nr. 2020-014-3-050, Gândire sistemică în chimie pentru sustenabilitate: spre 2030 și dincolo de 2030 (STCS 2030+), director de proiect, 36 luni, 8720 \$, <https://iupac.org/project/2020-014-3-050>
9. Proiect PN-III-P4-PCE-2021-0089, *Rețele metal organice: de la sinteza verde la aplicații prietenoase cu mediul înconjurător*, Contract Nr. PCE 24/2022, 32 luni, 250 000 €, director de proiect, https://acad-icht.tm.edu.ro/wp/?page_id=345

Afilieri

1. Membru IUPAC din 2005 și membru asociat în Comitetul IUPAC pentru chimie verde (2007-2016), membru asociat în IUPAC- ICGCSD (2020-2021; 2022-2023; 2024-2025).); <https://iupac.org/member/aurelia-pascariu/>
2. Membru al Societății Române de Chimie din 2004

Recomandări

Prof. Boxing Han, Institute of Chemistry, Chinese Academy of Sciences, Beijing, China, hanbx@iccas.ac.cn

Prof. Aurelia Cabeza, Malaga University, Spain, e-mail: aurelio@uma.es

Prof. Gary Hix, University of Wolverhampton, UK, e-mail: G.Hix@wlv.ac.uk

Prof. Fabio Arico, Ca' Foscari University of Venice, Italy, e-mail: fabio.arico@unive.it

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IUPAC: <https://iupac.org/member/aurelia-pascariu/>

GOOGLE SCHOLAR: <https://scholar.google.com/citations?user=NahpPCEAAAAJ&hl=en>

RESEARCH GATE: https://www.researchgate.net/profile/Aurelia_Visa

Lista celor mai reprezentative lucrări științifice:

- M. Ackermann, **A. Pascariu**, T. Hoecher, H.U. Siehl, S. Berger, Electronic Properties of Furyl Substituents at Phosphorus and their Influence on ^{31}P NMR Chemical Shifts, *J. Am. Chem.Soc.*, **2006**, 128 (26), 8434-8440
- S. Iliescu, G. Iliu, N. Plesu, A. Popa, **A. Pascariu**: Solvent and catalyst-free synthesis of polyphosphates, *Green Chem.*, **2006**, 8(8), 727-730
- S. Iliescu, G. Iliu, **A. Pascariu**, N. Plesu, Organic solvent-free synthesis of phosphorus-containing polymers, *Pure Appl. Chem.* **2007**, 79(11), 1879-1884
- **A. Pascariu**, M. Mracec, S. Berger, Dynamic NMR study of the oxaphosphetane complexation with lithium during the Wittig reaction, *Int. J. Quant. Chem.*, **2008**, 108, 1052-1058
- **A. Pascariu**, S. Iliescu, A. Popa, G. Iliu, Polydentate phosphines, *Journal of Organometallic Chemistry*, **2009**, 694(25), 3982-4000
- B. Maranescu, **A. Visa**, G. Iliu, Z. Simon, K. Demadis, R.M.P.Colodrero, A. Cabeza, O. Vallcorba, J. Rius, D. Choquesillo-Lazarte, *Synthesis and characterization of styryl phosphonic acid and its use as new ligand for phosphonate metal organic framework*, *J. Coord. Chem.*, **2014**, 67:9, 1562-1572
- Maranescu B., Lupa L., **Visa A**, Synthesis, characterizations and Pb(II) sorption properties of cobalt phosphonate materials, *Pure. Appl. Chem.*, **2016**, 88(10-11), 979-992,
- Maranescu B., Popa A., Lupa L., Maranescu V., **Visa A.**, Use of chitosan complex with aminophosphonic groups and cobalt for the removal of Sr^{2+} ions, *Separation Science and Technology*, **2018**, 53, 1058-1064,
- Maranescu B., Plesu N., **Visa A**, Phosphonic acid vs phosphonate metal organic framework influence on mild steel corrosion protection, *Appl. Surface Sci.* **2019**, 497, 143734
- Maranescu B., Lupa L., **Visa A.**, Synthesis, characterization and rare earth elements adsorption properties of phosphonate metal organic frameworks, *Appl. Surface Sci.* **2019**, 481, 83–91
- Nistor Maria A., Muntean S. G., Maranescu B., **Visa A.**, Phosphonate metal organic frameworks used as dyes removal materials from wastewaters, *Appl. Organomet. Chem.*, **2020**, Article Number: e5939
- Song, J; Hua,M; Huang, X; **Visa,A**; Wu, T; Hou, M; Zhang, Z; Buxing Han, B, Highly Efficient Meerwein-Ponndorf-Verley Reductions Over a Robust Zirconium-Organoboronic Acid Hybrid, *Green Chem.*, **2021**, <https://doi.org/10.1039/D0GC04179C>
- B. Maranescu, **A. Visa**, Applications of Metal-Organic Frameworks as Drug Delivery Systems. *Int. J. Mol. Sci.* 2022, 23, 4458. <https://doi.org/10.3390/ijms23084458>
- Á. Vílchez-Cózar, E. Armakola, M. Gjika, **A. Visa**, M. Bazaga-García, P. Olivera-Pastor, D. Choquesillo-Lazarte, D. Marrero-López, A. Cabeza, R.M.P. Colodrero, K.D. Demadis, Exploiting the Multifunctionality of M^{2+} /Imidazole–Etidronates for Proton Conductivity (Zn^{2+}) and Electrocatalysis (Co^{2+} , Ni^{2+}) toward the HER, OER, and ORR, *ACS Appl. Mater. Interfaces* **2022**, 14, 11273–11287 <https://doi.org/10.1021/acsami.1c21876>
- Plesu N., Maranescu B., Mihali M., **Visa A**. The electrochemical oxidation of spent metal organic framework impregnated with ionic liquid, phenol degradation, *Journal of Composites Science*, 2023, 7(12), 510L
- Lupa, N.S. Tolea, M. Iosivoni, M. Maranescu, N. Plesu, **A. Visa** Performance of ionic liquid functionalized metal organic frameworks in the adsorption process of phenol derivatives, *RSC Adv.*, **2024**, 14, 4759

Cărți și capitole de carte

1. B. Maranescu, **A. Visa**, Metal-Organic Framework Composites IPMC Sensors and Actuators, Inamuddin and A. M. Asiri (eds.), *Ionic Polymer Metal Composites for Sensors and Actuators*, Engineering Materials, Springer Publisher, **2019**, 1-18
2. **A. Visa**, B. Maranescu, Gh. Iliu, Chapter IV - Hypophosphorous acid and its salts as reagents in organophosphorus chemistry, in *Chemistry Beyond Chlorine*, Ed. P. Tundo, 2016, Springer International Publishing Switzerland, ISBN: 978-3-319-30071-9

3. **A. Pascariu**, M. Crisan, Schimbarea Globala a Climei, 2008 Editura Universitati de Vest, ISBN 88-88214-12-7, (text original in italiana: F. Zecchini, „Il Cambiamento Globale del Clima”).

Aprecieri internaționale

1. **Dr. Aurelia Visa** - Experți externi invitați și rambursați la Atelierul privind denumirile chimice și traducerea acestora, 17 noiembrie - 18 noiembrie 2011, Bruxelles, Belgia- (900 Euro)

<http://www.chemistry2011.org/participate/activities/show?id=1642>

Burse acordate prin selecție de comitetul de organizare a:

2007 - The 41st IUPAC World Chemistry Congress, 5-11 August 2007, Turin, Italy - Young Chemist Program, **IUPAC grant**

2007-Complexing Agents between Science, Industry, Authorities and Users, Monte Verità, Ascona, Switzerland, 11-16 March, 2007 - **Swiss National Science Foundation grant**

2006- Third Humboldt Conference on Computational Chemistry, Varna, Bulgaria, 24-28 June 2006 - **Humboldt fellowship**

2006- First International IUPAC Conference on Green-Sustainable Chemistry, Dresda, Germany, 10-15 September 2006 - **IUPAC grant**

2006- New Organic Reactions and Methodologies for Green Production, Lecce, Italy, 29 October - 11 November 2006 - **NATO grant**

2003- 39th IUPAC Congress and 86th Conference of the Canadian Society for Chemistry, Ottawa, Canada, 10-15 August -**IUPAC grant**

2002- The Fifth International Symposium on Functional π Electron System, Germania, Ulm, 30 May-4 June-**IUPAC grant**

Premii Internationale

2007 IUPAC YOUNG OBSERVER AWARD - la cea de-a 44-a ADUNARE GENERALĂ IUPAC, 4-12 august 2007, la Torino, Italia, unul dintre cei 17 cercetători din întreaga lume (6 SUA, 6 Marea Britanie, 1 Mauritius, 1 Polonia, 1 Canada, 1 România, 1 Rusia): <http://old.iupac.org/general/Young-Observer/past-participants.html>

Prezentări orale (selecție)

- Visa A., Maranescu B., Lupa L., Green alternative approaches to the synthesis of Metal Organic Frameworks, **4th International Conference on Phosphonate Chemistry, Science and Technology, 2-4 Octombrie 2023, Heraklion, Greece,**
- Visa A., Maranescu B., Plesu N., Lupa L., Greener alternatives for phosphonate Metal Organic Frameworks synthesis, **Smart Diaspora 2023, 10-13 Aprilie 2023, Timisoara, Romania**
- Visa A., Maranescu B., Lupa L., Metal(II) coordination polymers based on bisphosphonates or mixed imidazole ligands and bisphosphonates: green syntheses and applications, **8th International Workshop of Materials Physics, 17-19 Mai 2023, Magurele, Romania**
- Visa A., Greener Alternatives for Phosphonate Metal-Organic Frameworks Synthesis and Applications, **15th Green Chemistry Postgraduate Summer School, 2-7 Iulie 2023, Venetia, Italia**
- Visa A., Maranescu B., Popa A., Lupa L., Metal organic frameworks: from green synthesis to green applications, **A XXXVI-a Conferinta nationala de chimie – CNChim, Octombrie 5-7, 2022, Calimanesti – Caciulata, Romania**

- Visa A., Maranescu B., Lupa L., Ionic Liquids-modified Metal Organic Frameworks: Preparation and Application in Adsorption, **9th IUPAC International Conference on Green Chemistry (9th ICGC), 5-9 September 2022, Athens, Greece**
- Visa A., Multifunctional organic, hybrid, and polymeric compounds with controlled properties and applications, **EU-OPENSREEN DRIVE Workshop "Medicinal Chemistry in Drug Discovery, New Therapeutical Approaches", 19 Octombrie 2022, Timisoara**
- Visa A., Challenges in sustainable chemistry for developing perspectives on education, the environment, and health, **BeHEALTH2022, 25-27 Octombrie 2022, Bucuresti, Romania**
- Visa A., Maranescu B., Lupa L., Metal organic frameworks: complexity and diversity in structures and green applications, **13th Green Chemistry Postgraduate Summer School Online, 4-10 July 2021, Venetia, Italia**
- Visa, B. Maranescu, L. Lupa, Synthetic parameters influence on adsorption properties of metal organic frameworks based on phosphonates, **Advanced Functional Materials Spectroscopy & Electrochemistry Congress, 24-27 March 2019, Stockholm, Suedia**
- A.Visa, Phosphonate Metal Organic Frameworks with N-donor Auxiliary Ligands: Diversity and Complexity in Structure and Applications **12th International Conference on Advanced Nanomaterials, 17-19 July 2019, Aveiro, Portugal**
- Aurelia Vişa, Bianca Maranescu, Lavinia Lupa, Synthesis, Characterization and Rare Earth Elements Adsorption Properties of Phosphonate Metal Organic Frameworks, **11th International Conference on Advanced Nanomaterials, 18-20 July 2018, Aveiro, Portugal**
- Aurelia Visa, Bianca Maranescu, Lavinia Lupa, Alexandra Bucur, *Phosphonate metal organic frameworks: from synthesis to applications*, Proceedings of the 9th Symposium New Trends and Strategies in the Chemistry of Advanced Materials, Timisoara, Romania, 9-10 iunie **2016**, p.19
- Maranescu, Lavinia Lupa, Aurelia Visa, *Impressive diversity of applications for phosphonate metal organic frameworks*, 16th IUPAC Conference Polymer Organic Chemistry, 13-16 June **2016**, Hersonissos, Crete, Greece, OR 31, p. 62
- Aurelia Visa, Bianca Maranescu, Ramona Grama, Andreea Gabor, *Phosphonate metal organic frameworks as efficient heterogeneous catalyst*, 6th EuCheMS Chemistry Congress, Seville, Spain, 11-16 September **2016**, No. 938
- Invited talk, University Leipzig, Germany, Phosphonate divalent metal organic framework. Synthesis and structural analysis, 03 September **2014**

Timisoara,
02.04.2024

Dr. Aurelia Visa