ACADEMIA ROMÂNĂ
SCOSAAR

Anexa nr.3

AVIZAT,

Director ȘCOALA DOCTORALĂ DE ȘTIINȚE CHIMICE

Dr. MIHAI Marcela Marcela Mihai

Digitally signed by Marcela Mihai
DN: c=RO, cn=Marcela Mihai, serialNumber=MM1364, givenName=Marcela, sn=Mihai
Date: 2025.05.06 15:11:01 +03'00'

1. Îndeplinirea standardelor IOSUD superioare standardelor minimale naţionale* [] DA| [] | NU

2. Îndeplinirea standardelor IOSUD egale standardelor minimale naţionale* [X] DA| [] | NU

FIŞA DE ÎNDEPLINIRE A STANDARDELOR IOSUD

FIŞA DE VERIFICARE
a îndeplinirii standardelor IOSUD

Candidat: Dr. VIȘA Aurelia-Sorina

Data: 04.04.2025

Semnătura:

ACADEMIA ROMÂNĂ
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FIŞA DE VERIFICARE

a îndeplinirii standardelor minimale

Categorie Habilitare	N_{max} (*)	FIC (**)	FIC_D (***)	FIC_{AP} (****)	FIC_{AC} (*****)	h index
Cerințe	50	100	70	50	25	13
Realizat	50	**155,446**	**134,384**	**82,322**	**59,218**	**18**

(*) N_{max} – primele maxim N lucrari, organizate in ordinea descrescatoare a factorilor de impact a revistelor in care au fost publicate;
(**) FIC – factorul de impact cumulat minimal al revistelor in care s-au publicat lucrarile in cauza;
(***)FIC_D – factorul de impact cumulat minimal din publicatii in domeniile de cercetare declarate;
(****) FIC_{AP} – factorul de impact cumulat minimal din publicatii in calitate de autor principal (prim-autor si autor de corespondenta);
(*****) FIC_{AC} – factorul de impact cumulat minimal din publicatii in calitate de autor de corespondenta;

Nr. crt	**Lucrarea**	**FIC An publicație**	**FIC_D**	**FIC_{AP}**	**FIC_{AC}**
1	Song, J.; Hua, M.; Huang, X.; **Visa, A.**; Wu, T.; Hou, M.; Zhang, Z.; Han, B. Highly Efficient Meerwein-Ponndorf-Verley Reductions Over a Robust Zirconium-Organoboronic Acid Hybrid. *Green Chem.* **2021,** *23* (4), 1259–1265. https://doi.org/10.1039/D0GC04179C.	11.034	11.034		
2	Vílchez-Cózar, Á.; Armakola, E.; Gjika, M.; **Visa, A.**; Bazaga-García, M.; Olivera-Pastor, P.; Choquesillo-Lazarte, D.; Marrero-López, D.; Cabeza, A.; Colodrero, R. M. P.; Demadis, K. D. 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* (9), 11273–11287. https://doi.org/10.1021/acsami.1c21876	9.5	9.5		
3	Ackermann, M.; **Pascariu, A.**; Hocher, T.; Siehl, H. U.; Berger, S. 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. https://doi.org/10.1021/ja057085u.	7.696	7.696		
4	Maranescu, B.; Plesu, N.; **Visa, A.** Phosphonic Acid vs Phosphonate Metal-Organic Framework Influence on Mild Steel Corrosion Protection. *Appl. Surf. Sci.* **2019,** *497,* 143734. https://doi.org/10.1016/j.apsusc.2019.143734.	6.182	6.182	6.182	6.182
5	Maranescu, B.; Lupa, L.; **Visa, A.** Synthesis, Characterization and Rare Earth Elements Adsorption Properties of Phosphonate Metal-Organic Frameworks. *Appl. Surf. Sci.* **2019,** *481,* 83–91. https://doi.org/10.1016/j.apsusc.2019.03.067.	6.182	6.182	6.182	6.182

6	Maranescu, B.; **Visa, A.** Applications of Metal-Organic Frameworks as Drug Delivery Systems. *Int. J. Mol. Sci.* **2022,** *23* (9), 4458. https://doi.org/10.3390/ijms23084458	5.6	5.6	5.6	5.6
7	Marganovici, M.; Maranescu, B.; **Visa, A.**; Lupa, L.; Hulka, I.; Chiriac, V.; Ilia, G. Hybrid Coordination Networks for Removal of Pollutants from Wastewater. *Int. J. Mol. Sci.* **2022,** *23* (23), 12611. https://doi.org/10.3390/ijms232012611	5.6	5.6		
8	Plesu, N.; Crisan, L.; Maranescu, B.; Popa, A.; **Visa, A.** Exploring Corrosion Protection with Greener Synthesized Metal Phosphonates. *Sustainable Chem. Pharm.* **2025,** *44,* 101970. https://doi.org/10.1016/j.scp.2025.101970.	5.5	5.5	5.5	5.5
9	**Visa, A.;** Plesu, N.; Maranescu, B.; Ilia, G.; Borota, A.; Crisan, L. Combined Experimental and Theoretical Insight into the Corrosion Inhibition Activity on Carbon Steel Iron of Phosphonic Acids. *Molecules* **2021,** *26* (1), 35. https://doi.org/10.3390/molecules26010135	4.927	4.927	4.927	
10	Bazaga-García, M.; Vílchez-Cózar, Á.; Maranescu, B.; Olivera-Pastor, P.; Marganovici, M.; Ilia, G.; Cabeza Díaz, A.; **Visa, A.**; Colodrero, R. M. P. Synthesis and Electrochemical Properties of Metal(II)-Carboxyethylphenylphosphinates. *Dalton Trans.* **2021,** *50* (16), 6539–6548. https://doi.org/10.1039/D1DT00104C.	4.569	4.569	4.569	
11	**Visa, A.;** Maranescu, B.; Lupa, L.; Crisan, L.; Borota, A. New Efficient Adsorbent Materials for the Removal of Cd(II) from Aqueous Solutions. *Nanomaterials* **2020,** *10* (5), 899. https://doi.org/10.3390/nano10050899.	4.324	4.324	4.324	
12	Iliescu, S.; Ilia, G.; Plesu, N.; Popa, A.; **Pascariu, A.** Solvent and Catalyst-Free Synthesis of Polyphosphates. *Green Chem.* **2006,** *8* (8), 727–730. https://doi.org/10.1039/b602462a.	4.192	4.192		
13	**Visa, A.;** Ilia, G.; Lupa, L.; Maranescu, B. Use of Highly Stable Phosphonate Coordination Polymers as Adsorbents for Wastewater. *Appl. Organomet. Chem.* **2021,** *35* (5), e6184. https://doi.org/10.1002/aoc.6184	4.072		4.072	
14	Lupa, L.; Tolea, N. S.; Iosivoni, M.; Maranescu, M.; Plesu, N.; **Visa, A.** Performance of Ionic Liquid Functionalized Metal-Organic Frameworks in the Adsorption Process of Phenol Derivatives. *RSC Adv.* **2024,** *14* (9), 4759. https://doi.org/10.1039/D3RA08024B	3.9	3.9	3.9	3.9
15	Popa, S.; Iliescu, S.; Ilia, G.; Plesu, N.; Popa, A.; **Visa, A.;** Macarie, L. Solid Polymer Electrolytes Based on Phosphorus-Containing Polymers for Lithium Polymer Batteries. *Eur. Polym. J.* **2017,** *94,* 286–298.	3.741	3.741		

	https://doi.org/10.1016/j.eurpolymj.2017.07.017.				
16	Plesu, N.; Maranescu, B.; Tara-Lunga-Mihali, M.; **Visa, A.** Electrochemical Oxidation of Phenol Released from Spent Coordination Polymer Impregnated with Ionic Liquid. *J. Compos. Sci.* **2023,** *7* (12). https://doi.org/10.3390/jcs7120510	3.3	3.3	3.3	3.3
17	Plesu, N.; Macarie, L.; Tara-Lunga-Mihali, M.; Maranescu, B.; **Visa, A.;** Jurcau, D. Polyester-Based Coatings with a Metal Organic Framework: An Experimental Study for Corrosion Protection. *J. Compos. Sci.* **2023,** *7* (10). https://doi.org/10.3390/jcs7100422	3.3	3.3	3.3	3.3
18	Wissinger, J.; **Visa, A.;** Saha, B.; Matlin, S.; Mahaffy, P.; Kümmerer, K.; Cornell, S. Integrating Sustainability into Learning in Chemistry. *J. Chem. Educ.* **2021,** *98* (4), 1061–1063. https://doi.org/10.1021/acs.jchemed.1c00284	3.208	3.208		
19	Ardelean, R.; Popa, A.; **Visa, A.** Synthesis, Characterization and Applications of Poly(Styrene-Co-Divinylbenzene) Functionalized with Aminophosphinic Acid Pendant Groups as High-Performance Adsorbents for Acetylsalicylic Acid. *Polym. Bull.* **2024.** https://doi.org/10.1007/s00289-023-05123-7.	3.2	3.2		
20	Nistor, M. A.; Muntean, S. G.; Maranescu, B.; **Visa, A.** Phosphonate Metal-Organic Frameworks Used as Dye Removal Materials from Wastewaters. *Appl. Organomet. Chem.* **2020,** *34* (11), e5939. https://doi.org/10.1002/aoc.5939.	3.14	3.14	3.14	3.14
21	Iliescu, S.; Ilia, G.; **Pascariu, A.;** Popa, A.; Plesu, N. Novel Synthesis of Phosphorus-Containing Polymers under Inverse Phase Transfer Catalysis. *Polymer* **2006,** *47* (19), 6509–6512. https://doi.org/10.1016/j.polymer.2006.07.062.	2.773	2.773		
22	Micle, A.; Miklasova, N.; Varga, R. A.; **Pascariu, A.**; Plesu, N.; Petric, M.; Ilia, G. A Versatile Synthesis of a New Bisiminophosphorane. *Tetrahedron Lett.* **2009,** *50* (40), 5622–5624. https://doi.org/10.1016/j.tetlet.2009.07.112.	2.66		2.66	2.66
23	Maranescu, B.; Lupa, L.; **Visa, A.** Synthesis, Characterization and Pb(II) Sorption Properties of Cobalt Phosphonate Materials. *Pure Appl. Chem.* **2016,** *88* (10–11), 979–992. https://doi.org/10.1515/pac-2016-0709.	2.626	2.626	2.626	2.626
24	Demadis, K. D.; Tsistraki, A.; Popa, A.; Ilia, G.; **Visa, A.** Promiscuous Stabilization Behavior of Silicic Acid by Cationic Macromolecules: The Case of Phosphonium-Grafted Dicationic Ethylene Oxide Bolaamphiphiles. *RSC Adv.* **2012,** *2* (2), 631–641. https://doi.org/10.1039/c1ra00448d.	2.562			
25	Radulescu-Grad, M. E.; **Visa, A.;** Milea, M. S.; Laza,	2.463			

	R. I.; Popa, S.; Funar-Timofei, S. Synthesis, Spectral Characterization, and Theoretical Investigations of a New Azo-Stilbene Dye for Acrylic Resins. *J. Mol. Struct.* **2020,** *1217,* 128380. https://doi.org/10.1016/j.molstruc.2020.128380.				
26	Maranescu, B.; Lupa, L.; Mihali, M. T. L.; Plesu, N.; Maranescu, V.; **Visa, A.** The Corrosion Inhibitor Behavior of Iron in Saline Solution by the Action of Magnesium Carboxyphosphonate. *Pure Appl. Chem.* **2018,** *90* (11), 1713–1722. https://doi.org/10.1515/pac-2018-0513.	2.35	2.35	2.35	2.35
27	Maranescu, B.; Lupa, L.; **Visa, A.** Heavy Metal Removal from Waste Waters by Phosphonate Metal Organic Frameworks. *Pure Appl. Chem.* **2018,** *90* (1), 35–47. https://doi.org/10.1515/pac-2017-0307.	2.35	2.35	2.35	2.35
28	**Pascariu, A.;** Iliescu, S.; Popa, A.; Ilia, G. Polydentate Phosphines. *J. Organomet. Chem.* **2009,** *694* (25), 3982–4000. https://doi.org/10.1016/j.jorganchem.2009.08.031.	2.347	2.347	2.347	
29	Iliescu, S.; Ilia, G.; **Pascariu, A.;** Popa, A.; Plesu, N. Organic Solvent-Free Synthesis of Phosphorus-Containing Polymers. *Pure Appl. Chem.* **2007,** *79* (11), 1879–1884. https://doi.org/10.1351/pac200779111879.	2.232	2.232		
30	Nichita, I.; Lupa, L.; **Visa, A.;** Popa, A. One-Pot Synthesis, Characterization and *In Vitro* Antibacterial Evaluation of Bioactive Aminophosphinic Acid Groups Grafted onto Polymeric-Support. *Polym. Bull.* **2020.** https://doi.org/10.1007/s00289-020-03219-y.	2.014			
31	Maranescu, B.; **Visa, A.;** Ilia, G.; Simon, Z.; Demadis, K. D.; Colodrero, R. M. P.; Cabeza, A.; Vallcorba, O.; Rius, J.; Choquesillo-Lazarte, D. Synthesis and Structural Characterization of 2-D Layered Copper(II) Styrylphosphonate Coordination Polymers. *J. Coord. Chem.* **2014,** *67* (9), 1562–1572. https://doi.org/10.1080/00958972.2014.928289	2.012	2.012	2.012	2.012
32	**Visa, A.;** Maranescu, B.; Ilia, G. Chapter IV - Hypophosphorous Acid and Its Salts as Reagents in Organophosphorus Chemistry. In *Chemistry Beyond Chlorine*; Tundo, P., Ed.; Springer International Publishing Switzerland, **2016**; ISBN: 978-3-319-30071-9.	2	2	2	2
33	Maranescu, B.; **Visa, A.** Metal-Organic Framework Composites IPMC Sensors and Actuators. In *Ionic Polymer Metal Composites for Sensors and Actuators*, Inamuddin; Asiri, A. M., Eds.; Springer, **2019**; pp 1–18. https://doi.org/10.1007/978-3-030-13728-1_1.	2	2	2	2
34	Cocheci, L.; Lupa, L.; Pop, A.; **Visa, A.;** Maranescu,	1.755			

	B.; Popa, A. Photocatalytical Degradation of Congo Red Azo Dye Using Phosphono-Aminoacid-Cd(II) Pendant Groups Grafted on a Polymeric Support. *Rev. Chim.* **2019,** *70* (10), 3473–3476.				
35	Nichita, I.; Lupa, L.; Gros, R.; **Visa, A.;** Popa, A.; Bucur, I.; Tirziu, E. The Effect of Cellulose Acetate in the Inhibition of Bacteria: An Alternative for Antimicrobial Resistance. *Rev. Chim.* **2020,** *71* (9), 23–31. https://doi.org/10.37358/RC.20.9.8313.	1.755			
36	Plesu, N.; Ilia, G.; **Pascariu, A.;** Vlase, G. Preparation, Degradation of Polyaniline Doped with Organic Phosphorus Acids and Corrosion Essays of Polyaniline-Acrylic Blends. *Synth. Met.* **2006,** *156* (2–4), 230–238. https://doi.org/10.1016/j.synthmet.2005.11.006	1.685			
37	**Pascariu, A.;** Mracec, M.; Berger, S. Saturation Transfer and Chemical Exchange Measurements of the Stereochemical Drift Occurring during the Wittig Reaction. *Magn. Reson. Chem.* **2005,** *43* (6), 451–456. https://doi.org/10.1002/mrc.1573.	1.553	1.553	1.553	
38	Mracec, M.; **Pascariu, A.;** Berger, S.; Mracec, M. New Possible Ionic Structures in Wittig Reaction - Analysis of Stability and Rotation Barriers by Semiempirical PM3 Method. *Int. J. Quantum Chem.* **2007,** *107* (8), 1782–1793. https://doi.org/10.1002/qua.21298.	1.368	1.368	1.368	1.368
39	Lupa, L.; Maranescu, B.; **Visa, A.** Equilibrium and Kinetic Studies of Chromium Ions Adsorption on Co(II)-Based Phosphonate Metal Organic Frameworks. *Sep. Sci. Technol.* **2018,** *53* (7), 1017–1026. https://doi.org/10.1080/01496395.2017.1340953.	1.354	1.354	1.354	1.354
40	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. *Sep. Sci. Technol.* **2018,** *53* (7), 1058–1064. https://doi.org/10.1080/01496395.2017.1304961.	1.354	1.354	1.354	1.354
41	**Pascariu, A.;** Mracec, M.; Berger, S. Dynamic NMR Study of the Oxaphosphetane Complexation with Lithium during the Wittig Reaction. *Int. J. Quantum Chem.* **2008,** *108* (6), 1052–1058. https://doi.org/10.1002/qua.21602.	1.317	1.317	1.317	1.317
42	**Visa, A.;** Mracec, M.; Maranescu, B.; Maranescu, V.; Ilia, G.; Popa, A.; Mracec, M. Structure Simulation into a Lamellar Supramolecular Network and Calculation of the Metal Ions/Ligands Ratio. *Chem. Cent. J.* **2012,** *6*, 91. https://doi.org/10.1186/1752-153X-6-91.	1.312	1.312	1.312	
43	Iliescu, S.; Grozav, I.; Plesu, N.; **Pascariu, A.**; Ilia, G. Design of Experiments Applied to the Study of the	1.245	1.245		

	Reaction between Phenylphosphonic Dichloride with Bisphenol by Inverse Phase Transfer Catalysis Method. *Polym. Eng. Sci.* **2008,** *48* (7), 1304–1311. https://doi.org/10.1002/pen.21097.				
44	Popa, A.; Avram, E.; Lisa, G.; **Visa, A.**; Iliescu, S.; Parvulescu, V.; Ilia, G. Crosslinked Polysulfone Obtained by Wittig-Horner Reaction in Biphase System. *Polym. Eng. Sci.* **2012,** *52* (2), 352–359. https://doi.org/10.1002/pen.22089.	1.243	1.243		
45	Iliescu, S.; Avram, E.; **Visa, A.;** Plesu, N.; Popa, A.; Ilia, G. New Technique for the Synthesis of Polyphosphoesters. *Macromol. Res.* **2011,** *19* (11), 1186–1191. https://doi.org/10.1007/s13233-011-1111-6.	1.153	1.153		
46	Popa, A.; Parvulescu, V.; Tablet, C.; Ilia, G.; Iliescu, S.; **Pascariu, A.** Heterogeneous Catalysts Obtained by Incorporation of Polymer-Supported Phosphonates into Silica Used in Oxidation Reactions. *Polym. Bull.* **2008,** *60* (1), 149–158. https://doi.org/10.1007/s00289-007-0844-z.	1.127			
47	Iliescu, S.; **Pascariu, A.;** Plesu, N.; Popa, A.; Macarie, L.; Ilia, G. Unconventional Method Used in Synthesis of Polyphosphoesters. *Polym. Bull.* **2009,** *63* (4), 485–495. https://doi.org/10.1007/s00289-009-0107-2.	1.014	1.014		
48	Popa, A.; Ilia, G.; Davidescu, C. M.; Iliescu, S.; Plesu, N.; **Pascariu, A.**; Zhang, Z. Wittig-Horner Reactions on Styrene-Divinylbenzene Supports with Benzaldehyde Side-Groups. *Polym. Bull.* **2006,** *57* (2), 189–197. https://doi.org/10.1007/s00289-006-0553-z.	0.969			
49	Ilia, G.; Iliescu, S.; Popa, A.; **Visa, A.**; Maranescu, B.; Simulescu, V.; Pekar, M.; Badea, V. Poly(Alkylene-H-Phosphonate)s Obtained by Direct Esterification and Oxidation of Hypophosphorous Acid with Ethylene Glycol. *J. Macromol. Sci. Part A-Pure Appl. Chem.* **2016,** *53* (1), 49–54. https://doi.org/10.1080/10601325.2016.1110458.	0.963	0.963		
50	**Visa, A.;** Maranescu, B.; Bucur, A. Spectroscopic Properties of New Cerium Metal-Organic Framework Based on Phosphonate Ligands with Vinyl Functional Group. *Phosphorus Sulfur Silicon Relat. Elem.* **2015,** *190* (5–6), 959–960. https://doi.org/10.1080/10426507.2014.995298.	0.723	0.723	0.723	0.723
	Total	**155,446**	**134,384**	**82,322**	**59,218**

ACADEMIA ROMÂNĂ
SCOSAAR

Indicele Hirsch (h_{index}) - Web of Science: 18

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Data:
31.03.2025

Dr. VIŞA Aurelia-Sorina