

**Fișa de îndeplinire a standardelor UAIC pe domeniul Chimie ale Universității
„Alexandru Ioan Cuza” din Iași în vederea promovării la postul de Profesor universitar
Candidat
Conf. univ. dr. habil. Laura Gabriela SÂRBU**

Listă articole în ordinea descrescătoare a factorului de impact

Nr. Crt.	Articol	FI din anul publicării (WOS)				Articole din ultimii 5 ani (2021-2025)			
		FIC	FIC _D	FIC _{AP}	FIC _{AC}	FIC	FIC _D	FIC _{AP}	FIC _{AC}
1	Chirita, P.; Duinea, M.I.; Sandu, A.M.; Birsă, L.M.; Sarbu, L.G.; Baibarac, M.; Sava, F.; Popescu, M.; Matei, E. Inhibitory effect of three phenacyl derivatives on the oxidation of sphalerite (ZnS) in air-equilibrated acidic solution. Corrosion Science 2018, 138, 154-162. https://doi.org/10.1016/j.corsci.2018.04.017	6.355	6.355						
2	Birsă, M.L.; Sarbu, L.G. A Structure–Activity Relationship Study on the Antioxidant Properties of Dithiocarbamic Flavanones. Antioxidants 2024, 13, 963. https://doi.org/10.3390/antiox13080963	6	6	6	6	6	6	6	6
3	Babii, C.; Savu, M.; Motrescu, I.; Birsă, L.M.; Sarbu, L.G.; Stefan, M. The Antibacterial Synthetic Flavonoid BrCl-Flav Exhibits Important Anti-Candida Activity by Damaging Cell Membrane Integrity. Pharmaceuticals 2021, 14, 1130. https://doi.org/10.3390/ph14111130	5.215	5.215	5.215	5.215	5.215	5.215	5.215	5.215
4	Bahrin, L.G.; Sarbu, L.G.; Jones, P.G.; Birsă, L.M.; Hopf, H. [2.2]Paracyclophane-Bis(triazole) Systems: Synthesis and Photochemical Behavior. Chem. Eur. J. 2017, 23 (50), 12338-12345. https://doi.org/10.1002/chem.201701593	5.16	5.16						
5	Sarbu, L.G.; Dumitru, A.A.; Savu, M.; Sandu, I.A.; Bahrin, L.G.; Stefan, M.; Birsă, M.L. The Antimicrobial and Cytotoxicity Properties of New Dibrominated 1,3-Dithiolium Flavonoids. Pharmaceuticals 2026, 19, 259. https://doi.org/10.3390/ph19020259	4.8	4.8	4.8					
6	Birsă, M.L.; Sarbu, L.G.* Iodine-Substituted Dithiocarbamic Flavanones—A Structure–Activity Relationship Study of Their Antioxidant Properties. Molecules 2025, 30, 2280. https://doi.org/10.3390/molecules30112280	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
7	Sarbu, L.G.*; Rosca, I.; Birsă, M.L. Antibacterial and Antifungal Properties of New Synthetic Tricyclic Flavonoids. Antibiotics 2025, 14, 307. https://doi.org/10.3390/antibiotics14030307	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
8	Bahrin, L.G.; Nicolescu, A.; Shova, S.; Marangoci, N.L.; Birsă, L.M.; Sarbu, L.G. Nitrogen-Based Linkers with a Mesitylene Core: Synthesis and Characterization. Molecules 2021, 26, 5952. https://doi.org/10.3390/molecules26195952	4.927	4.927	4.927	4.927	4.927	4.927	4.927	4.927
9	Birsă, M.L.; Sarbu, L.G. Hydroxy Chalcones and Analogs with Chemopreventive Properties. Int. J. Mol. Sci. 2023, 24, 10667. https://doi.org/10.3390/ijms241310667	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
10	Birsă, M.L.; Sarbu, L.G. Novel Dithiocarbamic Flavanones with Antioxidant Properties—A Structure–Activity Relationship Study. Int. J. Mol. Sci. 2024, 25, 13698. https://doi.org/10.3390/ijms252413698	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
11	Birsă, M.L.; Sarbu, L.G. Health Benefits of Key Constituents in Cichorium intybus L. Nutrients 2023, 15, 1322. https://doi.org/10.3390/nu15061322	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
12	Moldovan, C.-V.; Savu, M.; Dussert, E.; Aboubacar, H.; Sarbu, L.G.; Matiu, S.; Cudennec, B.; Krier, F.; Ravallec, R.; Birsă, L.M.; et al. Synthetic Flavonoid BrCl-Flav—An Alternative Solution to Combat ESKAPE Pathogens. Antibiotics 2022, 11, 1389. https://doi.org/10.3390/antibiotics11101389	4.8	4.8	4.8	4.8	4.3	4.3	4.3	4.3
13	Birsă, M.L.; Sarbu, L.G. An Improved Synthetic Method for Sensitive Iodine Containing Tricyclic Flavonoids. Molecules 2022, 27, 8430. https://doi.org/10.3390/molecules27238430	4.6	4.6	4.6	4.6	4.2	4.2	4.2	4.2
14	Bahrin, L.G.; Hopf, H.; Jones, P.G.; Birsă, M.L.; Sarbu, L.G. An Approach to Paracyclophane-Based Tetrathiafulvalenes: Synthesis and Characterization of a Pseudo-Geminal [2.2]Paracyclophane 1,3-Dithia-2-Thione. Molecules 2020, 25, 5262. https://doi.org/10.3390/molecules25225262	4.412	4.412	4.412	4.412				

- 15 Mantea, L.-E.; Moldovan, C.-V.; Savu, M.; Sarbu, L.G.; Stefan, M.; Birsa, M.L. An Eco-Friendly Method to Synthesize Potent Antimicrobial Tricyclic Flavonoids. *Antibiotics* 2024, 13, 798. <https://doi.org/10.3390/antibiotics13090798>
- 16 Moldovan, C.-V.; Mantea, L.-E.; Savu, M.; Jones, P.G.; Sarbu, L.G.; Stefan, M.; Birsa, M.L. Novel Tricyclic Flavonoids as Promising Anti-MRSA Agents. *Pharmaceuticals* 2024, 17, 1276. <https://doi.org/10.3390/ph17101276>
- 17 Sarbu, L.G.; Shova, S.; Peptanariu, D.; Sandu, I.A.; Birsa, L.M.; Bahrin, L.G. The Cytotoxic Properties of Some Tricyclic 1,3-Dithiolium Flavonoids. *Molecules* 2019, 24, 2459. <https://doi.org/10.3390/molecules24132459>
- 18 Birsa, M.L.; Hopf, H.; Jones, P.G.; Sarbu, L.G.; Bahrin, L.G. [2.2]Paracyclophane Derivatives as Building Blocks for Coordination Polymers. *Materials* 2023, 16, 4051. <https://doi.org/10.3390/ma16114051>
- 19 Sarbu, L.G.; Bahrin, L.G.; Babii, C.; Stefan, M.; Birsa, M.L. Synthetic flavonoids with antimicrobial activity: a review. *J. App. Microbiol.* 2019, 127 (5), 1282-1290. <https://doi.org/10.1111/jam.14271>
- 20 Bahrin, L.G.; Sarbu, L.G.; Hopf, H.; Jones, P.G.; Babii, C.; Stefan, M.; Birsa, M.L. The influence of halogen substituents on the biological properties of sulfur-containing flavonoids. *Bioorg. Med. Chem.* 2016, 24 (14), 3166-3173. <http://dx.doi.org/10.1016/j.bmc.2016.05.044>
- 21 Babii, C.; Mihalache, G.; Bahrin, L.G.; Neagu, A.N.; Gostin, I.; Mihai, C. T.; Sarbu, L.G.; Birsa, L.M.; Stefan, M. A novel synthetic flavonoid with potent antibacterial properties: In vitro activity and proposed mode of action. *PLoS One*, 2018, 13 (4), 1-15. <https://doi.org/10.1371/journal.pone.0194898>
- 22 Sarbu, L.G.; Bahrin, L.G.; Jones, P.G.; Birsa, L.M.; Hopf, H. [2.2]Paracyclophane derivatives containing tetrathiafulvalene moieties. *Beilstein J. Org. Chem.* 2015, 11, 1917–1921. <https://doi.org/10.3762/bjoc.11.207>
- 23 Bahrin, L.G.; Hopf, H.; Jones, P.G.; Sarbu, L.G.; Babii, C.; Mihai, A.C.; Stefan, M.; Birsa, L.M. Antibacterial structure–activity relationship studies of several tricyclic sulfur-containing flavonoids. *Beilstein J. Org. Chem.* 2016, 12, 1065–1071. <https://doi.org/10.3762/bjoc.12.100>
- 24 Sarbu, L.G.; Hopf, H.; Grunenberg, J.; Birsa, M.L. Reduction of Pseudo-geminal Bis(ethynyl)-Substituted [2.2]Paracyclophanes. *Synlett*, 2015, 26, 87-90. DOI: 10.1055/s-0034-1378935. <http://www.thieme-connect.de/products/ejournals/abstract/10.1055/s-0034-1378935>
- 25 Chirita, P.; Duinea, M.I.; Sarbu, L.G.; Birsa, M.L.; Baibarac, M.; Sava, F.; Matei, E. Oxidation of chalcopryrite in air-equilibrated acidic solution: inhibition with phenacyl derivatives. *Trans. Nonferrous Met. Soc. China* 2020, 30, 1928-1942. [https://doi.org/10.1016/S1003-6326\(20\)65351-1](https://doi.org/10.1016/S1003-6326(20)65351-1)
- 26 Meziere, C.; Allain, M.; Oliveras-Gonzalez, C.; Cauchy, T.; Vanthuyne, N.; Sarbu, L.G.; Birsa, L.M.; Pop, F.; Avarvari, N. Tetrathiafulvalene-[2.2]paracyclophanes: Synthesis, crystal structures, and chiroptical properties. *Chirality* 2018, 30 (5), 568-575. <https://doi.org/10.1002/chir.22831>
- 27 Sarbu, L.G.; Bicu, E.; Hopf, H.; Birsa, M.L. [2.2]Paracyclophane Substituted Indolizines. *Rev. Chim. (Bucharest)* 2014, 65 (4), 398-400.

4.3	4.3		
4.3	4.3		
3.267	3.267	3.267	
3.1	3.1	3.1	3.1
3.066	3.066	3.066	
2.93	2.93		
2.776	2.776		
2.697	2.697	2.697	
2.337	2.337		
2.323	2.323	2.323	
2.197	2.197		
1.927	1.927		
1.755	1.755	1.755	

4.3	4.3		
4.3	4.3		
3.1	3.1	3.1	3.1

28	Sarbu, L.G.; Lungu, N.C.; Sandu, I. 2-Alkylimino-4-(2-Hydroxyaryl)-1,3-Dithiols Derivatives. Rev. Chim. (Bucharest) 2019, 70 (3), 745-748.	1.755	1.755	1.755	1.755				
29	Sarbu, L.G.; Lungu, N.C.; Sandu, I.; Chirita, P.; Bahrin, L.G. Synthesis of 2-Pyrrolydiny-1,3-Dithiolium Derivatives from Propiophenones. Rev. Chim. (Bucharest) 2019, 70 (4), 1311-1314.	1.755	1.755	1.755	1.755				
30	Lungu, C.N.; Sandu, I.; Sarbu, L.G.* 5-Methyl-4-(5-Bromo-2-hydroxyphenyl)-1,3-Dithiolium Derivatives. Rev. Chim. (Bucharest) 2018, 69 (12), 3549-3552.	1.605	1.605	1.605	1.605				
31	Matei, M.; Sandu, I.; Birsă, M.L.; Sarbu, L.G.; Simion, L. New 4-(4-Hydroxyaryl)-5-Methyl-1,3-Dithiol-2-ylidene Derivatives. Rev. Chim. (Bucharest) 2017, 68 (1), 81-84.	1.412	1.412	1.412	1.412				
32	Gorodea, I.A.; Sandu, I.; Sarbu, L.G. Novel 4-(3-Bromo-2-hydroxy-5-methylphenyl)-1,3-Dithiol-2-ylidene Derivatives. Rev. Chim. (Bucharest) 2017 68 (9), 1988-1991.	1.412	1.412	1.412	1.412				
33	Pavel, S.; Hopf, H.; Jones, P.G.; Asaftei, I.V.; Sarbu, L.G.; Birsă, L.M. Click reactions with pseudo-geminal bis(azido-methylene)[2.2]paracyclophane Monatsh. Chem. 2016, 147 (12), 2179-2183. http://dx.doi.org/10.1007/s00706-016-1842-3	1.282	1.282						
34	Dirtu, D.; Lungu, N.C.; Chirita, P.; Sandu, I.G.; Birsă, M.L.; Earar, K.; Sarbu, L.G.* Synthesis of Novel 4-(3,5-Dibromo-2-hydroxyphenyl)-5-Methyl-1,3-Dithiol-2-ylidene Derivatives. Rev. Chim. (Bucharest) 2016, 67 (3), 534-537.	1.232	1.232	1.232	1.232				
35	Toader, E.; Bahrin, L.G.; Jones, P.G.; Hopf, H.; Sarbu, L.G.; Stoleriu, G. Synthesis of New Morpholine Containing Flavonoids with Potential Biological Applications. Rev. Chim. (Bucharest) 2016, 67 (8), 1520-1522.	1.232	1.232	1.232	1.232				
36	Sarbu, L.G.; Hopf, H.; Jones, P.G.; Bahrin, L.G.; Birsă, M.L. Methylamine-induced ring opening of 1,3-dithiolium cations. Arkivoc 2019, 174-179. https://doi.org/10.24820/ark.5550190.p011.064	1.003	1.003	1.003					
37	Chirita, P.; Hrib, C.G.; Sandu, I.; Lungu, N.C.; Sarbu, L.G.*; Earar, K. A New Class of 4-(Hydroxyaryl)-1,3-Dithiolium Chlorides; Rev. Chim. (Bucharest) 2015, 66 (8), 1151-1154.	0.956	0.956	0.956	0.956				
38	Dirtu, D.; Asaftei, I.V.; Chirita, P.; Sandu, I.G.; Birsă, M.L.; Earar, K.; Sarbu, L.G.* Synthesis of 1,3-Dithiol-2-ylum Salts by Functionalization of Some Tolueneols. Rev. Chim. (Bucharest), 2015, 66 (12), 2028.	0.956	0.956	0.956	0.956				
39	Sarbu, L.G.; Bahrin, L.G.; Hopf, H.; Birsă, M.L. Chalchogenide Induced Intramolecular Interactions in [2.2]Paracyclophanes: A Review. Studia UBB Chemia 2019, 64, 7-16, doi:10.24193/subbchem.2019.3.01. http://www.chem.ubbcluj.ro/~studiachemia/issues/chemia2019_3/01Sarbu_et al_7_16.pdf	0.494	0.494	0.494					
40	Sarbu, L.G. Synthesis of 1,3-Dithiolium Salts Containing N-Methylpiperazine. Acta Chem. Iasi 2023, 31, 119-128. doi:10.47743/achi-2023-2-0008. https://www.chem.uaic.ro/ro/acta-chemica/aci_vol_31_2_2023.html	0.4	0.4	0.4	0.4				
Total		122.538	122.538	88.974	69.569				
						0.4	0.4	0.4	0.4
		60.542	60.542	51.942	51.942				

Cerința h-index	Realizat
13	18 (WoS)

Criterii Profesor	N _{max} ^(*)	FIC	FIC _D	FIC _{AP}	FIC _{AC}	h-index	FIC	FIC _D	FIC _{AP}	FIC _{AC}
Cerințe	50	100	70	50	25	13	25	17.5	12.5	6.25
Raportate din total realizat	40	122.538	122.538	88.974	69.569	WOS-18	60.542	60.542	51.942	51.942

Procent realizat din punctajul minimal

49.4 49.4 58.37 74.66

Cărți

- 1 Sarbu, L.G., Birsă, M.L., Introducere în chimia organică, Ed. Stef, Iași, 2016, 263 pag. ISBN 978-606-575-647-2
- 2 Sarbu, L.G., Birsă, M.L., Metode de investigare a mecanismelor de reacție, Ed. Stef, Iași, 2021, 324 pag. ISBN 978-606-028-707-0
- 3 Sarbu, L.G., Birsă, M.L., Medicamente de sinteză, Ed. Stef, Iași, 2021, 245 pag. ISBN 978-606-028-708-7
- 4 Sarbu, L.G., Producși Organici Bioactivi, Ed. Stef, Iași, 2021, 177 pag. ISBN:978-606-028-709-4

Data:

03.06.2026

Semnătura

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