

LISTA
completă a lucrărilor științifice
Candidat
Conf. dr. Laura Gabriela SÂRBU

a) Listă lucrări științifice relevante

1. Birsa, 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>
2. Birsa, 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>
3. Moldovan, C.-V.; Savu, M.; Dussert, E.; Aboubacar, H.; Sarbu, L.G.; Matiut, S.; Cudennec, B.; Krier, F.; Ravallec, R.; Birsa, 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. 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*, 1282-1290. <https://doi.org/10.1111/jam.14271>
5. 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>
6. Bahrin, L.G., Sarbu, L.G., Jones, P.G., Birsa, 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>
7. 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>
8. Sarbu, L.G.; Bahrin, L.G.; Jones, P.G.; Birsa, M.L.; 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>

9. 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>
10. Sarbu, L.G.; Hopf, H.; Jones, P.G.; Birsa, M.L. Selenium halide-induced bridge formation in [2.2]paracyclophanes. *Beilstein J. Org. Chem.* **2014**, 10, 2550-2555. <http://dx.doi.org/10.3762%2Fbjoc.10.266>

b) Teza de doctorat

Teza de doctorat, cu titlul „*Noi derivați de [2.2]paraciclofani*”, Universitatea Alexandru Ioan Cuza din Iași, conducător științific Prof. dr. univ. Elena Bîcu, susținută în Septembrie 2014 cu obținerea titlului științific de doctor în domeniul Chimie (OMEN nr. 3181/06.02.2015).

c) Cărți și capitole în cărți

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

d) Articole publicate *in extenso*, în reviste din fluxul științific internațional

1. Birsa, 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>
2. 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>
3. Birsa, 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>

4. Mantea, L.-E.; Moldovan, C.-V.; Savu, M.; **Sarbu, L.G.**; Stefan, M.; Birsă, M.L. An Eco-Friendly Method to Synthesize Potent Antimicrobial Tricyclic Flavonoids. *Antibiotics* **2024**, *13*, 798. <https://doi.org/10.3390/antibiotics13090798>
5. **Sarbu, L.G.**, Synthesis of 1,3-Dithiolium Salts Containing *N*-Methylpiperazine, *Acta Chem. Iasi*, **2023**, *31* (2), 119-128. DOI: 10.47743/achi-2023-2-0008. https://www.chem.uaic.ro/ro/acta-chemica/aci_vol_31_2_2023.html
6. 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>
7. Birsă, 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>
8. 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>
9. 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>
10. Moldovan, C.-V.; Savu, M.; Dussert, E.; Aboubacar, H.; **Sarbu, L.G.**; Matiut, 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>
11. 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>
12. 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>
13. 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>
14. Chiriță, P.; Duinea, M.I.; **Sarbu, L.G.**; Birsă, L.M.; Baibarac, M.; Sava, F.; Matei, E. Oxidation of chalcopirite 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)
15. **Sarbu, L.G.**, Hopf, H., Jones, P.G., Bahrin, L.G., Birsă, L.M., Methylamine-induced ring opening of 1,3-dithiolium cations. *Arkivoc* **2019**, 174-179. <https://doi.org/10.24820/ark.5550190.p011.064>
16. **Sarbu, L.G.**, Bahrin, L.G., Hopf, H., Birsă, L.M., *Studia Chem.* **2019**, *64* (3), 7-16. doi: 10.24193/subbchem.2019.3.01. http://www.chem.ubbcluj.ro/~studiachemia/issues/chemia2019_3/01Sarbu_etal_7_16.pdf
17. Duinea, M.I., Carac, G., Dabuleanu, I.D., Petcu, M.A., **Sarbu, L.G.**, Birsă, M.L., Reiss, A., Chirita, P., Troilite (FeS) Oxidation in the Presence of a Newly Synthesized TRIS-based Base. *Rev. Chim. (Bucharest)* **2019**, *70* (7), 2639-2642.

18. 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>
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*, 1282-1290. <https://doi.org/10.1111/jam.14271>
20. 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.
21. 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.
22. 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.
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32. Pavel, S., Hopf, H., Jones, P.G., Asaftei, I.V., Sarbu, L.G., Birsa, 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>

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35. Bahrin, L.G., Hopf, H., Jones, P.G., **Sarbu, L.G.**, Babii, C., Mihai, A.C., Stefan, M., Birsa, M.L. 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>
36. Asaftei, I.V., Sandu, I.G., Lungu, N.C., Birsa, M.L., **Sarbu, L.G.**, Ignat, M. Conversion of Butane-Butylene Mixtures over B(Al)-HZSM-5 Catalyst Prepared by Impregnation and over ZnO/HZSM-5 co-Catalyst Prepared by Mechanical Mixing. *Rev. Chim. (Bucharest)* **2016**, 67 (5), 847-853.
37. Dirtu, D.; Lungu, N.C.; Chirita, P.; Sandu, I.G.; Birsa, 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.
38. **Sarbu, L.G.**; Bahrin, L.G.; Jones, P.G.; Birsa, M.L.; 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>
39. **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>
40. Dirtu, D.; Asaftei, I.V.; Chirita, P.; Sandu, I.G.; Birsa, M.L.; Earar, K.; **Sarbu, L.G.*** Synthesis of 1,3-Dithiol-2-ylum Salts by Functionalization of Some Toluene Derivatives. *Rev. Chim. (Bucharest)* **2015**, 66 (12), 2028-2030.
41. 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.
42. Hrib, C.G.; Chirita, P.; Sandu, I.G.; Asaftei, I.V.; **Sarbu, L.G.***; Earar, K. The Synthesis and X-Ray Structural Characterization of New 4-(5-Bromo-2-hydroxyphenyl)-1,3-Dithiol-2-ylum Perchlorates. *Rev. Chim. (Bucharest)* **2015**, 66 (7), 983-986.
43. **Sarbu, L.G.**; Sandu, I.; Bahrin, L.G.; Balan, A.; Apostu, M.O. New Bromo Substituted 1,3-Dithiol-2-ylum Salts. *Rev. Chim. (Bucharest)* **2015**, 66 (1), 55-59.
44. **Sarbu, L.G.**; Hopf, H.; Jones, P.G.; Birsa, M.L. Selenium halide-induced bridge formation in [2.2]paracyclophanes. *Beilstein J. Org. Chem.* **2014**, 10, 2550-2555. <http://dx.doi.org/10.3762/bjoc.10.266>
45. **Sarbu, L.G.**; Apostu, M.O.; Sandu, I.; Bahrin, L.G.; Manea, L.R. 1,3-Dithiol-2-ylum Compounds Derived from Substituted Butyrophenone. *Rev. Chim. (Bucharest)* **2014**, 65 (11), 1327-1331.
46. **Sarbu, L.G.**; Lungu, C.N.; Balan, A.; Bahrin, L.G. Synthesis of Sulfur Containing Piperazine Derivatives with Potential Biological Activities. *Rev. Chim. (Bucharest)* **2014**, 65 (10), 1135-1137.

47. Bahrin, L.G.; Asaftei, I.V.; Sandu, I.; **Sarbu, L.G.** Synthesis of (4-Methylpiperazin-1-yl)carbodithioates and of their 1,3-Dithiolium Derivatives. *Rev. Chim. (Bucharest)* **2014**, 65 (9), 1046-1048.
48. **Sarbu, L.G.**; Bicu, E.; Hopf, H.; Birsa, M.L. [2.2]Paracyclophane Substituted Indolizines. *Rev. Chim. (Bucharest)* **2014**, 65 (4), 398-400.
49. **Sarbu, L.G.**; Lungu, C.N.; Asaftei, I.V.; Sandu, I.; Birsa, L.M. New Evidence for the Mesoionic Character of 2-(1,3-dithiol-2-ylum)phenolates. *Rev. Chim. (Bucharest)* **2014**, 65 (3), 325-327.
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51. **Sarbu, L.G.**; Lungu, N.C.; Forna, N.C.; Birsa, M.L. Synthesis of 4-(2-hydroxyphenyl)-2-dialkylamino-1,3-dithiolium Salts and Corresponding Mesoionic Derivatives. *Rev. Chim. (Bucharest)* **2013**, 64 (12), 1404-1407.
52. **Sarbu, L.G.**; Bahrin, L.G. 3-Methylpiperidinyl Carbodithioates as Building Blocks for 1,3-Dithiolium Derivatives. *Acta Chem. Iasi* **2013**, 21, 47-56. doi:10.2478/achi-2013-0005. https://www.chem.uaic.ro/ro/acta-chemica/ac_vol_21_noi_2013.html
53. **Sarbu, L.G.**; Hrib, C.G.; Birsa, M.L. rac-1-(5-Bromo-2-hydroxyphenyl)-1-oxopropan-2-yl morpholine-4-carbodithioate. *Acta Cryst.*, **2013**, E69, o1169. doi:10.1107/s1600536813017509.
54. **Sarbu, L.G.**; Birsa, A.; Hopf, H.; Birsa, M.L. New Bridges In [2.2]Paracyclophanes: The Interaction Of Chalcogenide Halides With *Pseudo-Geminal* Triple Bonds. *Phosphorus, Sulfur, and Silicon, and the Related Elements* **2011**, 186 (5), 1246-1250. <http://dx.doi.org/10.1080/10426507.2010.524177>
55. **Sarbu, L.G.**; Birsa, M.L. Synthesis of Iodine Containing Mesoionic 2-(1,3-Dithiolium)phenolates. *Acta Chem. Iasi* **2011**, 19 (2), 125-135.
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57. **Sarbu, L.G.**; Birsa, A.; Ignat, L.; Hopf, H.; Birsa, M.L. [2.2]Paracyclophanes: The Interaction of *Pseudo-Geminal* Bisacetylene with Water and Electrophiles. *Acta Chem. Iasi* **2010**, 18, 71-78.

e) Articole publicate *in extenso*, în volumele conferințelor internaționale de specialitate

1. **Sarbu, L.G.**, Birsa, M.L., "Tricyclic flavonoids with 1,3-dithiolium substructure" *J. Org. Inorg. Chem*, **2020**, 6 (3), 07. <https://organic-inorganic.imedpub.com/articles/tricyclic-flavonoids-with-13dithiolium-substructure.pdf> DOI: 10.36648/2472-1123.6.3.8
2. Birsa, M.L., **Sarbu, L.G.**, "Intramolecular interactions in [2.2]paracyclophanes" *J. Org. Inorg. Chem*, **2020**, 6 (3), 02. <https://organic-inorganic.imedpub.com/articles/intramolecular-interactions-in-22paracyclophanes.pdf> DOI: 10.36648/2472-1123.6.3.3
3. **Sarbu, L.G.**, Birsa, M.L., "Hybrid Systems Tetrathiafulvalenes - [2.2]Paracyclophanes", *Organic Chem. Curr. Res.* **2018**, 7. <https://www.longdom.org/conference-abstracts-files/2161-0401-C1-023-024.pdf>

f) Participări conferințe naționale și internaționale

1. Sarbu, L.G., "Synthetic Flavonoid - An Alternative Solution to Combat ESKAPE Pathogens", *57th International Conference on Medicinal Chemistry, Drug Discovery and Selection, Lille, France, 5-7 Iulie 2023* (Poster presentation P028).
2. Sarbu, L.G., "Intramolecular interactions in [2.2]paracyclophanes", *Simpozionul Național De Chimie Ediția a XIII-a, 27 noiembrie 2021, Craiova*. <https://chimie.ucv.ro/snchcv2021/>
3. Sarbu, L.G., "Tetrathiafulvalenes-[2.2]Paracyclophanes", *10th European Organic Chemistry Congress, March 21 - 22, 2019 Rome* (Poster presentation EOC-06).
4. Sarbu, L.G., "Tricyclic Flavonoids with 1,3-dithiolium substructure: synthesis and antibacterial activity", *21st European Symposium on Organic Chemistry, July 14 - 18, 2019 Vienna* (Poster presentation PO-239).
5. Bahrin, L., G., Peptanariu, D., Shova, S., Sarbu, L. G., Birsa, M. L., "The cytotoxic properties of a halogenated 1,3-dithiolium flavonoid", *Conferinta Facultatii de Chimie IasiCHEM 2019, Ed. a III-a* (Poster presentation PI-19). <https://www.chem.uaic.ro/files/File/2019-2020/zu-2019/iasichem-2019-program.pdf>
6. Sarbu, L.G., "Hybrid Systems Tetrathiafulvalenes - [2.2]Paracyclophanes", *4th European Organic Chemistry Congress March 01 - 03, 2018 London* (Poster presentation). <https://www.longdom.org/conference-abstracts-files/2161-0401-C1-023-024.pdf>
7. Sarbu, L.G., "New Tetrathiafulvalene Derivatives Substituted with [2.2]Paracyclophanes", *Conferinta Facultatii de Chimie 2014* (Poster presentation P39). [https://www.chem.uaic.ro/files/File/2014-2015/zu-2014/program-31x2014\(1\).pdf](https://www.chem.uaic.ro/files/File/2014-2015/zu-2014/program-31x2014(1).pdf)

Data

29.01.2025

Semnătura



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