

Lista publicațiilor

A. Lista lucrări relevante

1. Braverman, S., Cherkinsky, M., **Birsa, M. L.**, Zafrani, Y., "Base catalyzed reactivity of sulfur and selenium bridged cyclic alkynes", *Eur. J. Org. Chem.*, **2002**, 3198-3207.
2. **Birsa, M. L.**, Ganju, D., "Synthesis and UV/Vis spectroscopic properties of new [2-(*N,N*-dialkylamino)-1,3-dithiolium-4-yl]phenolates", *J. Phys. Org. Chem.*, **16**, 207-212 (2003).
3. **Birsa, M. L.**, Jones, P. G., Hopf, H., "Transannular Hydride Migration in *Pseudo-Geminally* Substituted[2.2]Paracyclophanes: A Vinylogous Pinacol Rearrangement", *Eur. J. Org. Chem.*, **2005**, 3263-3270.
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5. **Birsa, M. L.**, Hopf, H., "Synthesis of α,β -Unsaturated Pseudogeminal [2.2]Paracyclophane Bisketones", *Synlett*, **2007**, 2753-2756.
6. **Birsa, M. L.**, Hopf, H., "A New Way to Generate Functionalized Bridges in [2.2]Cyclophanes", *Synlett*, **2009**, 3000-3002.
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8. Bahrin, L. G., Apostu, M. O., **Birsa, M. L.**, Stefan, M., "The antibacterial properties of sulfur containing flavonoids", *Bioorg. Med. Chem. Lett.*, **24**, 2315-2318 (2014).
9. Hopf, H., Jones, P. G., Nicolescu, A., Bicu, E., **Birsa, M. L.**,* Belei, D., "A Facile Synthesis of Pechmann Dyes", *Chem. Eur. J.*, **20**, 5565-5568 (2014).
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.*, **10**, 2550-2555 (2014).

B. Teza de doctorat

Cercetări asupra sintezei și reactivității unor săruri de 1,3-ditioliu, Universitatea “Al.I. Cuza” Iași, 26 Mai 2000; Conducător științific: Prof. dr. Candiano Leonte

C. Brevete de invenție

1. Gulea A., Țapcov V., **Birsa, M. L.**, Gînju D., Jalbă A., Graur V., Julea F., "Inhibitor al leucemiei mieloide umane în bază de {bis[2-(3,5-dibromo-2-hidroxifenil)-2-oxoetil-piperidin-1-carboditioato(1-)-O,O']cupru}", Brevet de invenție MD Nr 4190. 2012. Publ BOPI 12/2012. P. 21-22.

D. Cărți / contribuții la cărți

1. **Birsa, M. L.**, *Introducere în Chimia Organică*, Centrul IDD Universitatea “Al.I. Cuza” din Iași – IAȘI, 2000, 124 pp.
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E. *Articole în reviste de specialitate*

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2. Seliger, H., Happ, E., Cascaval, A., **Birsa, M. L.**, Novitschi, G., "Synthesis of some aminated thiazoles", *An. St. Univ. "Al.I. Cuza" Iasi*, **V**, 123-128 (1997).
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7. Seliger, H., Happ, E., Cascaval, A., **Birsa, M. L.**, Nicolaescu, T., Poinescu, I., Cojocariu, C., "Synthesis and characterization of new photostabilizers from 2,4-dihydroxybenzophenone", *Eur. Polym. J.*, **35**, 827- 833 (1999).

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76. Apostu, M. O., Sandu, I., **Birsa, M. L.**, Earar, K., "Synthesis of Novel 4-Aryl-5-Methyl-1,3-Dithiolium Derivatives", *Rev. Chim. (Bucharest)*, **66**, 39-42 (2015).
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F. *Contribuții publicate la conferințe academice*

1. Braverman, S.; Cherkinsky, M.; **Birsa, M. L.**, “*Tandem Isomerization and Cycloaromatization of Macrocyclic Sulfur and Selenium Bridged Di- and Tetraalkynes*”, The 67th Annual Meeting of the Israel Chemical Society, Jerusalem, January 29-30, 2002, Abstracts p 228.
2. **Birsa, M. L.**, Hopf, H., “*Pseudo-Geminal [2.2]-Paracyclophane As Spacer For Bisallenyl Sulfoxides And Sulfones*”, The 21st International Symposium on Organic Chemistry of Sulfur, Madrid, July 4-9, 2004, Abstract p 144.
3. S. Braverman, M. Cherkinsky, H. E. Gottlieb, **M. L. Birsa**, H. Hopf, “*Synthesis and Cycloaromatization of Sulfur Bridged pseudo-gem-Bis-ethynyl[2.2]paracyclophane*”, The 70th Annual Meeting of the Israel Chemical Society, Bar-Ilan, February 14-16, 2005, Abstracts p 153.
4. **Birsa, M. L.**, Keynote lecture on “*Synthesis and Reactivity of Sulfur and Selenium Bridged Di- and Tetraalkynes*”, International Symposium on Organic Chemistry, Sofia, December 9-12, 2006, Abstracts p 18.
5. **Birsa, M. L.**, Ciobanu, A. S., Vornicu, N., Bicu E., “*New mesoionic phenothiazinyl derivatives*”, The 41st IUPAC Congress, Torino, August 4-11, 2007, Abstract p 56.
6. **Steluta Gosav**, Mihail Lucian Bîrsă, Exploratory analysis on some flavonoids with anti-invasive activity using molecular descriptors and principal component analysis, 1^{ER} Colloque Franco-Roumain de Chimie Medicinale, 7-8 oct 2010, Iasi, Romania.
7. **Steluța Gosav**, Mihail Lucian Bîrsă, QSAR modeling of anti-invasive activity of flavonoid compounds using chemometric methods, XIth International Conference on Molecular, September 17-21, 2011, Wroclaw-Kudova Zdroj, Polonia.
8. **Steluța Gosav**, Mirela Praisler, Mihail Lucian Bîrsă, Principal component analysis coupled with artificial neural networks – a combined technique identifying small molecular structures using a concatenated spectral database, XIth International Conference on Molecular, September 17-21, 2011, Wroclaw-Kudova Zdroj, Polonia.
9. **Steluța Gosav**, Mirela Praisler, Mihail Lucian Bîrsă, Importance and Sensitivity of GC-FTIR Spectra – Optimisation of ANN System Identifying Bioactive Compounds, 10th

International Conference on Global Research and Education, 26-28 sept 2011, Sucevita, Romania.

10. **Steluța Gosav**, Mihail Lucian Bîrsă, SDA method applied on some flavonoid compounds with anti-invasive activity, International Conference on Global Research and Education, 26-28 sept 2011, Sucevita, Romania.
11. **Steluta Gosav**, Mihail Lucian Birsă, Lucian Gabriel Bahrin, Georgiana Parfene, Rodica Dinica, Spectroscopic characterization, antimicrobial activity and DFT calculations of novel flavanones, Second International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences (IC-ANMBES), May 24-27, 2012, Brasov, Romania.
12. **Steluta Gosav**, Mihail Lucian Birsă, Multivariate study of flavonoids active against HT-29 colon carcinoma, Second International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences IC-ANMBES, May 24-27, 2012, Brasov, Romania.
13. **S. Gosav**, D. Maftai and M.L. Birsă, Experimental (FTIR and NMR spectra) and theoretical (DFT) study of novel flavanones, 31st European Congress on Molecular Spectroscopy, 26-31 August 2012, Cluj-Napoca, Romania.

G. Granturi si Contracte de cercetare

Grant postdoctoral al Fundatiei Alexander von Humboldt, RUM-1113505

Director contract de cercetare: 3

1. Contract CEEEX modul II, ET 5902 / 18.09.2006
2. Contract PN II – IDEI cod 2095 / 2008
3. Contract PN II – PARTENERIATE nr 51/2011

Participant la contracte de cercetare: 9, din care

7 contracte Tip A cu Ministerul Educației Naționale:

1. 1998 - CNSU 33/91
2. 1999 - CNCSIS 32/184
3. 2001 – CNCSIS 11/948;

4. 2002 - CNCSIS 55/304;
5. 2003 - CNCSIS 122/304;
6. 2005 - CNCSIS 5/1483;
7. 2006 - CNCSIS 7/1483.

1 contract CEEX, Modul I CERES 2CEX06-11-105 / 25.10.2006

1 contract international tip BILATERAL RO-FR