

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.
4. **Birsa, M. L.**, Jones, P. G., Braverman, S. and Hopf, H., "*Pseudo-Geminally* Substituted [2.2]Paracyclophanes as Spacer for Bisallenyl Sulfoxides and Sulfones", *Synlett*, **2005**, 640-642.
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.
7. **Birsa, M. L.**, Jones, P. G., Hopf, H., "Orthogonal π -Bridges in [2.2]Paracyclophanes", *Synlett*, **2011**, 259-261.
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.
2. Bîcu, E.; **Birsa, M. L.**; Belei, D.; Sarbu, D., *Chimie Organică – Exerciții și Probleme*, Pim, Iași, 2003, 246 pp.
3. Braverman, S.; Cherkinsky, M.; **Birsa, M. L.**, *X=C=X, X=O, S, Se, Te, N, P. CO₂, COS, CS₂, Isocyanates, Isothiocyanates, Carbodiimides, Se, Te, P Analogs in Science of Synthesis, Houben-Weyl Methods of Molecular Transformations*, Georg Thieme Verlag, Stuttgart, Vol. 18.2; 2005, pp 55-310.
4. **Birsa, M. L.**, *Carbanions and Electrophilic Aliphatic Substitution in Organic Reaction Mechanisms 2003*, Knipe, A. C., Ed., John Wiley & Sons, Chichester, 2007, pp 293-331.
5. **Birsa, M. L.**, *Elimination Reactions in Organic Reaction Mechanisms 2004*, Knipe, A. C., Ed., John Wiley & Sons, Chichester, 2008, pp. 331-342.
6. **Birsa, M. L.**, *Carbanions and Electrophilic Aliphatic Substitution in Organic Reaction Mechanisms 2005*, Knipe, A. C. Ed., John Wiley & Sons, Chichester, 2008, pp. 249-276.
7. **Birsa, M. L.**, *Elimination Reactions in Organic Reaction Mechanisms 2005*, Knipe, A. C. Ed., John Wiley & Sons, Chichester, 2008, pp. 277-285.

8. **Birsa, M. L.**, *Carbanions and Electrophilic Aliphatic Substitution in Organic Reaction Mechanisms 2006*, Knipe, A. C. Ed., John Wiley & Sons, Chichester, 2010, 277-306.
9. **Birsa, M. L.**, *Elimination Reactions in Organic Reaction Mechanisms 2006*, Knipe, A. C. Ed., John Wiley & Sons, Chichester, 2010, 307-316.
10. **Birsa, M. L.**, *Carbanions and Electrophilic Aliphatic Substitution in Organic Reaction Mechanisms 2007*, Knipe, A. C. Ed., John Wiley and Sons, Chichester, 2011, 239-264.
11. **Birsa, M. L.**, *Elimination Reactions in Organic Reaction Mechanisms 2007*, Knipe, A. C. Ed., John Wiley & Sons, Chichester, 2011, 265-274.
12. **Birsa, M. L.**, *Elimination Reactions in Organic Reaction Mechanisms 2008*, Knipe, A. C. Ed., John Wiley & Sons, Chichester, 2011, 253-266.
13. **Birsa, M. L.**, *Carbanions and Electrophilic Aliphatic Substitution in Organic Reaction Mechanisms 2008*, Knipe, A. C. Ed., John Wiley and Sons, Chichester, 2011, 225-252.
14. **Birsa, M. L.**, *Carbanions and Electrophilic Aliphatic Substitution in Organic Reaction Mechanisms 2009*, Knipe, A. C. Ed., John Wiley and Sons, Chichester, 2011, 309-332.
15. **Birsa, M. L.**, *Elimination Reactions in Organic Reaction Mechanisms 2009*, Knipe, A. C. Ed., John Wiley & Sons, Chichester, 2011, 333-344.
16. **Birsa, M. L.**, *Carbanions and Electrophilic Aliphatic Substitution in Organic Reaction Mechanisms 2010*, Knipe, A. C. Ed., John Wiley and Sons, Chichester, 2012, 265-284.
17. **Birsa, M. L.**, *Elimination Reactions in Organic Reaction Mechanisms 2010*, Knipe, A. C. Ed., John Wiley & Sons, Chichester, 2012, 285-297.
18. **Birsa, M. L.**, *Carbanions and Electrophilic Aliphatic Substitution in Organic Reaction Mechanisms 2011*, Knipe, A. C. Ed., John Wiley and Sons, Chichester, 2014, 339-360.
19. **Birsa, M. L.**, *Elimination Reactions in Organic Reaction Mechanisms 2011*, Knipe, A. C. Ed., John Wiley & Sons, Chichester, 2014, 361-370.

20. **Birsa, M. L.**, *Carbanions and Electrophilic Aliphatic Substitution in Organic Reaction Mechanisms 2012*, Knipe, A. C. Ed., John Wiley and Sons, Chichester, 2015, in press.
21. **Birsa, M. L.**, *Elimination Reactions in Organic Reaction Mechanisms 2012*, Knipe, A. C. Ed., John Wiley & Sons, Chichester, 2015, in press.
22. **Birsa, M. L.**, *Carbanions and Electrophilic Aliphatic Substitution in Organic Reaction Mechanisms 2013*, Knipe, A. C. Ed., John Wiley and Sons, Chichester, 2015, in press.
23. **Birsa, M. L.**, *Elimination Reactions in Organic Reaction Mechanisms 2013*, Knipe, A. C. Ed., John Wiley & Sons, Chichester, 2015, in press.

E. *Articole în reviste de specialitate*

1. Seliger, H., Happ, E., Cascaval, A., **Birsa, M. L.**, "Alkyl-2-hydroxyaryl ketones. XXX. ", *An. St. Univ. "Al.I. Cuza" Iasi*, **V**, 111-122 (1997).
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).
3. Seliger, H., Cascaval, A., **Birsa, M. L.**, "A facile one-step synthesis of some new bis-Mannich-Werner bases of polysubstituted chroman-4-ones", *An. St. Univ. "Al.I. Cuza" Iasi*, **V**, 129-134 (1997).
4. **Birsa, M. L.**, "Dithiolium derivatives. I.", *An. St. Univ. "Al.I. Cuza" Iasi*, **VI**, 57-64 (1998).
5. **Birsa, M. L.**, "Dithiolium derivatives. II.", *An. Stiint. Univ. "Al.I. Cuza" Iasi*, **VII**, 341-347 (1999).
6. **Birsa, M. L.**, "Dithiolium derivatives. III.", *An. Stiint. Univ. "Al.I. Cuza" Iasi*, **VII**, 349-354 (1999).
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).

8. **Birsa, M. L.**, "Dithiolium derivatives. IV.", *An. Stiint. Univ. "Al.I. Cuza" Iasi*, **VIII**, 71-74 (2000).
9. **Birsa, M. L.**, "Synthesis of some new 4-(2'-hydroxyaryl)-5-methyl-2- (N,N-dialkylamino)-thiazoles", *An. Stiint. Univ. "Al.I. Cuza" Iasi*, **VIII**, 325-328 (2000).
10. **Birsa, M. L.**, "Dithiolium derivatives. V.", *An. Stiint. Univ. "Al.I. Cuza" Iasi*, **VIII**, 329-334 (2000).
11. **Birsa, M. L.**, Tiron, R., Ignat, L., "Dithiolium derivatives. VI.", *An. Stiint. Univ. "Al.I. Cuza" Iasi*, **VIII**, 335-340 (2000).
12. **Birsa, M. L.**, "A new approach to preparation of 1,3-dithiolium salts", *Synth. Commun.*, (2001) **31**, 1271-1275.
13. Braverman, S., Cherkinsky, M., **Birsa, M. L.**, Tichman, S., Goldberg, I., "Synthesis and structure of novel sulfur bridged cyclic di- and tetraalkynes", *Tetrahedron Lett.*, **42**, 7485-7488 (2001).
14. **Birsa, M. L.**, "Synthesis of some new substituted flavanones and related 4-chromanones by a novel synthetic method", *Synth. Commun.*, **32**, 115-118 (2002).
15. 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.
16. **Birsa, M. L.**, Cherkinsky, M., Braverman, S., "Thermal rearrangements of bis-allenyl thiosulfonates", *Tetrahedron Lett.*, **43**, 9615-9619 (2002).
17. **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).
18. **Birsa, M. L.**, "Reaction of 4-(2'-hydroxyaryl)-1,3-dithiolium salts with sodium sulfide. A selective synthesis of 2'-hydroxyacetophenones", *Synth. Commun.*, **33**, 3071-3076 (2003).
19. **Birsa, M. L.**, "Synthesis of some 4-(2'-hydroxyaryl)-5-ethyl-2-(N,N-dialkylamino)-1,3-dithiolium salts", *Sulfur Lett. (J. Sulfur Chem.)*, **26**, 155-162 (2003).
20. Levi, M. D., Gofer, Y., Cherkinsky, M., **Birsa, M. L.**, Aurbach, D., Berlin, A., "Electroanalytical features of non-uniformly doped conducting poly-3-(3,4,5-trifluorophenyl)thiophene films", *Phys. Chem. Chem. Phys.* **5**, 2886-2893 (2003).

21. Braverman, S., Cherkinsky, M., **Birsa, M. L.**, Gottlieb, H. E., "Facile synthesis and Diels-Alder reactions of 2,6-divinyl-1,4-dithiin", *Synthesis*, **2003**, 849-852.
22. **Birsa, M. L.**, Hopf, H., "Pseudo-Geminal [2.2]-Paracyclophane As Spacer For Bisallenyl Sulfoxides And Sulfones", *Phosphorus, Sulfur, and Silicon, and the Related Elements* **180**, 1453-1454 (2005).
23. **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.
24. **Birsa, M. L.**, Jones, P. G., Braverman, S. and Hopf, H., "*Pseudo-Geminally* Substituted [2.2]Paracyclophanes as Spacer for Bisallenyl Sulfoxides and Sulfones", *Synlett* **2005**, 640-642.
25. Tietze, L. F., **Birsa, M. L.**, Cascaval, A., *Anal. Stiint. Univ. Al.I. Cuza Iasi*, **13**, 91-98 (2005).
26. **Birsa, M. L.**, Hopf, H., "Synthesis of α,β -Unsaturated Pseudogeminal [2.2]Paracyclophane Bisketones", *Synlett*, **2007**, 2753-2756.
27. **Birsa, M. L.**, Asaftei, I. V., "Solvatochromism of mesoionic iodo(1,3-dithiol-2-ylum-4-yl)phenolates", *Monat. Chem.*, **139**, 1433-1438 (2008).
28. Ciobanu, A.S., Goanta, M., Birsa, A., Asaftei, I.V., **Birsa, M. L.**, "Synthesis of Mesoionic 4-Methyl-2-(1,3-dithiol-2-ylum-4-yl)phenolates", *Anal. Stiint. Univ. Al.I. Cuza Iasi*, **16**, 61-75 (2008).
29. Bacu, E., Vornicu, N., Belei, D., **Birsa, M. L.**, „Cercetari privind activitatea antifungica a unor saruri de *N*-fenacil-2-carbaldoxim-piridiniu” *Conservarea si Restaurarea Patrimoniului Cultural*, **VIII**, 6-14 (2008).
30. Bacu, E., Vornicu, N., Belei, D., **Birsa, M. L.**, „Activitatea antibacteriana a trei saruri de *N*-fenacil- $Y_{(p)}$ -2-carbaldoxim-piridiniu”, *Conservarea si Restaurarea Patrimoniului Cultural*, **VIII**, 92-99 (2008).
31. Asaftei, I. V., Bîlbă, N., **Bîrsă, M. L.**, Luchian, C., „Sorption Properties of MCM-41 Mesoporous Materials”, *Anal. Stiint. Univ. Al.I. Cuza Iasi*, **16**, 47-60 (2008).
32. Asaftei, I. V., Iofcea, Ghe., **Bîrsă, M. L.**, Bîlbă, N., „Aromatisation of the Technical C_4/C_4^- Fraction Over Zn-MFI Catalysts”, *Acta Chem. Iasi*, **17**, 5-34 (2009).

33. Goanta, M., Ciobanu, A.S., Birsa, A., Asaftei, I.V., **Birsa, M. L.**, "Synthesis of 4-(3-Bromo-2-Hydroxy-5-Methylphenyl)-2-Dialkylamino-1,3-Dithiolium Chlorides", *Acta Chem. Iasi*, **17**, 35-48 (2009).
34. **Birsa, M. L.**, Hopf, H., "A New Way to Generate Functionalized Bridges in [2.2]Cyclophanes", *Synlett*, **2009**, 3000-3002.
35. Birsa, A., Ignat, L., Hopf, H., **Birsa, M. L.**, " [2.2]Paracyclophanes: The Interaction of *Pseudo-Geminal* Bispropargylic Alcohols with Sulfur Halides", *Acta Chem. Iasi*, **17**, 187-196 (2009).
36. Belei, D., Bicu, E., **Birsa, M. L.**, " 1,3-Dipolar Cycloaddition Reactions of *N*-Acetylazido-2-chlorophenothiazine", *Acta Chem. Iasi*, **17**, 197-207 (2009).
37. Belei, D., Bicu, E., Jones, P. G., **Birsa, M. L.**, " A New Synthetic Methodology for the Pyrrolidine Ring", *Synlett*, **2010**, 931-933.
38. **Birsa, M. L.**, Hopf, H., "A New Bridge in [2.2]Cyclophanes: The Addition of Se_2Cl_2 to *Pseudo-Geminally* Substituted Bispropargylic Alcohols", *Heteroatom Chem.*, **21**, 126-130 (2010).
39. Sarbu, L. G., Birsa, A., Ignat, L., Hopf, H., **Birsa, M. L.**, " [2.2]Paracyclophanes: The Interaction of *Pseudo-Geminal* Bisacetylene with Electrophiles", *Acta Chem. Iasi*, **18**, 69-76 (2010).
40. Sarbu, L. G., Birsa, A., Hopf, H., **Birsa, M. L.**, "Heteroatom Bridged [2.2]Paracyclophanes As Eneidyne Analogs", *Acta Chem. Iasi*, **18**, 186 (2010).
41. Abuhaie, C. M., Belei, D., **Birsa, M. L.**, Bîcu, E., "Nouveaux composes de type pyridino- et indolizino-phenothiazines a potentialité pharmacologique", *Acta Chem. Iasi*, **18**, 129 (2010).
42. Gosav, S., **Birsa, M. L.**, "Exploratory analysis on some flavonoids with anti-invasive activity using molecular descriptors and principal component analysis", *Acta Chem. Iasi*, **18**, 150-151 (2010).
43. Gosav, S., Praisler, M., **Birsa, M. L.**, "Exploratory analysis on some flavonoids with anti-invasive activity using molecular descriptors and cluster analysis", *Annals of "Dunarea de Jos" University of Galati, Mathematics, physics, theoretical mechanics*, **33**, 302-307 (2010).

44. Gosav, S., **Birsa, M. L.**, "Stepwise discriminant analysis applied in QSAR modeling of flavonoids with anti-invasive activity", *Annals of "Dunarea de Jos" University of Galati, Mathematics, physics, theoretical mechanics*, **33**, 59-65 (2010).
45. Sarbu, L. G., **Birsa, M. L.**, "Synthesis of Iodine Containing Mesoionic 2-(1,3-Dithiolium)phenolates", *Acta Chem. Iasi*, **19**, 125-135 (2011).
46. Belei, D., Bicu, E., Jones, P. G., **Birsa, M. L.**, "A Selective Synthesis of Enamines vs. Aziridines", *J. Heterocycl. Chem.*, **48**, 129-134 (2011).
47. **Birsa, M. L.**, Jones, P. G., Hopf, H., "Orthogonal π -Bridges in [2.2]Paracyclophanes", *Synlett*, **2011**, 259-261.
48. 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* **186**, 1246-1250 (2011).
49. **Birsa, M. L.**,* Jones, P. G., Hopf, H., "[2.2]Paracyclophanes with New Bridges", *Synfacts*, **2011**, 387.
50. Gosav, S., Praisler, M., **Birsa, M. L.**, *Int. J. Mol. Sci.*, "Principal Component Analysis Coupled with Artificial Neural Networks", **12**, 6668-6684 (2011).
51. Belei, D., Abuhaie, C., Bicu, E., Jones, P. G., Hopf, H., **Birsa, M. L.**, "A Direct Synthesis of Octahydropyrrolo[2,1,5-cd]indolizin-6-one Derivatives", *Synlett*, **23**, 545-548 (2012).
52. Chirita, P., Hrib, C. G., **Birsa, M. L.**, "5-Bromo-4-(3,5-dibromo-2-hydroxyphenyl)-2-(piperidin-1-yl)-1,3-dithiol-2-ylum bromide", *Acta Cryst.*, **E69**, o1097 (2013).
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.* **E69**, o1169 (2013).
54. Bahrin, L. G., Hrib, C. G., **Birsa, M. L.**, "4-Bromo-2-[5-methyl-2-(morpholin-4-yl)-1,3-thiazol-4-yl]phenol", *Acta Cryst.* **E69**, o1170 (2013).
55. Lungu, N. C., Sandu, I., Chirita, P., **Birsa, M. L.**, "New Water Soluble 1,3-Dithiolium Salts", *Rev. Chim. (Bucharest)*, **64**, 697-700 (2013).

56. Buhaceanu, R., Lungu, N. C., Forna, N. C., Asaftei, I. V., Chirita, P., **Birsa, M. L.**, "A New Class of Mesoionic 4-(1,3-Dithiol-2-ylum)phenolates", *Rev. Chim. (Bucharest)*, **64**, 803-807 (2013).
57. Buhaceanu, R., Lungu, N. C., Forna, N. C., Asaftei, I. V., Chirita, P., **Birsa, M. L.**, "The Influence of Bromine Substituent on Optical Properties of Some 1,3-Dithiolium Derivatives", *Rev. Chim. (Bucharest)*, **64**, 960-964 (2013).
58. Bahrin, L. G., Lungu, N. C., Forna, N. C., Sandu, I., **Birsa, M. L.**, "Zwitterionic 3-(1,3-Dithiol-2-ylum)phenolates", *Rev. Chim. (Bucharest)*, **64**, 1343-1346 (2013).
59. 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)*, **64**, 1404-1407 (2013).
60. Belei, D., Forna, N. C., Sandu, I., **Birsa, M. L.**, "Novel Mesoionic 2-Methyl-4-(1,3-Dithiol-2-ylum)phenolates", *Rev. Chim. (Bucharest)*, **65**, 80-83 (2014).
61. Bahrin, L. G., Luca, A., **Birsa, M. L.**, "Synthesis of New Flavanone-Dithiocarbamic Acid Esters from 2,5-Dihydroxyacetophenone", *Rev. Chim. (Bucharest)*, **65**, 199-201 (2014).
62. Lungu, N. C., Bahrin, L. G., Asaftei, I. V., Forna, N. C., Sandu, I., **Birsa, M. L.**, "Phenacyl 3-Methylpiperidinyl Carbodithioates as Building Blocks for 1,3-Dithiolium Derivatives", *Rev. Chim. (Bucharest)*, **65**, 181-184 (2014).
63. **Birsa, M. L.**, Sandu, I., Bahrin, L. G., "Synthesis of Novel Iodine-containing Tricyclic Flavanones", *Rev. Chim. (Bucharest)*, **65**, 174-176 (2014).
64. Sarbu, L. G., Lungu, N. C., Asaftei, I. V., Sandu, I., **Birsa, M. L.**, "New Evidence for the Mesoionic Character of 2-(1,3-Dithiol-2-ylum)phenolates", *Rev. Chim. (Bucharest)*, **65**, 325-327 (2014).
65. Bahrin, L. G., Craciun, B. F., Sandu, I., **Birsa, M. L.**, "Synthesis of Novel 1,3-Dithiol-2-ylidene Derivatives from the Corresponding Mesoionic Compound", *Rev. Chim. (Bucharest)*, **65**, 525-528 (2014).
66. Sarbu, L. G., Bicu, E., Hopf, H., **Birsa, M. L.**, "[2.2]Paracyclophane Substituted Indolizines", *Rev. Chim. (Bucharest)*, **65**, 398-400 (2014).

67. Gosav, S., **Birsa, M. L.**, "Multivariate study of flavonoids active against caco-2 colon carcinoma", *Rom. Rep. Phys.*, **66**, 411-426 (2014).
68. Chiriță, P., Cătălina E. Bădică, C. E., Constantin, C. A., **Birsa, M. L.**, Matei, E., Baibarac, M., "Influence of 2,2'-bipyridine on oxidative dissolution of iron monosulfide (FeS)", *Surf. Interface Anal.*, **46**, 842-846 (2014).
69. 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).
70. 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).
71. Asaftei, I. V., Alexandroaei, M., **Birsa, M. L.**, Luca, A. C., Gradinaru, R., Lungu, N. C., "The Action of a Penicillinase with Attenuated Activity on a Penicillin G Substrate", *Rev. Chim. (Bucharest)*, **65**, 903-906 (2014).
72. 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).
73. **Birsa, M. L.**, Sandu, A. V., Balan, A., "Synthesis of New 1,3-Dithiolium Derivatives from 4-Hydroxyacetophenones", *Rev. Chim. (Bucharest)*, **65**, 1435-1438 (2014).
74. Hrib, C. G., Sandu, I., Earar, K., **Birsa, M. L.**, "Synthesis of New 1,3-Dithiolium Derivatives from Propiophenones", *Rev. Chim. (Bucharest)*, **65**, 1453-1456 (2014).
75. Sarbu, L. G., Hopf, H., Gruenenberg, J., **Birsa, M. L.**, "Reduction of Pseudo-geminal Bis(ethynyl)-Substituted [2.2]Paracyclophanes", *Synlett*, **26**, 87-90 (2015).
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).
77. Asaftei, I. V., Sandu, I. G., **Birsa, M. L.**, Manea, L. R., Earar, K., "Conversion of industrial feedstock mainly with butanes and butenes over B-HZSM-5 and Zn-HZSM-5 modified catalysts", *Rev. Chim. (Bucharest)*, **66**, 336-341 (2015).
78. Asaftei, I. V., **Birsa, M. L.**, Sandu, I., Earar, K., "Conversion of industrial feedstock mainly with butanes and butenes over HZSM-5 and Zn/HZSM-5 catalysts (nitrate)", *Rev. Chim. (Bucharest)*, **66**, 000 (2015).

79. Asaftei, I. V., Chirita, P., **Birsa, M. L.**, Sarbu, L. G., "Synthesis of 1,3-Dithiol-2-ylum Salts by Functionalization of Some Toluenols", *Rev. Chim. (Bucharest)*, **66**, 000 (2015).
80. Lungu, N. C., Chirita, P., **Birsa, M. L.**, Sarbu, L. G., "Synthesis of Novel 4-(3,5-Dibromo-2-hydroxyphenyl)-5-Methyl-1,3-Dithiol-2-ylidene Derivatives", *Rev. Chim. (Bucharest)*, **66**, 000 (2015).

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 CEEEX, Modul I CERES 2CEX06-11-105 / 25.10.2006

1 contract international tip BILATERAL RO-FR