Prof. univ. dr. Anca DUMBRAVĂ

Lista lucrărilor publicate

A - Teza de doctorat

Combinații complexe polinucleare ale zincului, cadmiului și cuprului cu liganzi cu atom donor sulf

B - Cărţi şi capitole în cărţi

1. **A. Dumbrava**, *Introducere in chimia metalelor*, Editura PIM, Iasi 2014
2. **A. Dumbrava**, *Chimie*, Editura "Ovidius University Press", Constanta 2011
3. **A. Dumbrava**, *Chimie. Indrumar de laborator*, Editura "Ovidius University Press", Constanta 2011
4. I. Carazeanu Popovici, **A. Dumbrava**, *Chimie generala. Lucrari practice*, Editura "Ovidius University Press", Constanta 2011
5. **A. Dumbrava**, *Bazele teoretice ale chimiei coordinative. Probleme*, Editura "Ovidius University Press", Constanta 2004
6. **A. Dumbrava**, *Bazele teoretice ale chimiei coordinative. Lucrari practice*, Editura "Ovidius University Press", Constanta 2004
7. **A. Dumbrava**, *Chimia metalelor I*, Editura "Ovidius University Press", Constanta 2003
8. **A. Dumbrava**, *Combinatii complexe polinucleare ale zincului, cadmiului si mercurului cu liganzi organici*, Editura "World Scientific Works", Constanta 2001
9. **A. Dumbrava**, *Lucrari practice de chimia metalelor*, Editura "Ovidius University Press", Constanta 2001
10. **A. Dumbrava**, I. Carazeanu, *Lucrari practice de chimie anorganica. Sinteze in chimia anorganica*, Editura "Ovidius University Press", Constanta 2000
11. **A. Dumbrava**, I. Carazeanu, *Lucrari practice de chimie anorganica. Partea I - Chimie generala*, Editura "Ovidius University Press", Constanta 1998
12. N. Rasanu, J. Nicolae, **A. Dumbrava**, Lucrari practice de chimie organica, Tipografia Universitatii "Ovidius", Constanta 1993
13. M. Mihaesi, E. Chirila, **A. Dumbrava**, I. Carazeanu, *Caiet de lucrari practice de chimie generala pentru profil mecanic si constructii*, Tipografia Universitatii "Ovidius", Constanta 1992

C - Lucrări în reviste cotate/indexate WoS/BDI

1. I. Carazeanu Popovici, I. Rosca, **A. Dumbrava**, *Modified red clays as adsorbents in the removal of cationic dyes from aqueous solutions*, Digest Journal of Nanomaterials and Biostructures 18 (2023) 567 – 578. https://doi.org/10.15251/djnb.2023.182.567

2. **Anca Dumbrava**, Cristian Matei, Aurel Diacon, Florin Moscalu, Daniela Berger, *Novel ZnO-biochar nanocomposites obtained by hydrothermal method in extracts of Ulva lactuca collected from Black Sea*, Ceramics International 49 (2023) 10003-10013. https://doi.org/10.1016/j.ceramint.2022.11.178

3. I. Carazeanu Popovici, A. Diacon, F. Moscalu, **A. Dumbrava**, *A comparative study of the properties of yttrium and lanthanum aluminates obtained by Pechini sol-gel*

process, Journal of Ovonic Research 18 (2022) 259-271. https://doi.org/10.15251/JOR.2022.182.259

4. A. Ndiaye, A. Dioum, C.I. Oprea, **A. Dumbrava**, J. Lungu, A. Georgescu, F. Moscalu, M.A. Girtu, A.C. Beye, I. Youm, *A combined experimental and computational study of chrysanthemin as a pigment for dye-sensitized solar cells*, Molecules 26 (2021) 225. https://doi.org/10.3390/molecules26010225

5. **Anca Dumbrava**, Catalin Maxim, Rodica Olar, Mihaela Badea, Mariana Stefac, Maria Nicoleta Grecu, Marius Andruh, *One-dimensional coordination polymers constructed from copper(II) ions and chromato bridges: Synthesis, crystal structures and thermal analysis*, Inorganica Chimica Acta 509 (2020) 119663. https://doi.org/10.1016/j.ica.2020.119663

6. Cristian Matei, Daniela Berger, **Anca Dumbrava**, Marius Daniel Radu, Emma Gheorghe, *Calcium carbonate as silver carrier in composite materials obtained in green seaweed extract with topical applications*, Journal of Sol-Gel Science and Technology 93 (2020) 315–323. https://doi.org/10.1007/s10971-019-05145-6

7. **Anca Dumbrava**, D. Berger, C. Matei, G. Prodan, F. Aonofriesei, M.D. Radu, F. Moscalu, *New composite nanomaterials with antimicrobial and photocatalytic properties based on silver and zinc oxide*, Journal of Inorganic and Organometallic Polymers and Materials 29 (2019) 2072–2082. https://doi.org/10.1007/s10904-019-01166-4

8. **Anca Dumbrava**, Daniela Berger, Gabriel Prodan, Mihaela Badea, Rodica Olar, Florin Moscalu, Aurel Diacon, *A study on thermal degradation of zinc oxide nanopowders functionalized with anthocyanins, in correlation with their properties and applications*, Applied Physics A: Materials Science and Processing 124 (2018) 819. https://doi.org/10.1007/s00339-018-2227-8

9. **Anca Dumbrava**, Daniela Berger, Cristian Matei, Marius Daniel Radu, Emma Gheorghe, *Characterization and applications of a new composite material obtained by green synthesis, through deposition of zinc oxide onto calcium carbonate precipitated in green seaweeds extract*, Ceramics International 44 (2018) 4931-4936. https://doi.org/10.1016/j.ceramint.2017.12.084

10. **Anca Dumbrava**, Daniela Berger, Gabriel Prodan, Florin Moscalu and Aurel Diacon, *Considerations about the dependence of PEGylated ZnS nanoparticles properties on the synthesis method*, Zeitschrift für Physikalische Chemie 232 (2018) 61–77. https://doi.org/10.1515/zpch-2017-0005

11. G.S. Suliman, S. Birghila, **A. Dumbrava**. *Considerations about the use of lovage leaves to improve the quality of edible vegetable oils and oil blends*, Scientific Study and Research-Chemistry and Chemical Engineering Biotechnology Food Industry 19 (2018) 33-44. WOS: 000431353000004

12. Ionela Carazeanu Popovici, Georgeta Stroie, Georgeta Voicu, Florin Moscalu, Aurel Diacon, **Anca Dumbrava**, *A comparison between alkaline earth metal titanates for application as photocatalysts in wastewater treatment*, Desalination and Water Treatment 98 (2017) 115–122. https://doi.org/10.5004/dwt.2017.21706

13. **Anca Dumbrava**, Daniela Berger, Gabriel Prodan, Cristian Matei, Florin Moscalu, Aurel Diacon, *Influence of synthesis route on the structure and properties of zinc oxide nanoparticles functionalized with anthocyanins from raw vegetable extracts*, ECS Journal of Solid State Science and Technology 6 (2017), P870-P878. https://doi.org/10.1149/2.0311712jss

14. **Anca Dumbrava**, Daniela Berger, Gabriel Prodan, Cristian Matei, Florin Moscalu, Aurel Diacon, *The influence of Triton X-100 surfactant on the morphology and properties of zinc sulfide nanoparticles for applications in azo dyes degradation*, Materials Chemistry and Physics 193 (2017) 316-328. https://doi.org/10.1016/j.matchemphys.2017.02.040

15. S. Birghila, G. Baronescu, **A. Dumbrava**, *Seasonal variation and speciation of dissolved iron in an artificial surface water body*, Ovidius University Annals of Chemistry 28 (2) 43-48. https://doi.org/10.1515/auoc-2017-0007. WOS: 000431890000001

16. **Anca Dumbrava**, Daniela Berger, Gabriel Prodan, Florin Moscalu, Aurel Diacon, *Facile synthesis, characterization and application of functionalized cadmium sulfide nanopowders*, Materials Chemistry and Physics 173 (2016) 70 - 77. https://doi.org/10.1016/j.matchemphys.2016.01.040

17. **Anca Dumbrava**, Daniela Berger, Gabriel Prodan, Florin Moscalu, *Functionalized ZnO/CdS composites: synthesis, characterization and photocatalytic applications*, Chalcogenide Letters 13 (2016) 105 – 115. WOS: 000377185200003

18. **Anca Dumbrava**, Jeanina Lungu, Alexandru Ion, *Green seaweeds extract as co-sensitizer for dye sensitized solar cells*, Scientific Study & Research Chemistry & Chemical Engineering, Biotechnology, Food Industry 17 (2016) 013 – 025. WOS: 000376156700002

19. **Anca Dumbrava,** Gabriel Prodan, Adrian Georgescu, Florin Moscalu, *Dependence of ZnO-based dye-sensitized solar cell characteristics on the layer deposition method*, Bulletin of Materials Science 38 (2015) 1–8. https://doi.org/10.1007/s12034-014-0793-8

20. **Anca Dumbrava,** Rodica Olar, Mihaela Badea, Catalin Maxim, Daniela Ghica, Marius Andruh, *New coordination polymers with chromato bridges:* $^{1}_{\infty}[Ni(phen)(H_2O)_2(\mu\text{-}O_2CrO_2)]$ *and* $^{3}_{\infty}[Mn(4,4'\text{-}bipy)(H_2O)(\mu\text{-}O_3CrO)]\cdot H_2O$, Inorganica Chimica Acta 426 (2015) 50–54. https://doi.org/10.1016/j.ica.2014.11.009

21. **A. Dumbrava,** G. Prodan, D. Berger, M. Bica, *Properties of PEG-capped CdS nanopowders synthesized under very mild conditions*, Powder Technology 270 (2015) 197-204. https://doi.org/10.1016/j.powtec.2014.10.012

22. **A. Dumbrava,** S. Birghila, M. Munteanu, *Contributions on enhancing the copper uptake by using natural chelators, with applications in soil phytoremediation*, International Journal of Environmental Science and Technology 12 (2015) 929-938. https://doi.org/ 10.1007/s13762-013-0467-x

23. Jeanina Lungu, Adrian Georgescu, **Anca Dumbrava**, *Enhancing the efficiency of azo-based dye sensitized solar cells by surface treatments*, Scientific Study &

Research. Chemistry & Chemical Engineering, Biotechnology, Food Industry 16 (2015) 069 – 074. WOS: 000366598100007

24. **A. Dumbrava,** R. Olar, M. Badea, M. N. Grecu, F. Patrascu, L. Marutescu, N. Stanica, *Synthesis and characterisation of Ni(II), Cu(II), and Zn(II) complexes with an acyclic Mannich base functionalised with thioglycolate moiety*, Journal of Thermal Analysis and Calorimetry 115 (2014) 2447–2455. https://doi.org/10.1007/s10973-013-3437-0

25. **A. Dumbrava**, G. Prodan, F. Moscalu, *Investigations on the influence of surfactant in morphology and optical properties of zinc oxide nanopowders for dye-sensitized solar cells applications*, Materials Science in Semiconductor Processing 16 (2013) 1095–1104. https://doi.org/10.1016/j.mssp.2013.03.007

26. C. I. Oprea, P. Panait, J. Lungu, D. Stamate, **A. Dumbravă**, F. Cimpoesu, M. A. Gîrţu, *DFT Study of Binding and Electron Transfer from a Metal-Free Dye with Carboxyl, Hydroxyl, and Sulfonic Anchors to a Titanium Dioxide Nanocluster*, International Journal of Photoenergy 2013 (2013) 893850. https://doi.org/10.1155/2013/893850

27. **Anca Dumbrava**, Semaghiul Birghila, Daniela Stamate, *Considerations on the influence of complexation in the copper uptake and translocation*, Scientific Study & Research. Chemistry & Chemical Engineering, Biotechnology, Food Industry 14 (2013) 135 – 144. WOS: 000217254200001

28. C. I. Oprea, **A. Dumbrava**, I. Enache, A. Georgescu, M. A. Girtu, *A combined experimental and theoretical study of natural betalain pigments used in dye-sensitized solar cells*, Journal of Photochemistry and Photobiology A: Chemistry 240 (2012) 5– 13. https://doi.org/10.1016/j.jphotochem.2012.05.003

29. **A. Dumbravă**, I. Enache, C. I. Oprea, A. Georgescu, M. A. Gîrţu, *Toward a more efficient utilisation of betalains as pigments for Dye-Sensitized Solar Cells*, Digest Journal of Nanomaterials and Biostructures 7 (2012) 339 – 351. WOS: 000303649000037

30. Corneliu I. Oprea, **Anca Dumbrava**, Irina Enache, Jeanina Lungu, Adrian Georgescu, Florin Moscalu, Camelia Oprea, Mihai A. Girtu, *Role of energy level alignment in solar cells sensitized with a metal-free organic dye: A combined experimental and theoretical approach*, Physica Status Solidi A 208 (2011) 2467–2477. https://doi.org/10.1002/pssa.201127083

31. C. I. Oprea, F. Moscalu, **A. Dumbrava**, S. Ioannou, A. Nicolaides, M. A. Girtu, *DFT study of the optical and vibration spectra of a series of platinum-olefin complexes*, Romanian Journal of Physics 56 (2011) 125 – 133. WOS: 000288830200014

32. J. Lungu, C. I. Oprea, **A. Dumbravă**, I. Enache, A. Georgescu, C. Rădulescu, I. Ioniţă G. V. Cimpoca, M. A. Girţu, *Heterocyclic azodyes as pigments for dye sensitized solar cells – A combined experimental and theoretical study*, Journal of Optoelectronics and Advanced Materials 12 (2010) 1969 – 1975. WOS: 000283514700024

33. **A. Dumbrava**, C. Badea, G. Prodan, V. Ciupina, *Synthesis and characterization of cadmium sulfide obtained at room temperature*, Chalcogenide Letters 7 (2010) 111 – 118. WOS: 000276003600005

34. C. I. Oprea, F. Moscalu, **A. Dumbravă**, S. Ioannou, A. Nicolaides, M. A. Gîrţu, *Optical and infrared properties of a series of pyramidalized olefin Pt-complexes - DFT study*, Journal of Optoelectronics and Advanced Materials 11 (2009) 1773 – 1778. WOS: 000273490400036

35. **A. Dumbrava**, C. Badea, G. Prodan, I. Popovici, V. Ciupina, *Zinc sulfide fine particles obtained at low temperature*, Chalcogenide Letters 6 (2009) 437 – 443. WOS: 000273137000008

36. **A. Dumbrava**, S. Birghila, *Analysis of Some Metal Levels in Danube River Water*, Environmental Engineering and Management Journal 8 (2009) 219 - 224. WOS: 000285523600005

37. C. I. Oprea, **A. Dumbrava**, F. Moscalu, A. Nicolaides, M. A. Girtu, *DFT Study of Optical Properties of Pt-based Complexes*, AIP Conference Proceedings 1203, 7th International Conference of the Balkan Physical Union, Alexandroupolis, Greece, 9-13 September 2009, pp. 1198 – 1203. WOS: 000281467300219

38. Irina Enache, Semaghiul Birghila, **Anca Dumbrava**, *The Danube River water quality characteristics in the Braila Town*, Ovidius University Annals of Chemistry 20 (2009) 146 - 152.

39. **A. Dumbrava**, A. Georgescu, G. Damache, C. Badea, I. Enache, C. Oprea, M. A. Girtu, *Dye-sensitized solar cells based on nanocrystalline TiO_2 and natural pigments*, Journal of Optoelectronics and Advanced Materials 10 (2008) 2996 – 3002. WOS: 000261348200033

40. R. Olar, M. Badea, O. Carp, D. Marinescu, V. Lazar, C. Balotescu, **A. Dumbrava**, *Synthesis, characterisation and thermal behaviour of some thiosulfato- and sulfatocopper (II) complexes - Antibacterial activity*, Journal of Thermal Analysis and Calorimetry 92 (2008) 245 – 251. https://doi.org/10.1007/s10973-007-8768-2

41. V. Ciupina, **A. Dumbrava**, I. Morjan, G. Prodan, M. Prodan, F. Dumitrache, E. Vasile, *ZnO nanoparticles obtained by hydrothermal method at low temperature*, Proceedings of SPIE - The International Society for Optical Engineering, vol. 7039, article number 703911 **(**2008). WOS: 000262945300023

42. **A. Dumbrava**, S. Birghila, I. Enache, *Water quality characteristics along the course of Danube River. III. The Cernavoda area*, Ovidius University Annals of Chemistry 19 (2008) 19 - 26.

43. **A. Dumbrava**, S. Dobrinas, S. Birghila, *Water quality characteristics along the course of Danube River. II. The Harsova area*, Ovidius University Annals of Chemistry 18 (2007) 124 – 131.

44. **A. Dumbrava**, S. Dobrinas, S. Birghila, *Water quality characteristics along the course of Danube River. I. The Rasova area*, Ovidius University Annals of Chemistry 18 (2007) 84 – 89.

45. **A. Dumbrava**, V. Ciupina, B. Jurca, G. Prodan, M. Brezeanu, *Mixed complex sulfides of cadmium and iron with p-diaminobenzene as ligand*, Revue Roumaine de Chimie 51 (2006) 871 – 875. WOS: 000246035800003

46. **A. Dumbrava**, M. Botnarciuc, E. Feizula, *Compounds of zinc with rhodanines and their antimicrobial properties*, Ovidius University Annals of Chemistry 17 (2006) 252 – 255.

47. I. Carazeanu Popovici, M. Girtu, **A. Dumbrava**, E. Chirila, V. Ciupina, G. Prodan, *Preparation and characterisation of nano-TiO_2 powder*, Ovidius University Annals of Chemistry 17 (2006) 230 – 233.

48. **A. Dumbrava**, V. Ciupina, B. Jurca, G. Prodan, E. Segal, M. Brezeanu, *Synthesis of cadmium complex sulfides nanoparticles by thermal decomposition*, Journal of Thermal Analysis and Calorimetry 81 (2005) 399 – 405. https://doi.org/10.1007/s10973-005-0799-y

49. **A. Dumbrava**, B. Jurca, V. Ciupina, E. Segal, M. Brezeanu, *Nanoparticles of zinc compounds obtained by thermo oxidative degradation*, Journal of Thermal Analysis and Calorimetry 79 (2005) 509 – 514. https://doi.org/10.1007/s10973-005-0570-4

50. **A. Dumbrava**, V. Ciupina, G. Prodan, *Dependence on grain size and morphology of ZnS particles by the synthesis route*, Romanian Journal of Physics 50 (2005) 831 – 836.

51. S. Dobrinas, S. Birghila, **A. Dumbrava**, *Determination of Fe, Cu and Cr from surface waters by standard addition method*, Ovidius University Annals of Chemistry 16 (2005) 51 – 53.

52. S. Birghila, **A. Dumbrava**, S. Dobrinas, *Determination of heavy metals from ecosystem of Vrancea Mountains*, Environmental Engineering and Management Journal 3 (2004) 695 – 700.

53. **A. Dumbrava**, V. Ciupina, G. Prodan, *Control of grain size and morphology of CdS particles by the synthesis route*, Romanian Journal of Physics 49 (2004) 265–272.

54. **A. Dumbrava**, R. Olar, *Complex compounds with mixed ligands. III. Complex compound of zinc and iron with p-diaminobenzene and thiosulfate*, Ovidius University Annals of Chemistry 15 (2004) 5 – 8.

55. **A. Dumbrava**, *Aspects of the biological chemistry of zinc*, Farmacia LII (2004) 94-104.

56. **A. Dumbrava**, S. Birghila, S. Dobrinas, *Analytical characterization of an ecosystem of Vrancea Mountains*, Ovidius University Annals of Chemistry 14 (2003) 36 – 38.

57. R. Olar, D. Marinescu, E. Cristurean, M. Badea, L. Ivan, **A. Dumbrava**, *Template condensation reaction. XI. Ba(II), Ni(II), Co(II) and Cu(II) complexes with the Schiff base derived from 2, 2' - methylenebiscyclohexanone and diethylenetriamine*, Ovidius University Annals of Chemistry 13 (2002) 5 – 9.

58. M. Badea, R. Olar, D. Marinescu, E. Cristurean, L. Ivan, **A. Dumbrava**, *Complexes with triazole derivatives. I. Mononuclear complexes of Ni(II) and Cu(II) with 1-imethylamino-N-(o-tolyl)s-1H-benzotriazole*, Ovidius University Annals of Chemistry 13 (2002) 10 – 13.

59. **A. Dumbrava**, R. Olar, I. Enache, *Complex compounds with mixed ligands. II. Complex compounds of cadmium and iron with p-diaminobenzene and thiosulfate*, Ovidius University Annals of Chemistry 12 (2001) 5 – 8.

60. **A. Dumbrava**, S. Dan, *Metallothioneins*, Farmacia XLIX (2001) 69-77.

61. **A. Dumbrava,** N. Rasanu, V. Ionescu, *Metal complex dyestuffs. I. Zinc (II) complexes of disazodyestuffs*, Ovidius University Annals of Chemistry 10 (1999) 19 – 24.

62. E. Cristurean, R. Olar, **A. Dumbrava**, *Template condensation reactions. V. Complex of Mn(III) with a macrociclic ligand resulted from [2+2] condensation reaction of triethylenetetramine with m-phthalic acid dichloride*, Ovidius University Annals of Chemistry 10 (1999) 5 – 11.

63. E. Cristurean, R. Olar, **A. Dumbrava**, *Template condensation reactions. VI. Complexes of Cr (III) with a macrociclic ligand resulted from [2+2] condensation reaction of triethylenetetramine with m-phthalic acid chloride*, Ovidius University Annals of Chemistry 10 (1999) 12 – 18.

64. **A. Dumbrava**, R. Olar, F. C. Enoae, *Complex compounds of Zn(II) and Cd(II) with rhodanine*, Ovidius University Annals of Chemistry 9 (1998) 5 – 10.

65. **A. Dumbrava**, R. Olar, L. Iacob, *Complex compounds with mixed ligands. I. Complex compounds of Zn(II) and Cd(II) with p-diaminobenzene and thiosulfate*, Ovidius University Annals of Chemistry 9 (1998) 11 – 17.

66. E. Cristurean, D. Marinescu, L. Ivan, R. Olar, M. Badea, **A. Dumbrava**, *Template condensation reactions involving ethylenediamine and carbonyl derivatives. III. Complexes of Fe(II) and Co(II) resulting in the system bisoxo-2, 2'-biscyclohexylmethane and ethylenediamine*, Ovidius University Annals of Chemistry 7 (1996) 1 – 5.

67. E. Cristurean, D. Marinescu, R. Olar, M. Badea, **A. Dumbrava**, *Template condensation reactions involving ethylenediamine and carbonyl derivatives. IV. Complexes of Cr(III) and Co(III) resulting in system diethylbarbituric acid – etylenediamine*, Ovidius University Annals of Chemistry 7 (1996) 6 – 11.

68. D. Marinescu, E. Cristurean, M. Badea, R. Olar, I. Baciu, **A. Dumbrava**, *Complex compounds with heterocyclic ligands. II. Ni(II) and Cu(II) complexes with 2, 3 – dihydroxyquinoxaline*, Ovidius University Annals of Chemistry 7 (1996) 12 – 16.

69. D. Marinescu, E. Cristurean, M. Badea, R. Olar, G. Loloiu, **A. Dumbrava**, *Complex compounds with heterocyclic ligands. III. Complex compounds of Zn(II) and Cd(II) with isatin derivatives*, Ovidius University Annals of Chemistry 7 (1996) 17 – 22.

70. E. Cristurean, D. Marinescu, R. Olar, M. Badea, **A. Dumbrava**, *Complexes of Fe(II), Ni(II) and Cu(I) with 2-amino-5-mercapto-1,3,4-thiadiazole*, Ovidius University Annals of Chemistry 5 (1994) 10 – 16.

71. D. Marinescu, E. Cristurean, M. Badea, R. Olar, **A. Dumbrava**, *Zn(II) complexes with disubstituted 1,3,4-thiadiazole*, Ovidius University Annals of Chemistry 5 (1994) 17 – 22.

72. M. Badea, R. Olar, Gh. Loloiu, **A. Dumbrava**, D. Marinescu, *Complex compounds of Cr(III) with an isatin-derivative*, Ovidius University Annals of Chemistry 5 (1994) 5 – 9.

73. **A. Dumbrava**, *Synthesis of some aromatic amines*, Ovidius University Annals of Chemistry 4 (1993) 18 – 24.

74. R. Olar, **A. Dumbrava**, *Complex of Fe(II) with 2 - amino - 5 - mercapto - 1, 3, 4 – thiadiazole*, Ovidius University Annals of Chemistry 3 (1992) 5 – 8.

75. S. Birghila, **A. Dumbrava**, *Aspects of the aquatic sedimentology studies*, Ovidius University Annals of Chemistry 3 (1992) 36 – 39.

76. N. Rasanu, **A. Dumbrava**, *Sinteza unor rasini epoxidice pe baza de bis(p-hidroxifenil)ciclohexan*, Ovidius University Annals of Chemistry 2 (1991) 28 – 32.

D - Lucrări publicate în volume cu referenţi (neindexate)

1. S. Birghila, I. Enache, **A. Dumbrava**, *Spectrophotometric determination of iron in soil samples by standard addition method*, Proceedings of the 10th International Symposium on Metal Elements in Environment, Medicine and Biology Timişoara 2010, pp. 107 - 110 (2010). ISSN 1583-4204

2. **A. Dumbrava**, S. Birghila, M. Belc, *A comparison between different extraction methods used for the determination of iron mobile forms*, Proceedings of the 10th International Symposium on Metal Elements in Environment, Medicine and Biology Timişoara 2010, pp. 131 - 134 (2010). ISSN 1583-4204

3. **A. Dumbrava**, V. Ciupina, B. Jurca, G. Prodan, *Synthesis of complex sulfides nanoparticles from complexes of cadmium and iron*, in "Advances in Micro and Nanoengineering", pp. 80 – 88, Editura Academiei Romane, Bucuresti 2004. ISBN: 973-27-1110-8

E – Brevete acordate în întreaga activitate

N. Rasanu, **A. Dumbrava**, C. Albu, C. Maraloi, *Brevet de inventie numarul 99852/1987* - Coloranti disazoici cromatabili si procedeu de obtinere a acestora

25.11.2023