Dr. Chim. Maranescu Bianca Elena

LISTA LUCRĂRILOR PUBLICATE

A. Teză de doctorat

Studii teoretice şi experimentale privind hibrizi organici/anorganici conţinând compuşi element – organici
Conducător Științific: Prof. Dr. Zeno Simon, Membru Corespondent al Academiei Române
Academia Română, Institutul de Chimie Coriolan Drăgulescu
Susținută public în 21.10.2011

Titlul de Doctor confirmat prin OMEdC 4698 / 26.04.2012

B. LUCRĂRI ŞTIINŢIFICE PUBLICATE ÎN JURNALE INDEXATE ÎN WEB OF SCIENCE publicate în perioada 2005- 2024

1. Lupa L., Tolea N.S, Iosivoni M., Maranescu B., Plesu N., Visa A., Performance of ionic liquid functionalized metal organic frameworks in the adsorption process of phenol derivatives, RSC Advances, 2024, 14, 4759-4777, DOI10.1039/d3ra08024b, WOS:001157822200001, (Q2)

2. Plesu N., Macarie L., Mihali M., Maranescu B., Visa A., Jurcau D., Polyester-Based Coatings with a Metal Organic Framework: An Experimental Study for Corrosion Protection, Journal of Composites Science, 2023, 7 (10), 422. DOI10.3390/jcs7100422, WOS:001093651100001, (Q2)

3. Plesu N., Maranescu B., Mihali M., Visa A., Electrochemical Oxidation of Phenol Released from Spent Coordination Polymer Impregnated with Ionic Liquid, Journal of Composites Science, 2023, 7(12), 510, DOI10.3390/jcs7120510, WOS:001131395400001, (Q2)

4. Maranescu B., Visa A., Applications of Metal-Organic Frameworks as Drug Delivery Systems, International Journal of Molecular Sciences, 2022, 23(8), 4458, DOI10.3390/ijms23084458, WOS:000786255600001, (Q1)

5. Marganovici M., Maranescu B., Visa A., Lupa L., Hulka I., Chiriac V., Ilia G., Hybrid Coordination Networks for Removal of Pollutants from Wastewater, International Journal of Molecular Sciences, 2022, 23 (20), 12611. DOI10.3390/ijms232012611, WOS:000873052800001, (Q1)

6. Nichita I., Visa A., Maranescu B., Lupa L., Popa A., Synthesis and Characterization of Modified Chitosan with Aminophosphonic Groups and Zn (II) Ions and Assessment as Potential Antibacterial Adsorbent, Materiale Plastice, 2022, 59 (4), 125-134, DOI10.37358/MP.22.4.5631, WOS:000965030700011

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8. Visa A., Ilia G., Lupa L., Maranescu B, Use of highly stable phosphonate coordination polymers as adsorbents for wastewater, Applied Organometallic Chemistry, 2021, 35(5), e6184, DOI10.1002/aoc.6184, WOS:000615201500001, (Q1)

9. Popa A., Visa A., Maranescu B., Hulka I., Lupa L., Chemical modification of chitosan for removal of Pb (II) ions from aqueous solutions, Materials, 2021, 14(24),7894, DOI10.3390/ma14247894, WOS:000738664600001, (Q2)

10. Visa A., Maranescu B., Lupa L., Crisan L., Borota A., New Efficient Adsorbent Materials for the Removal of Cd (II) from Aqueous Solutions, Nanomaterials, 2020, 10(5), 899, DOI10.3390/nano10050899, WOS:000540781800082, (Q1)

11. Visa A., Plesu N., Maranescu B., Ilia G., Borota A., Crisan L., A combined experimental and theoretical insights into the corrosion inhibition activity on carbon steel iron of phosphonic acids, Molecules, 2020, 26(1), 135, DOI10.3390/molecules26010135, WOS:000606214600001, (Q2)

12. Nistor M.A., Muntean S.G., Maranescu B., Visa A, Phosphonate metal-organic frameworks used as dye removal materials from wastewaters, Applied Organometallic Chemistry, 2020, 34(11), e5939, DOI10.1002/aoc.5939, WOS:000552629100001, (Q1)

13. Maranescu B., Lupa L., Visa A., Synthesis, characterization and rare earth elements adsorption properties of phosphonate metal organic frameworks, Applied Surface Science, 2019, 481, 83-91, DOI10.1016/j.apsusc.2019.03.067, WOS:000472176900011, (Q1)

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15. Cocheci L., Lupa L., Pop A., Visa A., Maranescu B., Popa A., Photocatalytical Degradation of Congo Red Azo Dye Using Phosphono-Aminoacid-Cd (II) Pendant Groups Grafted on a Polymeric Support, Revista de Chimie, 2019, 70(10), 3473-3476, WOS:000500795900005

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18. Maranescu B., Lupa L., Mihali M.T.L., Plesu N., Maranescu V., Visa A., The

corrosion inhibitor behavior of iron in saline solution by the action of magnesium carboxyphosphonate, Pure and Applied Chemistry, 2018, 90(11), 1713-1722, DOI10.1515/pac-2018-0513, WOS:000450639300006

19. Maranescu B., Lupa L., Visa A., Heavy metal removal from waste waters by phosphonate metal organic frameworks, Pure and Applied Chemistry, 2018, 90(1), 35-47, DOI10.1515/pac-2017-0307, WOS:000426360200004

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21. Maranescu B., Lupa L., Visa A., Synthesis, characterizations and Pb (II) sorption properties of cobalt phosphonate materials, Pure and Applied Chemistry, 2016, 88(10-11), 979-992, DOI10.1515/pac-2016-0709, WOS:000393350200008

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C. LUCRĂRI ŞTIINŢIFICE ÎN EXTENSO PUBLICATE ÎN REVISTE DIN STRĂINATATE FĂRĂ FACTOR DE IMPACT

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D. LUCRĂRI ŞTIINŢIFICE ÎN EXTENSO PUBLICATE ÎN REVISTE DIN ŢARĂ FĂRĂ FACTOR DE IMPACT

1. Petric M., Crisan L., Micle A., Crisan M., Maranescu B., Ilia G., Preliminary MLR study of phosphoramidate derivatives based on Dragon descriptor, *Annals of West University of Timisoara, Series of Chemistry,* 20(3), , 2011, 13-18, (ISSN 1224-9513).

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3. Căpriţă A., Căpriţă R., Cozmiuc C., Maranescu B., Sărăndan H., Simultaneous determination of mycotoxins (ochratoxin a and deoxynivalenol) in biological samples, *Journal of Agroalimentary Processes and Technologies*, XIII(2), 2007, 353-358

4. Maranescu B., Glevitzk M., PetricM, Crisan L., Correlations between HPLC. Foctor and Molecular Descriptors for Phosphoramidic Acid Derivatives, *Annals of University of Timisoara,Series Chemistry* , nr.14(2), 2005, 205-212

E. LUCRĂRI ŞTIINŢIFICE ÎN EXTENSO PUBLICATE ÎN VOLUMELE UNOR MANIFESTĂRI ŞTIINŢIFICE INTERNAŢIONALE

1. Visa A., Maranescu B., Bucur A., Alternative synthesis routes for phosphonates metal organic frameworks, *Proceedings of The Seventh Edition of the Symposium with International Participation New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Enviromental Protection, Timisoara, Romania, 5-6 iunie,* 2014, 93-97

2. Maranescu B., Bucur A., Visa A., Hydrothermal synthesis of metal organic framework based on phosphonate ligand with phenyl vinyl functional group, *Proceedings of the Seventh Edition of the Symposium with International Participation New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Enviromental Protection, Timisoara, Romania, 5-6 iunie*, 2014, 120-124

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5. Maranescu B., Visa A., Maranescu V., Electronic properties determination of phosphonate divalent metal organic framework, *Proceedings of the 6th Symposium, New Trends and Strategies in the Chemistry of Advanced Materials, Timisoara, Romania, 8-9 noiembrie*, 2012,111-114

6. Maranescu B., A. Vişa, S. Iliescu, G. Ilia, Z. Simon, Synthesis and characterization of a new metal organic framework, *Proceedings of the 17th Symposium on analytical and environmental problems, Szeged, Hungary, 19 September*, 2011, 327-331

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D. LUCRĂRI ŞTIINŢIFICE ÎN REZUMAT PUBLICATE LA MANIFESTĂRI ŞTIINŢIFICE INTERNAŢIONALE

1. Visa A., Maranescu B., Lupa L., Metal(II) coordination polymers based on bisphosphonates or mixed imidazole ligands and bisphosphonates: green syntheses and applications 8th International Workshop of Materials Physics, *17-19 Mai 2023, Măgurele, Romania*, O-10, 32

2. Maranescu B., Visa A., Lupa L., Heterogeneous catalyst based on vinyl phosphonate in sustainable syntheses *8th International Workshop of Materials Physics, 17-19 Mai 2023*, Măgurele, Romania, P5, 81

3. Visa A., Maranescu B., Lupa L., Green Alternative Approaches to the Synthesis of Metal Organic Frameworks, *4th International Conference on Phosphonate Chemistry, Science and Technology, 2-4 Octombrie 2023 Heraklion, Greece*, L4, 15

4. Plesu N., Maranescu B., Visa A., The electrochemical oxidation of spent metal framework impregnated with ionic liquid, phenol degradation *4th International Conference on Phosphonate Chemistry, Science and Technology, 2-4 Octombrie 2023 Heraklion, Greece*, L21, 32

5. Visa A., *Maranescu B.*, Plesu N., Lupa L.Greener Alternatives for Phosphonate Metal Organic Frameworks Synthesis, Smart Diaspora 2023, 10-13 Aprilie 2023, Timișoara, Romania

6. Visa A., Maranescu B., Lupa L. Green Alternatives for Synthesis of Metal Organic Frameworks, 49th IUPAC World Chemistry Congress, 20-25 August 2023, Haga, Olanda, 737

7. Iosivoni M., Maranescu B., Visa A., Phosphonate metal organic frameworks as environmentally friendly adsorbent materials, *New trends in Chemistry Research, Ed. 15, 21-22 Octombrie 2023,Romania*, 83

8. Visa A., Maranescu B., Lupa L., Ionic Liquids-modified Metal Organic Frameworks: Preparation and Application in Adsorption, *9th IUPAC International Conference on Green Chemistry (9th ICGC), 5-9 September 2022, Athens, Greece, 144*

9. Visa A., Maranescu B., Lupa L., Metal organic frameworks: complexity and diversity in structures and green applications, *13th Green Chemistry Postgraduate Summer School Online, 4-10 Iulie 2021, Venetia, Italia*

10. Maranescu B., Plesu N., Visa A., Phosphonic, Acid and Phosphonate Metal Organic Framework as Cheap, Safe and Easy to Handle with Potentially Retarded Corrosion Inhibiting Effect, *10th European Exhibition of Creativity and Innovation, 16-18 May 2019, Iasi, Romania*, 496

11. Visa A., Maranescu B., Muntean SG., Nistor A., Lupa L., Phosphonate Metal Organic Frameworks with N-donor Auxiliary Ligands: Diversity and Complexity in Structure and Applications, *12th International Conference on Advanced Nanomaterials,17-19 July 2019, Aveiro, Portugal*

12. Nistor M.A., Muntean S.G., Maranescu B., Visa A. Removal of dyes from aqueous solutions by phosphonate metal organic frameworks *21th Romanian International Conference on Chemistry and Chemical Engineering (RICCCE 21), 4-7 Septembrie, Mamaia, România, 2019*, S5-22

13. Maranescu B., Visa A., Effect of imidazole arrangements on proton-conductivity in divalent phosphonate metal-organic framework, *47th Iupac World Chemistry Congress, 7-12 July 2019, Paris, Franta*, 1337

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16. Visa A., Maranescu B., Arico F., Phosphonate Metal Organic Frameworks as Heterogeneous Catalyst in Sustainable Green Solvent, *10th European Exhibition of Creativity and Innovation, 16-18 May 2019, Iasi, Romania*, 495

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18. Lupa L., Maranescu B., Visa A., Rare Earth Elements Removal from Aqueous Solutions by Phosphonates Metal Organic Frameworks, *10th European Exhibition of Creativity and Innovation, 16-18 May 2019, Iasi, Romania*, 497

19. Maranescu B., Ilia G., Lupa L., Visa A, Use of highly stable phosphonate metal organic framewoks as adsorbents for wastewater, *28th Symposium on Thermal Analysis and Calorimetry – Eugen Segal – of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy (CATCAR28) & 2nd Symposium on Thermal Analysis and Calorimetry of Moldova (MoldTAC2), 9-10 mai 2019, Timisoara, Romania*, 60.

20. Visa A., Maranescu B., Lupa L., Synthetic parameters influence on adsorption properties of metal organic frameworks based on phosphonates, *25th Jubilee Assembly of Advanced Materials Congress, 24-27 March 2019, Stockholm, Suedia*

21. Maranescu B., Lupa L., Visa A., Phosphonate metal organic framework: preparation and application, *11th Edition of symposium with international*

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22. Visa A., Maranescu B., Lupa L., Heterogenous catalyst for efficient organic transformation in green chemistry solvent, *11th Edition of symposium with international participation New trends and strategies in the chemistry of advanced materials with relevance in biological systems, technique and environmental protection, 28-29 June 2018, Timisoara, Romania*, 58

23. Maranescu B., Lupa L., Visa A., Phosphonic Acid vs Phoaphonate Metal Organic Framework Influence on Mild Steel Corrosion Protection, *11th International Conference on Advanced Nanomaterials,18-20 July 2018, Aveiro, Portugal*, ID-37

24. Vișa A., Maranescu B., Lupa L., Synthesis, Characterization and Rare Earth Elements Adsorption Properties of Phoaphonate Metal Organic Frameworks, *11th International Conference on Advanced Nanomaterials, 18-20 July 2018, Aveiro, Portugal,* ID-371

25. Maranescu B., Lupa L., Visa A., Adsorption of Metal Ions from Waste Waters by Conventional and Unconventional Metal Organic Frameworks Based on Phosphonates, *8th International IUPAC Conference on Green Chemistry, 9-14 September 2018, Bangkok, Tailanda*, PL-017

26. Visa A., Lupa L., Maranescu B., Effect of coligands arrangements on adsorption properties of phosphonate metal organic frameworks, *8th International IUPAC Conference on Green Chemistry, 9-14 September 2018, Bangkok, Tailanda*, PL-016

27. Maranescu B., Visa A, Plesu N., Lupa L. Improved corrosion protection with metal organic frameworks based on phosphonates, *5th International Conference on Methods and Materials for Separation Processes "SEPARANTION SIENCE -THEORY AND PRACTICE", 26-30 August 2018, Kudowa Zdroj, Poland*, 168

28. Visa A., Maranescu B., Popa A., Lupa L. Study on adsorption of rare earth elements from waste waters with metal organic frameworks, *5th International Conference on Methods and Materials for Separation Processes "SEPARANTION SIENCE-THEORY AND PRACTICE", 26-30 August 2018, Kudowa Zdroj, Poland*

29. Nistor A., Muntean S., Maranescu B., Visa A., Removal of Acid Orange 7 dye from aqueos solutions, using metal organic frameworks based on phosphonates, XXth Symposium *"Young People and Multidisciplinary Research", 15-16 November 2018, Timisoara, Romania*

30. Maranescu B., Visa A., Lupa L., Determination of heavy metals in waste waters and their removal by phosphonate metal organic frameworks *10th Symposium New Trends and Strategies in the Chemistry of Advanced Materials, 8-9 Iunie 2017, Timisoara, Romania*, 72

31. Visa A., Maranescu B., Heterogenous catalyst application of phosphonate metal organic framework, *10th Symposium New Trends and Strategies in the Chemistry of Advanced Materials, 8-9 Iunie 2017, Timisoara, Romania*, 60

32. Maranescu B., Plesu N., Visa A., Maranescu V., Carboxyphosphonate metal accurate corrosion inhibitor for iron in diluted nitric acid saline solution, *20th Romanian International Conference on Chemistry and Chemical Engineering, 6-9 Septembrie, 2017, Poiana Brasov, Romania*, S3-283

33. Visa A., Maranescu B., Bucur A., Synthesis and characterization of a novel coordination polymer starting from zinc salt, *20th Romanian International Conference on Chemistry and Chemical Engineering, Poiana Brasov, Romania, 6-9 Septembrie, 2017, Poiana Brasov, Romania*, S6-282

34. Maranescu B., Plesu N., Maranescu V., Visa A., The corrosion inhibitor behavior of iron in saline solution by the action of carboxyphosphonate metal, *7th International IUPAC Conference on Green Chemistry, 2-5 Octombrie 2017 Moscova, Rusia*, 89

35. Visa A., Maranescu B., Lupa L., Use of metal organic frameworks as new efficient adsorbent materials in the removal process of Cd (II) from aqueous solutions, *7th International IUPAC Conference on Green Chemistry, 2-5 Octombrie 2017, Moscova, Rusia*, 101

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38. Visa A., Maranescu B., Bucur A., Lupa L., The influence of synthetic parameters on the metal (II) carboxyphosphonate properties, *16th IUPAC Conference Polymer Organic Chemistry, 13-16 Iunie 2016, Hersonissos, Creta, Grecia*, PS 65, 117

39. Maranescu B., Lupa L., Visa A., Impressive diversity of applications for phosphonate metal organic frameworks, *16th IUPAC Conference Polymer Organic Chemistry, 13-16 Iunie 2016, Hersonissos, Creta, Grecia*, OR 31, 62

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