

LISTA LUCRĂRILOR PUBLICATE

A. Teză de abilitare

Titlul „Cercetări avansate privind sinteza, caracterizarea și aplicațiile rețelelor metal organice,, în domeniul de studii universitare de doctorat Chimie
Universitatea de Vest din Timișoara, IOSUD
Susținută public în 7.11.2024

B. Teză de doctorat

Titlul „Studii teoretice și experimentale privind hibridi organici/anorganici conținând compuși element-organici,, în domeniul Chimie
Conducător Științific: Prof. Dr. Zeno Simon, Membru Corespondent al Academiei Române
Academia Română, Institutul de Chimie Coriolan Drăgulescu
Susținută public în 21.10.2011

C. LUCRĂRI ȘTIINȚIFICE 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. Merghes P., Ilia G., Maranescu B., Varan N., Simulescu V., The Sol–Gel Process, a Green Method Used to Obtain Hybrid Materials Containing Phosphorus and Zirconium, Gels, 2024, 10(10), 656, <https://doi.org/10.3390/gels10100656>, WOS:001341991100001, (Q1).
3. 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)
4. 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)
5. 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)
6. Marganovici M., Maranescu B., Visa A., Lupa L., Hulka I., Chiriac V., Ilia G., Hybrid Coordination Networks for Removal of Pollutants from Wastewater,

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7. 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
 8. García M., Vílchez. A, Maranescu B., Pastor P; Marganovici M., Ilia G., Cabeza Díaz A., Visa A., Pérez Colodrero R., Synthesis and Electrochemical properties of metal (II)-carboxyethylphenylphosphinates, *Dalton Transactions*, 2021, 50(19), 6539-6548, DOI10.1039/d1dt00104c, WOS:000642584600001, (Q1)
 9. 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)
 10. 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)
 11. 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)
 12. 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)
 13. 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)
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 15. Maranescu B., Plesu N., Visa A., Phosphonic acid vs phosphonate metal organic framework influence on mild steel corrosion protection, *Applied Surface Science*, 2019, 497, 143734, DOI10.1016/j.apsusc.2019.143734, WOS:000487849800078, (Q1)
 16. Coheci 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
 17. Lupa L., Maranescu B., Visa A., Equilibrium and kinetic studies of chromium

- ions adsorption on Co (II)-based phosphonate metal organic frameworks, *Separation Science and Technology*, 2018, 53(7), 1017-1026, DOI10.1080/01496395.2017.1340953, WOS:000424302500002
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 19. 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
 20. 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
 21. Ilia G., Iliescu S., Popa A., Visa A., Maranescu B., Simulescu V., Pekar M., Badea V., Poly(alkylene-H-phosphonate)s obtained by direct esterification and oxidation of hypophosphorous acid with ethylene glycol, *Journal of Macromolecular Science Part A-Pure and Applied Chemistry*, 2016, 53(1), 49-54, DOI10.1080/10601325.2016.1110458, WOS:000367550100008
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 24. Visa A., Maranescu B., Bucur A., Spectroscopic Properties of New Cerium Metal-Organic Framework Based on Phosphonate Ligands with Vinyl Functional Group, *Phosphorus, Sulfur and Silicon and the Related Elements*, 2015, 190(5-6), 959-960, DOI10.1080/10426507.2014.995298, WOS:000357323000070
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D. LUCRĂRI ȘTIINȚIFICE ÎN EXTENSO PUBLICATE ÎN REVISTE DIN STRĂINATATE FĂRĂ FACTOR DE IMPACT

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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).
2. Palade A., Creanga I., Maranescu B., Fagadar-Cosma E., Preliminary studies regarding novel Zn-Metalloporphyrin, *Annals of University of Timisoara, Series of Chemistry*, nr.19(2), 2010, 23-28, (ISSN 1224-9513).
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F. LUCRĂRI ȘTIINȚIFICE ÎN EXTENSO PUBLICATE ÎN VOLUMELE UNOR MANIFESTĂRI ȘTIINȚIFICE INTERNAȚIONALE

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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4. Visa A., Maranescu B., Bucur A., Simulescu V., Design and synthesis of a diphosphonate metal-organic framework, *Proceedings of the 18th Symposium on analytical and environmental problem, Szeged, Hungary, 24 Septembrie, 2012*, 257-260
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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

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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*
14. Visa A., Maranescu B., Lupa L., Changes in structure and properties of phosphonates metal-organic framework by using auxiliary n-donor ligands, *47th Iupac World Chemistry Congress, 7-12 July 2019, Paris, Franta, P0456, 1809*
15. Visa A., Maranescu B., Lupa L., Metal phosphonates as promising corrosion inhibitors for mild steel, *New trends and strategies in the chemistry of advanced materials with relevance in biological systems, technique and environmental protection, 6-7 June 2019, Timisoara, Romania, 19*
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*
17. Maranescu B., Plesu N., Visa A., Metal phosphonates as promising corrosion inhibitors for mild steel, *New trends and strategies in the chemistry of advanced materials with relevance in biological systems, technique and environmental protection, 6-7 June 2019, Timisoara, Romania, 67*
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 frameworks 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) &*

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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 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, 76*
 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*
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 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*
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 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 aqueous 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
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Data: 23.04.2024