Dr. Chim. Bianca Maranescu

LISTA LUCRĂRILOR PUBLICATE

A. DOCTORAT

1. Studii teoretice şi experimentale privind hibrizi organici/anorganici conţinând compuşi element – organici", Conducător Științific: Prof. Dr. Zeno Simon, Membru Corespondent al Academiei Române.

B. LUCRĂRI ŞTIINŢIFICE PUBLICATE ÎN REVISTE CU FACTOR DE IMPACT

1. Plesu N., Macarie L., Mihali M., **Maranescu B.,** Visa A., Jurcau D., Polyester-based Coatings with Metal Organic Framework: An Experime Study For Corrosion Protection, ***J. Compos. Sci.*, 2023,** 7, 422. https://doi.org/10.3390/jcs7100422 (FI= 3,3 – Q2)

2. **Maranescu B.,** Visa A., Applications of Metal-Organic Frameworks as Drug Delivery Systems, ***Int.J.Mol.Sci***. **2022**, 23,4458. https://doi.org/10.3390/ijms23084458(FI=6.208-Q1)

3. Marganovici M., **Maranescu B.**, Visa A., Lupa L., Hulka I., Chiriac V., Ilia G., Hybrid Coordination Networks for Removal of Pollutants from Wastewater. ***Int. J. Mol. Sci.* 2022**, 23, 12611. https://doi.org/10.3390/ijms232012611 (FI=6.208- Q1)

4. 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, ***Mater. Plast.*, 2022**, 59 (4), 125-134, https://doi.org/10.37358/MP.22.4.5631 (FI= 0.782 – Q4)

5. 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**, 14,7894. https://doi.org/10.3390/ma14247894(FI=3.680- Q1)

6. 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 Trans***, **2021**, 50, 6539-6548, https://dx.doi.org/10.1039/D1DT00104C (FI=4,072- Q1)

7. Visa A., Ilia G., Lupa L., **Maranescu B,** Use of highly stable phosphonate coordination polymers as adsorbents for wastewater, ***Appl. Organomet. Chem***., **2021**, 35(5), e6184, https://doi.org/10.1002/aoc.6184 (FI=4,569- Q1)

8. **Maranescu B.**, Plesu N., Visa A., Phosphonic acid vs phosphonate metal organic framework influence on mild steel corrosion protection, ***Appl. Surf. Sci.*, 2019**, 497, 143734, DOI: 10.1016/j.apsusc (FI= 7.392 - Q1)

9. **Maranescu B.,** Lupa L., Visa A., Heavy metal removal from waste waters by phosphonate metal organic frameworks, ***Pure Appl. Chem***., **2018**, 90(1), 35 - 47, DOI: 10.1515/pac-2017-0307 **(FI= 2,320 – Q3)**

10. Colodrero R.M.P., Cabeza A., Olivera-Pastor P., Choquesillo D., Turner A., Ilia G., **Maranescu B.**, Papathanasiou K.E, Hix G.B, Demadis K.D., Aranda M.A.G, Divalent metal vinylphosphonate layered materials: compositional variability, structural peculiarities, dehydration behavior, and photoluminescent properties, ***Inorg. Chem.***, **2011**, 50, 11202-11211, DOI: 10.1021/ic201760w (FI= 5,436 - Q1)

11. **Maranescu B.,** Lupa L, Visa A., Synthesis, characterization and rare earth elements adsorption properties of phosphonate metal organic frameworks, ***Appl. Surf. Sci.***, **2019**, 481, 83 - 91, DOI: 10.1016/j.apsusc.2019.03.067 (FI= 7.392 - Q1)

12. 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, DOI: 10.3390/nano10050899 (FI= 5,719 - Q1)

13. 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, doi: 10.3390/molecules26010135(FI= 4,927 – Q2)

14. Nistor MA, Muntean SG, **Maranescu B.**, Visa A, Phosphonate metal-organic frameworks used as dye removal materials from wastewaters, ***Appl. Organomet. Chem.***, **2020**, 34(11), -e5939, DOI: 10.1002/aoc.5939 (FI=4,072 - Q1)

15. **Maranescu B.,** Lupa L., Visa A., Synthesis, characterizations and Pb(II) sorption properties of cobalt phosphonate materials, ***Pure Appl. Chem.***, **2016**, 88(10-11), 979 - 992, DOI: 10.1515/pac-2016-0709 **(FI= 2,230 – Q3)**

16. Visa A., Mracec. M., **Maranescu B.,** Maranescu V., Ilia G., Popa A. Mracec, M, Structure simulation into a lamellar supramolecular network and calculation of the metal ions/ligands ratio, ***Chem. Cent. J.*, 2012**, 6, 91, DOI: 10.1186/1752-153X-6-91 (FI= 4,215– Q2)

17. **Maranescu B.**, Lupa L., Mihali MTL., Plesu N., Maranescu V., Visa A., The corrosion inhibitor behavior of iron in saline solution by the action of magnesium carboxyphosphonate, ***Pure Appl. Chem.*, 2018**, 90(11), 1713 - 1722, DOI: 10.1515/pac-2018-0513**(FI= 2,230 – Q3)**

18. **Maranescu B.**, Visa A., Ilia G., Simon Z, Demadis KD, Colodrero RMP, Cabeza A., Vallcorba O., Rius J., Choquesillo-Lazarte D., Synthesis and structural characterization of 2-D layered copper(II) styrylphosphonate coordination polymers, ***J. Coord. Chem.*, 2014**, 67(9), 1562 - 1572, DOI: 10.1080/00958972.2014.928289 **(FI= 1,869- Q3)**

19. 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, ***Rev. Chim.***, **2019**, 70(10), 3473 - 3476, **(FI= 1.755 – Q3)**

20. Fagadar-Cosma E., Creanga I., **Maranescu B.**, Palade A., Lorinnczi A., Fagadar- Cosma G., Popescu M., Dependence of optical response on pH of a water- soluble Zn(II) Metalloporphyrin, ***Dig. J. of Nanomater. Bios.*, 2011**, 6(1), 75-804, (ISSN:1842-3582) **(FI= 0,899 – Q4)**

21. Petric M., Crisan L., Crisan M., Micle A., **Maranescu B**., Ilia G., Synthesis and QSRR Study for a Series of Phosphoramidic Acid Derivatives, ***Heteroatom Chemistry***, **2013**, 24(2), 138-145, (ISSN: 1042-7163) **(FI= 1,48 – Q3)**

22. Lupa L., **Maranescu B**., Visa A., Equilibrium and kinetic studies of chromium ions adsorption on Co (II)-based phosphonate metal organic frameworks, *Sep.* ***Sci. Technol.,*** **2018**, 53(7), 1017 - 1026, DOI: 10.1080/01496395.2017.1340953 **(FI= 2,799 – Q2)**

23. **Maranescu B.,** Popa A., Lupa L., Maranescu V., Visa A., Use of chitosan complex with aminophosphonic groups and cobalt for the removal of Sr^{2+} ions, ***Sep. Sci. Technol.,*** **2018**, 53(7), 1058 - 1064, DOI: 10.1080/01496395.2017.1304961 **(FI= 2,799 – Q2)**

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26. Visa A., **Maranescu B.**, Bucur A., Spectroscopic Properties of New Cerium Metal-Organic Framework Based on Phosphonate Ligands with Vinyl Functional Group, ***Phosphorus Sulfur Silicon Relat. Elem.,*** **2015**, 190(5-6), 959 - 960, DOI: 10.1080/10426507.2014.995298 **(FI = 1,052 – Q3)**

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28. Iliescu S., Plesu N., Macarie L., Popa A., Visa A., **Maranescu B.**, Ilia G., Polymeric membranes containing phosphorus in the chain for solid polymer electrolytes, ***Phosphorus Sulfur Silicon Relat. Elem.,*** **2014**, 189(7-8), 992 - 1003, DOI: 10.1080/10426507.2014.905568 **(FI= 1,052 – Q3)**

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32. Popa A., Ilia G., Iliescu S., Pascariu A., **Maranescu B**., Wittig Horner reactions on styrene-divinylbenzene type supports during the catalysis by interphase transfer. 2 The utilization of functionalized phosphonates, ***Mater. Plast.***, **2005**, 42(3), 226 - 228 **(Q4)**

33. Popa A., Ilia G., Davidescu C.M., Iliescu S., Macarie L., **Maranescu B.,** Reactii Wittig ale sarurilor cuaternare de fosfoniu cu liganzi macromoleculari functionalizati cu grupari aldehidice, ***Mater. Plast.***, **2006,** 43(1), 62-64 **(Q4)**

34. Visa A., **Maranescu B.,** Mracec M., Electronic properties of Cu^{2+} vinylphosphonate estimated by PM_3 semiempirical method, ***Rev. Roum. Chim***., **2014**, 59(3-4), 185 - 191 **(Q4)**

35. **Maranescu B.,** Ilia G., Cozmiuc C., Glevitzky M., Synthesis and mathematic models of the HPLC behavior of phosphoramidic derivatives, ***Rev. Chim.- Buc.,* 2006**, 57(10), 1470-1474 **(Q3)**

36. Moldovan R., Muntean S., Simu G., **Maranescu B.**, Pascariu A., Methods for the characterization of arylazophosphonates, Rev. Chim., **2006**, 57(3), 281 - 284 **(Q3)**

37. Fagadar-Cosma E., **Maranescu B**., Enache C., Savii C., Fagadar-Cosma G., Alternative pentru obţinerea 5,10,15,20-Tetrakis(4-hidroxifenil)-21H,23H porfina. Caracterizare fizico-chimică, ***Rev. Chim. -Buc.,* 2006,** 57(11), 1144-1147 **(Q3)**

38. Cozmiuc C., Rojancovschi V., **Maranescu B**., Ilia G., Compusi ai hexaclorciclotrifosfazenei utilizaţi ca biostimulatori, ***Rev. Chim.-Buc.,* 2005,** 56(5), 564-565 **(Q3)**

39. Fagadar-Cosma E., **Maranescu B.**. Fagadar-Cosma G., Cozmiuc C., Iodotripheylphosphonium triiodide IR, ^{1}H-NMR, ^{31}P-NMR, UV-VIS spectroscopy and HPLC investigations, ***Rev. Chim.-Buc.,* 2005**, 56(9), 947-950 **(Q3)**

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41. **Maranescu B**., Szabadai Z., Cozmiuc C., Ilia G., Studiul fototransformării 1,4-dihidro-2,6-dimetil-4-(2-nitrofenil)-3,5-piridincarboxilatululde metil, ***Rev. Chim.- Buc.,* 2005**, 56(6), 663-666 **(Q3)**

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

1. Szabadai Z.**, Maranescu B.**, Dragos D., Investigations on the Photo-Transformation of Retinol Acetate, *The Open Chemical and Biomedical Methods Journal*, 2, **2009**, 111-116

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).

2. Palade A., Creanga I, **Maranescu B**., Fagadar-Cosma E., Preliminary studies regarding novel Zn-Metalloporfhyrin, ***Annals of University of Timisoara, Series of Chemistry***, nr.19(2), **2010**, 23-28, (ISSN 1224-9513).

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

3. **Maranescu B.**, Visa A., Ilia G., Precursor for phosphonate metal organic framework with fascinating structure, ***Proceedings of the 18th Symposium on analytical and environmental problems, Szeged, Hungary, 24 Septembrie***, **2012**, 227-230

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

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

7. Vişa A., **Maranescu B**., A. Popa, G. Ilia, Unsaturated phosphonic acid, a novel precursor to fabricate metal organic frameworks, ***Proceedings of the 17th Symposium on analytical and environmental problems, Szeged*****, Hungary, 19 September, 2011**, p. 323-326

8. Glevitzky M., Brusturean G. A., Perju D., **Maranescu B.**, Heghedus G., Experimental modelling of thigness pet bottles influence on the qualities of soft drinks, ***microCAD 2006 International Scientific Conference 16-17 March, 2006, Miskolc, Hungary***, 33-39

9. Pascariu A., **Maranescu B**.: Ethyl-bis(3-furyl)-phenylphosphoniu iodine as precursor of Witting reaction. Sinthesys and characterization. ***Proceeding of the VIIIth International Symposium „Young People and Multidisciplinary Research'' 11-12 Mai 2006,Timisoara, Romania***, 603-608

10. **Maranescu B**., Petric Mihaela, Palade Anca, Creanga Ionela, Simon Zeno, HPLC behavior of a new series of organophosphorus compound, ***New trends and strategies in the chemistry of advanced materials*****, 4-5 nov. Timisoara, 2010,** 155-158

11. Creanga I., Armeanu I., **Maranescu B**., Făgădar-Cosma E.: The effect of conditions on manganese (III) metalloporphrin stability, ***New trends and strategies in the chemistry of advanced materials, 5-6 nov., Timişoara, 2009,*** 111-113

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*** *O-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

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 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 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***

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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

36. Visa A., **Maranescu B.**, Lupa L., Bucur B., Phosphonate metal organic frameworks: from synthesis to applications, ***Proceedings of the 9th Symposium New Trends and Strategies in the Chemistry of Advanced Materials, 9-10 iunie 2016, Timisoara, Romania,*** 19

37. **Maranescu B.,** Lupa L., Bucur A., Visa A., Hydrothermal synthesis of metal organic framework based on carboxyphosphonate ligand, Proceedings of the ***9th Symposium New Trends and Strategies in the Chemistry of Advanced Materials, 9-10 iunie 2016, Timisoara, Romania***, 92

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53. Visa A., **Maranescu B**, Mircea M., Structural properties analyses of phosphonate metal organic framework, ***44th IUPAC World Chemistry Congress, 11-16 August 2013, Istanbul, Turcia***, 1513

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F. LUCRĂRI ŞTIINŢIFICE ÎN REZUMAT PUBLICATE LA MANIFESTĂRI ŞTIINŢIFICE NAŢIONALE

1. Plesu N., **Maranescu B.**, Macarie L., Visa A., Anticorrosive effect of phosphonate metal organic frameworks on mild steel, ***A XXXVI-a Conferinta nationala de chimie – CNChim, Octombrie 5-7, 2022, Calimanesti – Caciulata, Romania, CS.C-2,*** 34

2. Visa A., **Maranescu B.**, Popa A., Lupa L., Metal organic frameworks: from green synthesis tgreen applications, ***A XXXVI-a Conferinta nationala de chimie – CNChim, Octombrie 5-7, 2022, Calimanesti – Caciulata, Romania,*** C.S. V-8

3. Ghit S., **Maranscu B**., Lupa L., Visa A., Utilizarea rețelelor metal organice fosfonice în tratarea apelor prin adsorbție, ***Simpozion on-line AquaSensTim, 22 Martie 2021, Timișoara, Romania***

4. **Maranescu B.,** Visa A., Simulescu V., Synthesis And Characterization Of New Unsaturated Layered Metal Phosphonates, ***Proceedings of the 13th Timisoara`s Academic Days, 13-14 Iunie, 2013, Timisoara, Romania***, 55

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10. Grad M., Szabadai Z., Simu G., **Maranescu B**., Lupea X., Colour analysis of chromogens derivatives of 4,4-diaminostilbene-2,2-disulphonic acid, ***Lucrările Simpozionului Zilele Academic Timişene, ediţia a XI a, 28-29 Mai, 2009***, 35

11. **Maranescu B.,** Maranescu V., Super-termoconductives polymers in heat sink and package manufacturing – modeling to improve cooling techniques design and simulation precision, ***Lucrările Simpozionului Zilele Academice Timişene, ediţia a X a, 24-25 mai, 2007,*** 35

12. Szabadai Z., **Maranescu B.**, Fotodegradarea acetatului de retinil in regim de curgere continuă, ***A XXVIII-a Conferinta Naţională de Chimie, Călimăneşti-Căciulata, Vâlcea,* 4-6 octombrie, 2006**,108

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15. Fuliaş A., Fagadar-Cosma E., Vlascici D., **Maranescu B**., Cozmiuc C., Studiul comparativ al obţinerii şi caracteristicilor HPLC, UV-vis şi IR ale complecşilor de tip monomer şi dimer ai meso- tetrafenilporfirinei cu Zr(IV), ***Lucrările Simpozionului Zilele Academice Timişene, ediţia a IX a, Timişoara, 26-27 mai 2005***

16. **Maranescu B.,** Szabadai Z., Cozmiuc C., Ilia G., Crisan L., HPLC separation of phosporamidic acid derivatives. Corerrelation of structure with separation parameters, ***Lucrările Simpozionului Zilele Academice Timişene, ediţia a IX a, Timişoara, 26-27 mai 2005***

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G. CAPITOLE CARTE:

1. **B. Maranescu,** A. Visa
Metal-Organic Framework Composites IPMC Sensors and Actuators, Inamuddin and A. M. Asiri (eds.), Ionic Polymer Metal Composites for Sensors and Actuators, Engineering Materials, ***Springer Publisher, 2019***, 1-19, https://doi.org/10.1007/978-3-030-13728-1_1-
Prezențe în **195** de librării

2. Visa A., **Maranescu B.**, Ilia G., Hypophosphorous Acid and Its Salts as Reagents in Organophosphorus Chemistry, in Chemistry Beyond Chlorine, Editors: Tundo, P., He, L.-N., Lokteva, E., Mota, C. (Eds.), ***Springer Publisher, 2016,*** 137-168, ISBN 978-3-319-30073-3, Prezențe în **248** de librării

H. GRANTURI

1. Contract **MATNANTECH**
Denumirea proiectului: *Materiale hibride obţinute prin grefarea complecsilor metalici pe suporţi functionalizaţi şi aplicaţiile lor în oxidari biomimetice.*
-membru în echipa de cercetare
Durata contractului: 2006-2008

2. Contract **MATNANTECH**
Denumirea proiectului: *Hibrizi organici-anorganici cu proprietăţi speciale pe bază de compuşi organofosforici.*
- membru în echipa de cercetare
Durata contractului: 2006-2008

3. Grant **CNCSIS tip A**
Denumirea proiectului: *Chimia, evaluarea proprietăţilor de degradabilitate şi inflamabilitate a poli(fosfoesterilor) şi utilizarea lor în formulare de materiale bioactive.*
-membru în echipa de cercetare
Durata contractului: 2007-2008

4. Grant **PN-II-RU-TE-2011-3-92**
Denumirea proiectului: *Reţele metal organice fosfonice: complexitatea şi diversitatea structurilor şi a aplicaţiilor.*
-membru în echipa de cercetare
Durata contractului: 2011-2014

5. Grant **PN-II-RU-TE-2014-4-1398**
Denumirea proiectului: *Influenta proprietatilor fizico-chimice si structurale asupra activitatii catalitice a retelelor metal organice fosfonice cu impact asupra mediului.*
-membru în echipa de cercetare
Durata contractului: 2014-2018

6 .Grant **PN-III-P1-1.1-TE-2016-2008**
Denumirea proiectului: *Indepartarea Poluantilor din Apele Reziduale cu Ajutorul Retelelor Metal Organice Conventionale si Neconventionale Fosfonice.*
- membru în echipa de cercetare
Durata contractului: 2018-2020

7. Grant **PN-III-P4-PCE-2021-0089**
Denumirea proiectului: *Retele metal organice de la sinteza verde la aplicatii prietenoase cu mediul inconjurator.*
- membru în echipa de cercetare
Durata contractului: 2022-2024

I. PREMII INTERNAȚIONALE

1. **Medalia de aur** pentru proiect inovativ - oferita de EUROINVENT - European Exhibition of Creativity and Innovation, Acid and Phosphonate Metal Organic Framework as Cheap, Safe and Easy to Handle with Potentially Retarded Corrosion Inhibiting Effect, Iasi, **2019,** Romania

2. **Medalia de argint** pentru proiect inovativ - oferita de EUROINVENT - European Exhibition of Creativity and Innovation, Phosphonate Metal Organic Frameworks as Heterogeneous Catalyst in Sustainable Green Solvent Iasi, **2019,** Romania

3. **Medalia de bronz** pentru proiect inovativ - oferita de EUROINVENT - European Exhibition of Creativity and Innovation, Rare Earth Elements Removal from Aqueous Solutions by Phosphonates Metal Organic Frameworks - Iasi, **2019**, Romania

4. **Premiu oferit de editura RSC**, jurnalul Physical Chemical Chemical Physics, Ni – vinyl phosphonate electrical properties, 44th IUPAC World Chemistry Congress, Istanbul, 11-16 August, **2013**, **Turcia,** (http://www.iupac2013.org/pccp.asp)

J. BURSE

1.Bursă în Asia „Travel award to chemists from under-represented countries" – oferită de IUPAC și Korean Chemical Society pentru participarea la "45th IUPAC World Chemistry Congress", desfășurat în Busan, August, Coreea de Sud, 2015, http://www.iupac2015.org/main/fs_urc.htm

2.Bursă Swiss National Science Foundation – Școală de vară - Complexing Agents between Science, Industry, Authorities and Users, March, Monte Verità Ascona, Switzerland, 2007

3.Bursă NATO – Școală de vară - New Organic Reactions and Methodologies for Green Production, Lecce, October- November 2006, Italy https://link.springer.com/content/pdf/bfm%3A978-1-4020-8457-7%2F1.pdf

K. CERCETATOR INVITAT LA UNIVERSITĂȚI DIN STRĂINĂTATE

1.Universitatea Malaga, Spania, Departamentul de Chimie Anorganica, Cristalografie si Mineralogie, in cadrul grupului condus de Prof. Pedro J. Maireles Torres, iunie, **2018**.

2.**Universitatea Nova din Lisabona, Portugalia,** Facultatea de Stiinte si Tehnologie, in cadrul grupului condus de Prof. Dr. Eurico José da Silva Cabrita, septembrie, **2014.**

3.Universitatea din Leipzig, Germania, Institutul de Chimie Analitica in cadrul grupului condus de Prof. Dr. Stefan Berger (http://www.uni-leipzig.de/~nmr/STB), mai **2012**.

4.**University of Crete, Heraklion,** Laboratory Crystal Engineering, Growth&Desing Lab, in cadrul grupului condus de Prof. Dr. Kostas Demadis (http://www.chemistry.uoc.gr/demadis/home.html), iulie **2012**

5.**Universitatea Ca`Foscari, Venetia**, **Italia** in cadrul grupului condus de Prof. Dr. Pietro Tundo (http://www.unive.it/nqcontent.cfm?a_id=86656&pid=5591778), noiembrie **2013** ((pdf) - **visiting fellow**)