**لیستی از مقاله های منتخب گروه تحقیقاتی دکتر میرزائی:**

1. M.H. Alizadeh, K.T. Holman, **M. Mirzaei**, H. Razavi, Triprolinium 12-phosphomolybdate: Synthesis, crystal structure and properties of [C5H10NO2]3[PMo12O40]∙4.5H2O, Polyhedron, 25 (2006) 1567.
2. M.H. Alizadeh, **M. Mirzaei**, H. Razavi, 2D-network of inorganic-organic hybrid material built on Keggin type polyoxometallate and amino acid: [L-C2H6NO2]3[(PO4) Mo12O36]∙5H2O, Mater. Res. Bull., 43 (2008) 546.
3. X.D. Yang, Y.-G. Chen, **M. Mirzaei**, A.R. Salimi, F. Yao, Synthesis, structure and analysis of intermolecular interactions of organic-inorganic hybrid compound based on Anderson-type polyoxometalates and piperazine, Inorg. Chem. Commun., 12 (2009) 195.
4. M.H. Alizadeh, **M. Mirzaei**, A.R. Salimi, H. Razavi, Synthesis, molecular structure, and characterization of a new 3D-layered inorganic-organic hybrid material: [D/L-C6H13O2N-H]3[(PO4)W12O36]∙4.5H2O, Mater. Res. Bull., 44 (2009) 1515.
5. M. Nikpour, **M. Mirzaei**, Y.-G. Chen, A. Aghaei Kaju, M. Bakavoli, Contribution of intermolecular interactions to constructing supramolecular architecture: Synthesis, structure and Hirshfeld surface analysis of a new hybrid of polyoxomolybdate and ((1*H*-tetrazole-5-yl) methyl) morpholine, Inorg. Chem. Commun., 12 (2009) 879.
6. M. Nikpour, H. Eshtiagh-Hosseini, **M. Mirzaei**, A. Aghaei Kaju, Y.-G. Chen, S. Zarinabadi, An ionic 2D inorganic-organic hybrid of tris[((1H-tetrazole-5-yl)methyl) morpholine] dodecatungstophosphate(V) pentahydrate: Synthesis X-ray crystal structure, and spectroscopic characterizations, Chin. Chem. Lett., 21 (2010) 501.
7. H. Aghabozorg, E. Motieiyan, A.R. Salimi, **M. Mirzaei**, F. Manteghi, A. Shokrollahi, S. Derki, M. Ghadermazi, S. Sheshmani, H. Eshtiagh-Hosseini, Piperazinediium, Zr(IV) and Ce(IV) pyridine-2,6-dicarboxylates: Syntheses, characterizations, crystal structures, *ab initio* HF, DFT calculations and solution studies, Polyhedron, 29 (2010) 1453.
8. H. Eshtiagh-Hosseini, H. Aghabozorg, **M. Mirzaei**, S.A. Beyramabadi, H. Eshghi, A. Morsali, A. Shokrollahi, R. Aghaei, Hydrothermal synthesis, experimental and theoretical characterization of a novel cocrystal compound in the 2:1 stoichiometric ratio containing 6-methyluracil and dipicolinic acid, Spectrochim. Acta, 78 (2011) 1392.
9. **M. Mirzaei**, H. Eshtiagh-Hosseini, V. Lippolis, H. Aghabozorg, D. Kordestani, A. Shokrollahi, R. Aghaei, A.J. Blake, Structural variation within uraniumVI heterocyclic carboxylates: Solid and solution states studies, Inorg. Chim. Acta, 370 (2011) 141.
10. F. Yao, Y.-G. Chen, A.R. Salimi, **M. Mirzaei**, Self-Assembly, Crystal Structure and Analysis of Intermolecular Interactions of the Supramolecular Compound Based on Hexamolybdochromate(III), Sulfate and Piperazine, J. Clust. Sci., 22 (2011) 309.
11. H. Eshtiagh-Hosseini, **M. Mirzaei**, Two Novel Chiral Inorganic-Organic Hybrid Materials Containing Preyssler and Wells–Dawson Heteropolyoxometallates with Valine (val), Glycine (gly), and Proline (pro) Amino acids: (Hval)2(Hgly)(H3O)6K5[Na(H2O)P5W30O110]∙19.5H2O and (Hpro)6[P2W18O62]∙8H2O, J. Clust. Sci., 23 (2012) 345.
12. **M. Mirzaei**, H. Eshtiagh-Hosseini, A. Hassanpoor, T. Szymańska-Buzar, J.T. Mague, M. Korabik, A. Kochel, Two new CuII 1D-coordination polymers containing 1,4-pyrazine-2,3-dicarboxylic acid, 2-aminopyridine, and 5-bromo-6-methyl-2-(4-methylpiperazine-1-yl)pyrimidine-4-amine: X-ray crystal structure, spectroscopic and magnetic studies, Inorg. Chim. Acta, 391 (2012) 232.
13. **M. Mirzaei**, H. Eshtiagh-Hosseini, M. Chahkandi, N. Alfi, A. Shokrollahi, N. Shokrollahi, A. Janiak, Comprehensive studies of non-covalent interactions within four new Cu(II) supramolecules, CrystEngComm, 14 (2012) 8468.
14. **M. Mirzaei**,H. Eshtiagh-Hosseini, M. Mohammadi Abadeh, M. Chahkandi,A. Frontera, A. Hassanpoor, Influence of accompanying anions on supramolecular assembly and coordination geometry in HgII complexes with 8-aminoquinoline: Experimental and theoretical studies, CrystEngComm, 15 (2013) 1404.
15. V. Jodaian, **M. Mirzaei**, M. Arca, M.C. Aragoni, V. Lippolis, E. Tavakoli, N. Samadani Langeroodi, First example of a 1:1 vanadium(IV)-citrate complex featuring the 2,2'-bipyridine co-ligand: Synthesis, X-ray crystal structure and DFT calculations, Inorg. Chim. Acta, 400 (2013) 107.
16. H. Eshtiagh-Hosseini, M. Chahkandi, M.R. Housaindokht, **M. Mirzaei**, Bromide oxidation mechanism by vanadium bromoperoxidase functional models with new tripodal amine ligands: A comprehensive theoretical calculations study, Polyhedron, 60 (2013) 93.
17. H. Eshtiagh-Hosseini, **M. Mirzaei**, M. Biabani, V. Lippolis, M. Chahkandi, C. Bazzicalupi, Insight into the connecting roles of interaction synthons and water clusters within different transition metal coordination compounds of pyridine-2,5-dicarboxylic acid: experimental and theoretical studies, CrystEngComm, 15 (2013) 6752.
18. S.H. Kazemi, H. Eshtiagh-Hosseini, M. Izadyar, **M. Mirzaei**, Computational study of the intramolecular proton transfer between 6-hydroxypicolinic acid tautomeric forms and intermolecular hydrogen bonding in their dimers, Phys. Chem. Res., 1 (2013) 117.
19. **M. Mirzaei**, H. Eshtiagh-Hosseini, N. Lotfian, A.R. Salimi, A. Bauzá, R. Van Deun, R. Decadt, M. Barceló-Oliver, A. Frontera, Syntheses, structures, properties and DFT study of hybrid inorganic-organic architectures constructed from trinuclear lanthanide frameworks and Keggin-type polyoxometalates, [Dalton Trans.](http://pubs.rsc.org/en/journals/journal/dt), 43 (2014) 1906.
20. H. Eshtiagh-Hosseini, **M. Mirzaei**,S. Zarghami, A. Bauzá, A. Frontera, J.T. Mague, M. Habibi, M. Shamsipur, Crystal engineering with coordination compounds of 2,6-dicarboxy-4-hydroxypyridine and 9-aminoacridine fragments driven by different nature of the face-to-face π∙∙∙π stacking, CrystEngComm, 16 (2014) 1359.
21. **M. Mirzaei**, H. Eshtiagh-Hosseini, M. Alipour, A. Frontera, Recent developments in the crystal engineering of diverse coordination modes (0-12) for Keggin-type polyoxometalates in hybrid inorganic-organic architectures, Coord. Chem. Rev., 275 (2014) 1.
22. **M. Mirzaei**, V. Lippolis, M.C. Aragoni, M. Ghanbari, M. Shamsipur, F. Meyer, S. Demeshko, S.M. Pourmortazavi, [Extended structures in copper(II) complexes with 4-hydroxypyridine-2,6-dicarboxylate and pyrimidine derivative ligands: X-ray crystal structure, solution and magnetic studies](http://www.sciencedirect.com/science/article/pii/S0020169314002321), Inorg. Chim. Acta, 418 (2014) 126.
23. **M. Mirzaei**, H. Eshtiagh-Hosseini, Z. Karrabi, K. Molčanov, E. Eydizadeh, J.T. Mague, A. Bauzá and A. Frontera, Crystal engineering with coordination compounds of NiII, CoII, and CrIII bearing dipicolinic acid driven by different nature of noncovalent interactions, CrystEngComm, 16 (2014) 5352.
24. **M. Mirzaei**, H. Eshtiagh-Hosseini, A. Bauzá, S. Zarghami, P. Ballester, J.T. Mague and A. Frontera, On the importance of non covalent interactions in the structure of coordination Cu(II) and Co(II) complexes of pyrazine- and pyridine-dicarboxylic acid derivatives: Experimental and theoretical views, CrystEngComm, 16 (2014) 6149.
25. [I. Khosravi](http://www.sciencedirect.com/science/article/pii/S0277538714004367), [**M. Mirzaei**](http://www.sciencedirect.com/science/article/pii/S0277538714004367), [A. Bauzá](http://www.sciencedirect.com/science/article/pii/S0277538714004367), [A. Frontera](http://www.sciencedirect.com/science/article/pii/S0277538714004367), [M. Eftekhar](http://www.sciencedirect.com/science/article/pii/S0277538714004367), A new oxo centered basic *p*-chlorobenzoate bridging heterotrinuclear complex, [Cr2MnO(C7H4O2Cl)6(Py)3]C7H5O2Cl: Synthesis, X-ray crystal structure and theoretical DFT study, Polyhedron, 81 (2014) 349.
26. N. Lotfian, **M. Mirzaei**, H. Eshtiagh-Hosseini, M. Loffler, M. Korabik, A. Salimi, Two New Supramolecular Hybrids Inorganic-Organic of 12-Silicotungstic acid heteropolyoxometalate and trinuclear lanthanide clusters: Syntheses, structures, and magnetic properties, Eur. J. Inorg. Chem., 2014 (2014) 5908.
27. A. Doulah, H. Eshtiagh-Hosseini, **M. Mirzaei**, M. Nikpour, A. Fazlara, A.R. Salimi, Investigation of regioselectivity on the reaction of 5-bromo-2,4-dichloro-6-methylpyrimidine with ammonia, Arab. J. Chem., 7 (2014) 1000.
28. **M. Mirzaei**, A. Hassanpoor, A. Bauzá, J.T. Mague, A. Frontera, A new solvated complex of the uranyl ion (UO22+) with 8-hydroxyquinoline, Inorg. Chim. Acta, 426 (2015) 136.
29. H. Eshghi, A. Javid, A. Khojastehnezhad, F. Moeinpour, F.F. Bamoharram, M. Bakavoli, **M. Mirzaei**, Preyssler heteropolyacid supported on silica coated NiFe2O4 nanoparticles for the catalytic synthesis of bis(dihydropyrimidinone) benzene and 3,4-dihydropyrimidin-2(1*H*)-ones, Chin. J. Catal., 36 (2015) 299.
30. **M. Mirzaei**, H. Eshtiagh-Hosseini, Z. Bolouri, Z. Rahmati, A. Esmaeilzadeh, A. Hassanpoor, A. Bauzá, P. Ballester, M. Barcelo-Oliver, J.T. Mague, B. Notash, A. Frontera, Rationalization of noncovalent interactions within six new MII/8-aminoquinoline supramolecular complexes (MII = Mn, Cu, and Cd): A combined experimental and theoretical DFT study, Cryst. Growth Des., 15 (2015) 1351.
31. [**M. Mirzaei**](http://pubs.rsc.org/en/results?searchtext=Author%3AMasoud%20Mirzaei), [H. Eshtiagh-Hosseini](http://pubs.rsc.org/en/results?searchtext=Author%3AHossein%20Eshtiagh-Hosseini), [M. Alipour](http://pubs.rsc.org/en/results?searchtext=Author%3AMahboubeh%20Alipour), [A. Bauz](http://pubs.rsc.org/en/results?searchtext=Author%3AAntonio%20Bauza)á, [J.T. Mague](http://pubs.rsc.org/en/results?searchtext=Author%3AJoel%20T%20Mague), [M. Korabik](http://pubs.rsc.org/en/results?searchtext=Author%3AMaria%20Korabik) and [A. Frontera](http://pubs.rsc.org/en/results?searchtext=Author%3AAntonio%20Frontera), Hydrothermal synthesis, X–ray structure and DFT and magnetic studies of a novel (H2SiW12O40)2– based one–dimensional linear coordination polymer *via* in situ transformation of pyridine-2,3-dicarboxylic acid into nicotinic and 2-hydroxynicotinic acids, [Dalton Trans.](http://pubs.rsc.org/en/journals/journal/dt), 44 (2015) 8824.
32. **M. Mirzaei**, H. Eshtiagh-Hosseini, M. Bazargan, F. Mehrzad, M.Shahbazi, A. Bauzá, J.T. Mague, A. Frontera, Two new copper and nickel complexes of pyridine-2,6-dicarboxylic acid *N*-oxide and their proton transferred salts: Solid state and DFT insights, Inorg. Chim. Acta, 438 (2015) 135.
33. **M. Mirzaei**, M. Nikpour, A. Bauzá, A. Frontera, On the Importance of C-H/π and C-H...H-C Interactions in the Solid State Structure of 15-Lipoxygenase Inhibitors Based on Eugenol Derivatives, ChemPhysChem, 16 (2015) 226.
34. **M. Mirzaei**, H. Eshtiagh-Hosseini, M. Shamsipur, M. Saeedi, M. Ardalani, A. Bauzá, Joel T. Mague, A. Frontera, M. Habibi, Importance of polarization assisted/resonance assisted hydrogen bonding interactions and unconventional interactions incrystal formations of five new complexes bearing chelidamic acid through a proton transfer mechanism, RSC Adv., 5 (2015) 72923.
35. S. Taleghani, **M. Mirzaei**, H. Eshtiagh-Hosseini, A. Frontera, Tuning the topology of hybrid inorganic-organic materials based on the study of flexible ligands and negative charge of polyoxometalates: A crystal engineering perspective, Coord. Chem. Rev., 309 (2016) 84.
36. M. Bazargan, **M. Mirzaei**, H. Eshtiagh-Hosseini, J.T. Magu, A. Bauzá, A. Frontera, Synthesis, X-ray Characterization and DFT study of a Novel Fe(III)-Pyridine-2,6-Dicarboxylic Acid *N*-oxide Complex with Unusual Coordination Mode., Inorg. Chim. Acta, 449 (2016) 44.
37. A. Najafi, **M. Mirzaei**, J.T. Mague, Structural scope of six new layered to pillar-layered hybrid inorganic-organic networks bearing [BW12O40]5- and lanthanoid-cluster; data base study toward ligand role in assemblies, CrystEngComm, 18 (2016) 6724.
38. M. Alipour, O. Akintola, A. Buchholz, **M. Mirzaei**, H. Eshtiagh-Hosseini, H. Gorls, W. Plass, Size-Dependent Self-Assembly of Lanthanide-Based Coordination Frameworks with Phenanthroline-2,9-dicarboxylic Acid as a Preorganized Ligand in Hybrid Materials, Eur. J. Inorg. Chem., 2016 (2016) 5356.
39. M. Shahbazi, F. Mehrzad, **M. Mirzaei**, H. Eshtiagh-Hosseini, J.T. Mague, M. Ardalani,M. Shamsipur, Synthesis, single crystal X-ray characterization, and solution studies of four new Zn(II)-, Cu(II)-, Ag(I)-, and Ni(II)-pyridine-2,6-dipicolinate *N*-oxide complexes with different topologies and coordination modes, Inorg. Chim. Acta, 458 (2017) 84.
40. M. Arefian, [**M. Mirzaei**](http://www.sciencedirect.com/science/article/pii/S0277538714004367), H. Eshtiagh-Hosseini, A. Frontera, A survey of different roles of polyoxometalates in their interaction with amino acids, peptides and proteins, [Dalton Trans.](http://pubs.rsc.org/en/journals/journal/dt), 46 (2017) 6812.
41. A. Najafi,**M. Mirzaei**, A. Bauzá, J.T. Mague, A. Frontera, The roles of H-bonding, π-π stacking, and antiparallel CO···CO interactions in the formation of a new Gd(III) coordination polymer based on pyridine-2,6-dicarboxylic acid, Inorg. Chem. Commun., 83 (2017) 24.
42. Z. Rahmati, **M. Mirzaei**, M. Chahkandi, J.T. Mague, [Accurate DFT studies on crystalline network formation of a new Co(II) complex bearing 8-aminoquinoline](https://www.sciencedirect.com/science/article/pii/S0020169317313282), Inorg. Chim. Acta, 473 (2018) 152.
43. A. Hassanpoor, [**M. Mirzaei**](http://www.sciencedirect.com/science/article/pii/S0277538714004367), H. Eshtiagh-Hosseini, A. Majcher, Constructing two 1D–coordination polymers and one mononuclear complex by pyrazine- and pyridinedicarboxylic acids under mild and sonochemical conditions: Magnetic and CSD studies, CrystEngComm, 20 (2018) 3711.
44. M. Arab Fashapooyeh, **M. Mirzaei**, H. Eshtiagh-Hosseini, A. Rajagopal, M. Lechner, R. Liu, C. Streb, Photochemical and electrochemical hydrogen evolution reactivity of lanthanide-functionalized polyoxotungstates, Chem. Commun., 54 (2018) 10427.
45. A. Hassanpoor, **M. Mirzaei**, M. Niknam Shahrak, A. Majcher, Developing a magnetic metal organic framework of copper bearing a mixed azido/butane-1,4-dicarboxylate bridge: Magnetic and gas adsorption properties, Dalton Trans., 47 (2018) 13849.
46. M. M. Heravi,**M. Mirzaei**,S. Y. Shirazi Beheshtiha,V .Zadsirjan, F. Mashayekh Ameli, M. Bazargan, H5BW12O40 as a Green and Efficient Homogeneous but Recyclable Catalyst in the Synthesis of 4H-Pyrans via Multicomponent Reaction, Appl. Organomet. Chem., 32 [(2018) e4479](https://doi.org/10.1002/aoc.4479).
47. **M. Mirzaei**, H. Eshtiagh-Hosseini, A. Hassanpoor, Different behavior of PDA as a preorganized ligand versus PCA ligand in constructing two inorganic-organic hybrid materials based on Keggin-type polyoxometalate, Inorg. Chim. Acta, 484 (2019) 332.
48. B. Ramezanpour⁠, **M. Mirzaei**⁠, V. Jodaian⁠, M. Niknam Shahrak⁠, A. Frontera⁠, E. Molins, Seven and eight-coordinate Fe(III) complexes containing pre-organized ligand 1,10-phenanthroline-2,9-dicarboxylic acid: Solvent effects, supramolecular interactions and DFT calculations, Inorg. Chim. Acta, 484 (2019) 264.
49. V. Jodayan, **M. Mirzaei**, Ce-promoted Na2WO4/TiO2 catalysts for the oxidative coupling of methane, Inorg. Chem. Commun., 100 (2019) 97.
50. N. Lotfian, M. M. Heravi, **M. Mirzaei**, B. Heidari, Applications of inorganic‐organic hybrid architectures based on polyoxometalates in catalyzed and photocatalyzed chemical transformations, Appl. Organomet. Chem., 33(4) (2019) e4808.
51. M J. Namvar, M H. Abbaspour-Fard, M. Rezaee Roknabadi, A. Behjat, **M. Mirzaei**, Enhancement of perovskite solar cells characteristics by incorporating mixed sodium/cesium cations, Optik, 185 (2019) 1019.
52. [M. Bazargan](https://pubs.rsc.org/en/results?searchtext=Author%3AMaryam%20Bazargan), [**M. Mirzaei**](https://pubs.rsc.org/en/results?searchtext=Author%3AMasoud%20Mirzaei), [A. Franconetti](https://pubs.rsc.org/en/results?searchtext=Author%3AAntonio%20Franconetti), [A. Frontera](https://pubs.rsc.org/en/results?searchtext=Author%3AAntonio%20Frontera), On the preferences of five-membered chelate rings in coordination chemistry: insights from the Cambridge Structural Database and theoretical calculations, Dalton Trans., 48 (2019) 5476.
53. M. Tamimi, M. M. Heravi, **M. Mirzaei**, V. Zadsirjan, N. Lotfian, H. Eshtiagh‐Hosseini, Ag3[PMo12O40]: An efficient and green catalyst for the synthesis of highly functionalized pyran‐annulated heterocycles via multicomponent reaction, Appl. Organomet. Chem., 33 (2019) e5043.
54. M. Daraie, M. M. Heravi, **M. Mirzaei**, N. Lotfian, Synthesis of pyrazolo‐[4́,3́:5,6]pyrido[2,3‐d]pyrimidinediones catalyzed by a nano‐sized surface‐grafted neodymium complex of the tungstosilicate via multicomponent reaction, Appl. Organomet. Chem., 33 (2019) e5058.
55. Z. Hosseini-Hashemi, **M. Mirzaei**, A. Jafari, P. Hosseinpour, M. Yousefi, A. Frontera, M. Lari Dashtbayaz, M. Shamsipure, M. Ardalani, Effects of N-oxidation on the molecular and crystal structures and properties of isocinchomeronic acid, its metal complexes and their supramolecular architectures: experimental, CSD survey, solution and theoretical approaches, RSC Adv., 9 (2019) 25382.
56. A. Amiri, **M. Mirzaei**, S. Derakhshanrad, A nanohybrid composed of polyoxotungstate and graphene oxide for dispersive micro solid-phase extraction of non-steroidal anti-inflammatory drugs prior to their quantitation by HPLC, [Microchim. Acta](https://www.researchgate.net/journal/1436-5073_Microchimica_Acta), 186 (2019) 534.
57. M. Samaniyan, **M. Mirzaei**, R. Khajavian, H. Eshtiagh-Hosseini, C. Streb, Heterogeneous Catalysis by Polyoxometalates in Metal-Organic Frameworks, ACS Catal., 9 (2019) 10174.
58. M.M. Heravi, T. Momeni, **M. Mirzaei**, V. Zadsirjan, M. Tahmasebi, An amino acid@isopolyoxometalate nanoparticles catalyst containing aspartic acid and octamolybdate for the synthesis of functionalized spirochromenes, Inorg. Nano-Met. Chem., (2020), doi: 10.1080/24701556.2020.1813172.
59. [E.U.](https://www.scopus.com/authid/detail.uri?authorId=9045133700) Mughal, [**M.**](https://www.scopus.com/authid/detail.uri?authorId=13103515900) **Mirzaei**, [A.](https://www.scopus.com/authid/detail.uri?authorId=13608917600) Sadiq, S. Fatima, A. Naseem, N. Naeem, N. Fatima, S. Kausar, A.A. Altaf, M.N. Zafar, B.A. Khan, Terpyridine-metal complexes: Effects of different substituents on their physico-chemical properties and density functional theory studies: Properties of terpyridine base complexes, R. Soc. Open Sci., 7 (2020) 1208.
60. M. Ghanbarian, S.Y. Shirazi Beheshtiha, M.M. Heravi, **M. Mirzaei**, V. Zadsirjan, N. Lotfian, A Nano-sized Nd-Ag@polyoxometalate catalyst for catalyzing the multicomponent Hantzsch and Biginelli reactions, J. Clust. Sci., 31, (2020), 1295.
61. **M. Mirzaei**, F. Sadeghi, K. Molčanov, J. K. Zaręba, R. M. Gomila, A. Frontera, Recurrent supramolecular motifs in a series of acidbase adducts based on pyridine-*N-oxide*-2,5-dicarboxylic acid and organic bases: inter- and intramolecular hydrogen bonding, Cryst. Growth Des., 20 (2020) 1738.
62. M. Chahkandi, A. Keivanloo Shahrestanaki, **M. Mirzaei**, M. Nawaz Tahir, J. T. Mague, Crystal and molecular structure of [Ni(2-H2NC(=O)C5H4N)2(H2O)2][Ni(2,6-(O2C)2C5H3N)2]4.67H2O; ab initio hydrogen bondingenergies in the crystal, Acta Cryst., B76 (2020) 591.
63. [S. Hosseinzadeh-Baghan](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Hosseinzadeh-Baghan%2C+Sara), [**M. Mirzaei**](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Mirzaei%2C+Masoud), [H. Eshtiagh‐Hosseini](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Eshtiagh-Hosseini%2C+Hossein), [V. Zadsirjan](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Zadsirjan%2C+Vahideh), [M.M. Heravi](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Heravi%2C+Majid+M), [J.T. Mague](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Mague%2C+Joel+T), An inorganic-organic hybrid material based on a Keggin-type polyoxometalate@Dysprosium as an effective and green catalyst in the synthesis of 2-amino-4*H*-chromenes via multicomponent reactions, Appl. Organomet. Chem., 34 (2020) e5793.
64. [J. Ashraf](https://www.tandfonline.com/author/Ashraf%2C+Jamshaid), [E. Mughal](https://www.tandfonline.com/author/Mughal%2C+Ehsan+Ullah), [A. Sadiq](https://www.tandfonline.com/author/Sadiq%2C+Amina), [M. Bibi](https://www.tandfonline.com/author/Bibi%2C+Maryam), [N. Naeem](https://www.tandfonline.com/author/Naeem%2C+Nafeesa), [A. Ali](https://www.tandfonline.com/author/Ali%2C+Anser), [A. Massadaq](https://www.tandfonline.com/author/Massadaq%2C+Anam), [N. Fatima](https://www.tandfonline.com/author/Fatima%2C+Nighat), [A. Javid](https://www.tandfonline.com/author/Javid%2C+Asif), [M.N. Zafar](https://www.tandfonline.com/author/Zafar%2C+Muhammad+Naveed), [B.A. Khan](https://www.tandfonline.com/author/Khan%2C+Bilal+Ahmad), [M.F. Nazar](https://www.tandfonline.com/author/Nazar%2C+Muhammad+Faizan), [A. Mumtaz](https://www.tandfonline.com/author/Mumtaz%2C+Amara), M.N. Tahir, **M. Mirzaei**, Exploring 3-hydroxyflavone scaffolds as mushroom tyrosinase inhibitors: synthesis, X-ray crystallography, antimicrobial, fluorescence behaviour, structure-activity relationship and molecular modelling studies, J. Biomol. Struct. Dyn.,(2020),doi: [10.1080/07391102.2020.1805364](https://doi.org/10.1080/07391102.2020.1805364).
65. R. Khajavian, **M. Mirzaei**, H. Alizadeh, [Current status and future prospects of metal-organic frameworks at the interface of dye-sensitized solar cells](http://profdoc.um.ac.ir/paper-abstract-1077752.html), Dalton Trans., 49 (2020) 13936.
66. **M. Mirzaei**, H. Maleki, K. Sayyadi, M. Babaiezarch, M. Darroudi, S.T. Keshavarz, J. Sayyadi, A. Fallah, [Silica mesoporous structures: Effective nanocarriers in drug delivery and nanocatalysts](http://profdoc.um.ac.ir/paper-abstract-1080787.html), Appl. Sci. 10 (2020) 7533.
67. S. Derakhshanrad, **M. Mirzaei**, C. Streb, A. Amiri, C. Ritchie, [Polyoxometalate-based frameworks as adsorbents for drug of abuse extraction from hair samples](http://profdoc.um.ac.ir/paper-abstract-1081722.html), Inorg. Chem., 60 (2021) 1472.
68. Z. Khoshkhan, **M. Mirzaei**,H. Eshtiagh-Hosseini, M. Izadyar,J.T. Mague, M. Korabik, Two polyoxometalate-based hybrids constructed from trinuclear lanthanoid clusters with single‐molecule magnet behavior, Polyhedron, 194 (2021) 114903.
69. M. Samaniyan, **M. Mirzaei**, R.M. Gomila, H. Eshtiagh-Hosseini, N. Lotfian, J.T. Mague, A. Nakhaei Pour, A. Frontera, Supramolecular network of a framework material supported by the anion-π linkage of Keggin-type heteropolyoxotungstates: experimental and theoretical insights, Dalton Trans., 50 (2021) 1895.
70. M. Bazargan, **M.** **Mirzaei,** A. Amiri, C. Ritchie, Efficient dispersive micro solid-phase extraction of antidepressant drugs by a robust molybdenum-based coordination polymer, Microchim. Acta, 188 (2021) 108.
71. M. Tahmasebi, **M. Mirzaei**, A. Frontera, [Noble metals in polyoxometalates](http://profdoc.um.ac.ir/paper-abstract-1079886.html), Inorg. Chim. Acta, 523 (2021) 120410.
72. M. M. Heravi, T. Momeni, **M. Mirzaei**, V. Zadsirjan, M. Tahmasebi, An amino acid@isopolyoxometalate nanoparticles catalyst containing aspartic acid and octamolybdate for the synthesis of functionalized spirochromenes, Inorg. Nano-Metal Chem., 51 (2021) 896.
73. A. Hashemzadeh, G. Drummen, A. Avan, M. Darroudi, M. Khazaei, R. Khajavian, A. Rangrazi, **M. Mirzaei**, When metal-organic framework mediated smart drug delivery meets gastrointestinal cancers, J. Mater. Chem. B, 9 (2021) 3967.
74. Z. Rahmati, R. Khajavian, **M. Mirzaei**, Anisotropy in Metal-Organic Framework Thin Films, Inorg. Chem. Front., 8 (2021) 3581.
75. M. Bazargan, F. Ghaemi, A. Amiri, **M.** **Mirzaei,** Metal-organic framework-based sorbents in analytical sample preparation, Coord. Chem. Rev., 445 (2021) 214107.
76. M. Akbari, **M.** **Mirzaei,** A. Amiri, Synergistic effect of lacunary polyoxotungstates and carbon nanotubes for extraction of organophosphorus pesticides, Microchim. J., 170 (2021) 106665.
77. M. Babaei Zarch, **M. Mirzaei**, M. Bazargan, S. K. Gupta, F. Meyer, J. T. Mague, Single-molecule magnets within polyoxometalate-based frameworks, Dalton Trans., 50 (2021) 15047.
78. R. Khajavian, V. Jodaian, F. Taghipour, J. T. Mague, **M. Mirzaei**, Roles of Organic Fragments in Redirecting Crystal/Molecular Structures of Inorganic-Organic Hybrids Based on Lacunary Keggin-Type Polyoxometalates, Molecules, 26 (2021) 5994.
79. J. Ashraf, E. U. Mughal, R. I. Alsantali, A. Sadiq, R. S. Jassas, N. Naeem, Z. Ashraf, Y. Nazir, M. N. Zafar, A. Mumtaz, **M. Mirzaei**, S. Saberi, S. A. Ahmed, 2-Benzylidenebenzofuran-3(2*H*)-ones as a new class of alkaline phosphatase inhibitors: synthesis, SAR analysis, enzyme inhibitory kinetics and computational studies, RSC Adv., 11 (2021) 35077.
80. H. Alizadeh, **M. Mirzaei**, A. Sh. Saljooghi, V. Jodaian, M. Bazargan, J. T. Mague, R. M. Gomlia, A. Frontera, Coordination complexes of zinc and manganese based on pyridine-2,5-dicarboxylic acid *N*-oxide: DFT studies and antiproliferative activities consideration, RSC. Adv., 11 (2021) 37403.
81. A. Abdar, A. Amiri, **M. Mirzaei**, Semi-automated solid-phase extraction of polycyclic aromatic hydrocarbons based on stainless steel meshes coated with metal-organic framework/graphene oxide, Microchem. J., 177 (2022) 107269.
82. Z. Yekke-Ghasemi, M. M. Heravi, M. Malmir, G. Jahani, M. Bagheri Bisafar, **M. Mirzaei**, Fabrication of Heterogeneous-based Lacunary Polyoxometalates as Efficient Catalysts for the Multicomponent and Clean Synthesis of Pyrazolopyranopyrimidines, Inorg. Chem. Commun., 140 (2022) 109456.
83. M. Malmir, M. M. Heravi, Z. Yekke-Ghasemi, **M. Mirzaei**, Incorporating heterogeneous lacunary Keggin anions as efficient catalysts for solvent-free cyanosilylation of aldehydes and ketones. Sci. Rep., 12 (2022) 11573.
84. M. Daraie, **M. Mirzaei**, M. Bazargan, V. S. Amiri, B. Abdolahi Sanati, M. M. Heravi, Lanthanoid‑containing polyoxometalate nanocatalysts in the synthesis of bioactive isatin‑based compounds Sci. Rep., 12 (2022) 12004.
85. Z. Hosseini˗Hashemi, **M. Mirzaei**, M. Eslami Moghadam, Property evaluation of two anticancer candidate platinum complexes with N-isobutyl glycine ligand against human colon cancer. Biometals 35 (2022) 987-1009.
86. E. Torabi, **M. Mirzaei**, M. Bazargan, A. Amiri, A critical review of covalent organic frameworks-based sorbents in extraction methods, Anal. Chim. Acta., 1224 (2022) 340207.
87. M. Nazari, A. S. Saljooghi, M. Ramezani, M. Alibolandi, **M. Mirzaei**, Current status and future prospects of nanoscale metal-organic frameworks in bioimaging, J. Mater. Chem. B, 10 (2022) 8824-8851.
88. M. Malmir, M. M. Heravi, Z. Yekke-Ghasemi, S. Saberi, **M. Mirzaei**, Fabrication of heterogeneous Zr-containing polyoxometalate as an efficient catalyst for the synthesis of a broad range of 1,5-benzodiazepine derivations, J. Mol. Struct., 1275, (2023) 134631.
89. M. Bazargan, **M. Mirzaei**, A. Amiri, J. T. Mague, Opioid drug detection in hair samples using Polyoxometalate-based frameworks, Inorg. Chem., 62 (2023) 56-65.
90. E. Torabi, M. Moghadasi, **M. Mirzaei**, A. Amiri, Nanofiber-based sorbents: Current status and applications in extraction methods, J. Chromatogr. A., 1689 (2023) 463739.
91. Z. Setifi,N. Cubillán,C. Glidewell,D. M. Gil, E. Torabi, M. Morales-Toyo, N. Dege, F. Setifi, **M. Mirzaei**, A combined experimental, Hirshfeld surface analysis, and theoretical study on *fac*-[tri(azido)(tris(2-pyridyl)amine)iron(III)], Polyhedron, 223 (2023) 116320.
92. S. Ghanei-Zare, M. Moghadasi, R. Khajavian, N. Akbarzadeh-T, **M. Mirzaei**, A metal-organic framework-derived CuO microrods for fast photocatalytic degradation of methylene blue, J. Mol. Struct., 1286, (2023) 135563.
93. R. Behmadi, **M. Mirzaei**, M. R. Afshar, H. Najafi, Investigation of chalcopyrite removal from low-range molybdenite using response surface methodology and its effect on molybdenum trioxide morphology by roasting, RSC Adv., 13 (2023) 14899-14913.
94. A. Abdar, A. Amiri, **M. Mirzaei**, Electrospun mesh pattern of polyvinyl alcohol/zirconium-based metal-organic framework nanocomposite as a sorbent for extraction of phthalate esters, J. Chromatogr. A., 1707 (2023) 464295.
95. R. Behmadi, **M. Mirzaei**, M. R. Afshar, H. Najafi, Influence of chalcopyrite removal and mechanical exfoliation on the performance of molybdenite catalysts supported on activated bauxite for alcohol synthesis by Fischer-Tropsch process, Fuel, 357 (2024) 129772.
96. F. Bodaghabadi, A. Amiri, **M. Mirzaei**, Magnetic solid-phase extraction of polycyclic aromatic hydrocarbons from water samples using magnetic carbon nanofiber/MIL-101(Cr) nanocomposite, Anal. Methods, 15 (2023) 5526.
97. Z. Yekke‑Ghasemi, M. M. Heravi, M. Malmir, **M. Mirzaei**, Efficient oxidation of sulfides to sulfoxides catalyzed by heterogeneous Zr‑containing polyoxometalate grafted on graphene oxide, Sci. Rep., 13 (2023) 16752.
98. M. Malmir, M. M. Heravi, Z. Yekke-Ghasemi, **M. Mirzaei**, Towards an efficient oxidation of sulfides to sulfoxides over magnetic and grafted polyoxometalate on graphene oxide nanosheets, Polyhedron 247 (2024) 116729.
99. Z. Khoshkhan, M. Mirzaei, A. Amiri, N. Lotfian, and J.T. Mague, Inorganic Chemistry, 63 (2024) 2877.
100. E. Torabi, A. Abdar, N. Lotfian, M. Bazargan, C. Simms M.A. Moussawi, A. Amiri, M. Mirzaei, and T.N. Parac-Vogt, Coordination Chemistry Reviews, 506 (2024) 215680.