

Iran University of Science and Technology
Faculty of Chemistry
Tehran
Iran

vsafarifard@iust.ac.ir
vahidsafarifard@gmail.com
Phone: 021-73228327
Mobile: 09122596623

Vahid Safarifard

Doctor of Philosophy in Chemistry



PROFESSIONAL EXPERIENCES

- 2017 - now** **Assistant Professor**
Assistant Professor in Inorganic Chemistry
Department of Chemistry
Iran University of Science and Technology, Tehran, Iran
- 2015 - 2017** **Post-Doctoral Fellow**
Porous Functional Materials Research Group
Tarbiat Modares University, Faculty of Sciences, Department of Inorganic Chemistry, Tehran, Iran
- 2011 - 2015** **Ph.D. project:** *"Design, synthesis and postsynthetic modification of amine-functionalized nano porous metal-organic frameworks"*
1- Porous Functional Materials Research Group
Tarbiat Modares University, Faculty of Sciences, Department of Inorganic Chemistry, Tehran, Iran
2- Supramolecular NanoChemistry & Materials Group
Catalan Institute of Nanoscience and Nanotechnology, Barcelona, Spain
- 2009 - 2011** **Master project:** *"Syntheses and Characterization of Porous Nano Coordination Polymers Based on Triazole Carboxylate Ligands as well as Investigation of Size and Morphology Changes by Solid State Crystal to Crystal Transformation in Some of These Nano Structures"*

Porous Functional Materials Research Group

Tarbiat Modares University, Faculty of Sciences, Department of Inorganic Chemistry, Tehran, Iran

EDUCATIONAL BACKGROUND

- 2011 – 2015** **Ph.D. in Chemistry - Metal-Organic Frameworks Chemistry**
Tarbiat Modares University, Department of Inorganic Chemistry, Tehran, Iran
- 2009 – 2011** **Master of Science in Inorganic Chemistry, specializing in Coordination Polymers**
Tarbiat Modares University, Department of Inorganic Chemistry, Tehran, Iran
- 2005– 2009** **Bachelor of Science in Applied Chemistry**
Bu-Ali-Sina University, Hamedan, Iran

HONORS / AWARDS

- Being included in the list of 2% of the world's top scientists based on the data of the Scopus citation database in 2020 and 2021.
- Top educational teacher in faculty of chemistry at Iran University of Science and Technology in 2019.
- Top young researcher of Iran University of Science and Technology in 2018.
- Published more than 68 scientific articles in prestigious ISI journals. (Hindex = 31).

SKILLS & ACTIVITIES

- Fields of Expertise** Inorganic chemistry, porous materials (MOFs), crystalline materials, topology and materials design, sorption properties (gas storage, separation, etc.)
- Trainings** BL13-XALOC beamline user for single-crystal X-ray diffraction analysis in ALBA Synchrotron. XAFS and IR beamlines at SESAME. Thermal gravimetry (TGA), Powder X-ray diffraction (PXRD), Infrared spectroscopy (FT-IR), and absorption of nitrogen gas, carbon dioxide and methane at the Catalan Institute of Nanotechnology. Nuclear Magnetic Resonance Imaging (NMR) at UAB University Barcelona. Solid and soluble fluorescence, UV-Vis at Tarbiat Modares University.
- Languages** English (fluent)
- Computer skills** Crystal structure solution (Olex2, Shelx), Diamond, Materials Studio, TOPOS, Mercury, ChemOffice, Origin, Microsoft Office Suite, Photoshop, Sketchup, etc.
- Scientific Memberships** Iranian Chemical Society

JOURNAL PUBLICATIONS (ISI)

1. P. Miry, [V. Safarifard](#), M. Moradi, A. Massoudi, Impact of linker/metal tuning on the performance of two-dimensional Ni₃(HITP)₂ MOF-based Mg ion batteries. **FlatChem** 2022, 34, 100382.
2. N. Khosroshahi, M. Bakhtian, [V. Safarifard](#) Mechanochemical Synthesis of Ferrite/MOF nanocomposite: Efficient photocatalyst for the removal of Meropenem and hexavalent Chromium from water. **Journal of Photochemistry and Photobiology A: Chemistry** 2022, 431, 114033.
3. B. Chameh, N. Khosroshahi, M. Bakhtian, M. Moradi, [V. Safarifard](#), MOF derived CeO₂/CoFe₂O₄ wrapped by pure and oxidized g-C₃N₄ sheet as efficient supercapacitor electrode and oxygen reduction reaction electrocatalyst materials. **Ceramics International** 2022, In Press.
4. N. Khosroshahi, M. Darabi Goudarzi, M. Eidi, [V. Safarifard](#), Collocation of MnFe₂O₄ and UiO-66-NH₂: An efficient and reusable nanocatalyst for achieving high-performance in hexavalent chromium reduction. **Journal of Molecular Structure** 2022, 1263, 132994.
5. A. Amini, M. Karimi, M. Rabbani, [V. Safarifard](#), Cobalt-doped g-C₃N₄/MOF heterojunction composite with tunable band structures for photocatalysis aerobic oxidation of benzyl alcohol. **Polyhedron** 2022, , 115728.
6. N. Khosroshahi, M. Darabi Goudarzi, [V. Safarifard](#), Fabrication of a novel heteroepitaxial structure from an MOF-on-MOF architecture as a photocatalyst for highly efficient Cr(VI) reduction. **New Journal of Chemistry** 2022, 46, 3106
7. S. M. Hosseini, H. Dehghan, [V. Safarifard](#), Enhancement of photocatalytic aerobic oxidation of benzyl alcohol with the incorporation of cobalt in Zn-based MOF via post-synthetic metal exchange. **Polyhedron** 2022, 212, 115581
8. N. Khosroshahi, M. Karimi, T. Taghvaei, [V. Safarifard](#), Ultrasound-assisted synthesis of CoFe₂O₄/Ce-UiO-66 nanocomposite for photocatalytic aerobic oxidation of aliphatic alcohols. **Materials Today Chemistry** 2021, 22, 100582
9. S. M. Hosseini, M. Karimi, [V. Safarifard](#), Metal-organic framework/carbon nitride nanosheets composites (TMU-49/CNNs): efficient photocatalyst for aerobic oxidation of alcohols under visible light. **New Journal of Chemistry** 2021, 45, 17674
10. M. Rad, S. Borhani, M. Moradi, [V. Safarifard](#), Tuning the crystallinity of ZrO₂ nanostructures derived from thermolysis of Zr-based aspartic acid/succinic acid MOFs for energy storage application. **Physica E: Low-dimensional Systems and Nanostructures** 2021, 134, 114921.
11. Y. Li, M. Karimi, Y.-N. Gong, N. Dai, [V. Safarifard](#), H.-L. Jiang, Integration of metal-organic frameworks and covalent organic frameworks: Design, synthesis, and applications. **Matter** 2021, 4, 2230.
12. M. Karimi, H. Mohebbali, S. Sadeghi, [V. Safarifard](#), A. R. Mahjoub, A. Heydari, Additive-free aerobic C-H oxidation through a defect-engineered Ce-MOF catalytic system. **Microporous and Mesoporous Materials** 2021, 322, 111054.
13. M. Karimi, S. Sadeghi, H. Mohebbali, Z. Azarkhosh, [V. Safarifard](#), A. R. Mahjoub, A. Heydari, Fluorinated Solvent-Assisted Photocatalytic Aerobic Oxidative Amidation of Alcohols via Visible-Light-Mediated HKUST-1/Cs-POMoW Catalysis. **New Journal of Chemistry** 2021, 45, 14024.
14. H. Shayegan, G. A.M. Ali, [V. Safarifard](#), Amide-Functionalized Metal-Organic Framework for High Efficiency and Fast Removal of Pb(II) from Aqueous Solution. **Journal of Inorganic and Organometallic Polymers and Materials** 2020, 30, 3170.
15. E. Naghian, E. M. Khosrowshahi, E. Sohoul, F. Ahmadi, M. R. Nasrabadi, [V. Safarifard](#), A new electrochemical sensor for the detection of fentanyl lethal drug by a screen-printed carbon electrode modified with the open-ended channels of Zn(II)-MOF. **New Journal of Chemistry** 2020, 44, 9271.

16. M. Aghayi-Anaraki, [V. Safarifard](#), Fe₃O₄@MOF Magnetic Nanocomposites: Synthesis and Applications. **European Journal of Inorganic Chemistry** 2020, 20, 1916.
17. E. Moradi, R. Rahimi, [V. Safarifard](#), Ultrasound-assisted preparation nanostructures of Cu₂(BDC)₂(BPY)-MOF: Highly selective and sensitive luminescent sensing of THF small molecule and Cu²⁺ and Pb²⁺ ions. **Journal of Solid State Chemistry** 2020, 288, 121397.
18. E. Naghian, F. Shahdost-faradd, E. Sohoulif, [V. Safarifard](#), M. Najafih, M. R. Nasrabadi, A. Sobhani-Nasabi, Electrochemical determination of levodopa on a reduced graphene oxide paste electrode modified with a metal-organic framework. **Microchemical Journal** 2020, 156, 104888.
19. Z. S. Rozveh, S. Kazemia, M. Karimi, G. A.M. Ali, S. Kazemi, [V. Safarifard](#), Effect of functionalization of metal-organic frameworks on anion sensing. **Polyhedron** 2020, 183, 114514.
20. E. Moradi, R. Rahimi, [V. Safarifard](#), Porphyrinic zirconium-based MOF with exposed pyrrole Lewis base site as an efficient fluorescence sensing for Hg²⁺ ions, DMF small molecule, and adsorption of Hg²⁺ ions from water solution. **Journal of Solid State Chemistry** 2020, 286, 121277.
21. H. Shayegan, G. A.M. Ali, [V. Safarifard](#), Recent Progress in the Removal of Heavy Metal Ions from Water Using Metal-Organic Frameworks. **ChemistrySelect** 2020, 5, 124.
22. A. Amini, S. Kazemi, [V. Safarifard](#), Metal-organic framework-based nanocomposites for sensing applications - A Review. **Polyhedron** 2020, 177, 114260.
23. Z. Seyfi Hasankola, R. Rahimi, H. Shayegan, E. Moradi, [V. Safarifard](#), Removal of Hg²⁺ heavy metal ion using a highly stable mesoporous porphyrinic zirconium metal-organic framework. **Inorganica Chimica Acta** 2020, 501, 119264.
24. E. Moradi, R. Rahimi, Y. D. Farahani, [V. Safarifard](#), Porphyrinic zirconium-based MOF with exposed pyrrole Lewis base site as a luminescent sensor for highly selective sensing of Cd²⁺ and Br ions and THF small molecule. **Journal of Solid State Chemistry** 2019, 282, 121103.
25. H. Shayegan, Y. D. Farahani, [V. Safarifard](#), A pillar-layer metal-organic framework as a turn-on luminescent sensor for highly selective and sensitive detection of Zn(II) ion. **Journal of Solid State Chemistry** 2019, 279, 120968.
26. Z. Seyfi Hasankola, R. Rahimi, [V. Safarifard](#), Rapid and efficient ultrasonic-assisted removal of lead(II) in water using two copper- and zinc-based metal-organic frameworks. **Inorganic Chemistry Communications** 2019, 107, 107474.
27. M. Ehsani Besheli, R. Rahimi, Y. D. Farahani, [V. Safarifard](#), A porous Ni-based metal-organic framework as a selective luminescent probe to Fe³⁺ metal ion and MeOH. **Inorganica Chimica Acta** 2019, 495, 118956.
28. Y. D. Farahani, [V. Safarifard](#), Highly selective detection of Fe³⁺, Cd²⁺ and CH₂Cl₂ based on a fluorescent Zn-MOF with azine-decorated pores. **Journal of Solid State Chemistry** 2019, 275, 131.
29. E. Khezerloo, S.M. Mousavi-khoshdel, [V. Safarifard](#), Sensitive and selective detection of metal ions and small molecules in aqueous media using a hydrolytically stable amide-functionalized metal-organic framework. **Polyhedron** 2019, 166, 166.
30. M. Tanhaeia, A. R. Mahjoub, [V. Safarifard](#), Energy-efficient sonochemical approach for the preparation of nanohybrid composites from graphene oxide and metal-organic framework. **Inorganic Chemistry Communications** 2019, 102, 185.
31. Y. D. Farahani, [V. Safarifard](#), A luminescent metal-organic framework with pre-designed functionalized ligands as an efficient fluorescence sensing for Fe³⁺ ions. **Journal of Solid State Chemistry** 2019, 270, 428.
32. E. Moradi, R. Rahimi, [V. Safarifard](#), Sonochemically synthesized microporous metal-organic framework representing unique selectivity for detection of Fe³⁺ ions. **Polyhedron** 2019, 154, 251.

33. S. Kazemi, [V. Safarifard](#), Carbon dioxide capture in MOFs: The effect of ligand functionalization. **Polyhedron** **2018**, 154, 236.
34. M. Tanhaeia, A. R. Mahjoub, [V. Safarifard](#), Ultrasonic-assisted synthesis and characterization of nanocomposites from azine-decorated metal-organic framework and graphene oxide layers. **Materials Letters** **2018**, 227, 318.
35. S. Beheshti, [V. Safarifard](#), A. Morsali, Isorecticular interpenetrated pillared-layer microporous metal-organic framework as a highly effective catalyst for three-component synthesis of pyrano[2,3-d]pyrimidines. **Inorganic Chemistry Communications** **2018**, 94, 80.
36. L. Esrafil, [V. Safarifard](#), E. Tahmasebi, M. D. Esrafil, A. Morsali, Functional group effect of isorecticular metal-organic frameworks on heavy metal ion adsorption. **New Journal of Chemistry** **2018**, 42, 8864.
37. M. Gharib, [V. Safarifard](#), A. Morsali, Ultrasound assisted synthesis of amide functionalized metal-organic framework for nitroaromatic sensing. **Ultrasonics - Sonochemistry** **2018**, 42, 112.
38. M. Tanhaeia, A. R. Mahjoub, [V. Safarifard](#), Sonochemical synthesis of amide-functionalized metal-organic framework/graphene oxide nanocomposite for the adsorption of methylene blue from aqueous solution. **Ultrasonics - Sonochemistry** **2018**, 41, 189.
39. [V. Safarifard](#), A. Morsali, Facile preparation of nanocubes zinc-based metal-organic framework by an ultrasound-assisted synthesis method; precursor for the fabrication of zinc oxide octahedral nanostructures. **Ultrasonics - Sonochemistry** **2018**, 40, 921.
40. M.-L. Hu, [V. Safarifard](#), E. Doustkhah, S. Rostamnia, A. Morsali, N. Nouruzi, S. Beheshtid, K. Akhbari, Taking Organic Reactions Over Metal-Organic Frameworks as Heterogeneous Catalysis. **Microporous and Mesoporous Materials** **2018**, 256, 111.
41. M. Ghorbanloo, [V. Safarifard](#), A. Morsali, Heterogeneous Catalysis with Coordination Modulation Synthesized MOF: Morphology-Dependent Catalytic Activity. **New Journal of Chemistry** **2017**, 41, 3957-3965
42. [V. Safarifard](#), S. Rodríguez-Hermida, V. Guillermin, I. Imaz, M. Bigdeli, A. Azhdari Tehrani, J. Juanhuix, A. Morsali, M. E. Casco, J. Silvestre-Albero, E. V. Ramos-Fernandez, Daniel MasPOCH, The influence of the amide groups in the CO₂/N₂ selectivity of a series of isorecticular, interpenetrated metal-organic frameworks. **Crystal Growth & Design** **2016**, 16, 6016–6023
43. Z. Saedi, [V. Safarifard](#), A. Morsali, Dative and covalent-dative postsynthetic modification of a two-fold interpenetration pillared-layer MOF for heterogeneous catalysis: A comparison of catalytic activities and reusability. **Microporous and Mesoporous Materials** **2016**, 229, 51-58
44. Y. Hanifehpour, [V. Safarifard](#), A. Morsali, B. Mirtamizdoust, S. W. Joo, Ultrasound-assisted fabrication of a new nano-rods 3D copper(II)-organic coordination supramolecular compound. **Ultrasonics Sonochemistry** **2016**, 31, 201–205
45. A. Azhdari Tehrani, [V. Safarifard](#), A. Morsali, G. Bruno, H. Amiri Rudbari, Ultrasound-assisted synthesis of metal-organic framework nanorods of Zn-HKUST-1 and their templating effects for facile fabrication of zinc oxide nanorods via solid-state transformation. **Inorganic Chemistry Communications** **2015**, 59, 41–45
46. A. R. Abbasi, J. Aali, A. Azadbakht, A. Morsali, [V. Safarifard](#), Synthesis and Characterization of TMU-16-NH₂ Metal-organic Framework Nanostructure Upon Silk Fiber: Study of Structure Effect on Morphine and Methyl Orange Adsorption Affinity. **Fibers and Polymers** **2015**, 16, 1193-1200
47. S. Khazalpour, [V. Safarifard](#), A. Morsali, Davood Nematollahi, Electrochemical synthesis of pillared layer mixed ligand metal-organic framework: DMOF-1-Zn. **RSC Advances** **2015**, 5, 36547-36551
48. [V. Safarifard](#), A. Morsali, Applications of ultrasound to the synthesis of nanoscale metal-organic coordination polymers; a review paper. **Coordination Chemistry Review** **2015**, 292, 1–14
49. [V. Safarifard](#), S. Beheshti, A. Morsali, An interpenetrating amine-functionalized metal-organic framework as an efficient and reusable catalyst for the selective synthesis of tetrahydro-chromenes. **CrystEngComm**, **2015**, 17, 1680–1685

50. Y. Hanifehpour, [V. Safarifard](#), A. Morsali, B. Mirtamizdoust, S. W. Joo, Sonochemical syntheses of two new flower-like nano-scale high coordinated lead(II) supramolecular coordination polymers. **Ultrasonics Sonochemistry** **2015**, *23*, 282–288
51. F. Z. Karizi, [V. Safarifard](#), S. K. Khani, A. Morsali, Ultrasound-assisted synthesis of nanorods 3D zinc(II) metal-organic polymer: Precursor for the fabrication of ZnO nano-structure. **Ultrasonics Sonochemistry** **2015**, *23*, 238–245
52. [V. Safarifard](#), A. Morsali, Influence of an amine group on the highly efficient reversible adsorption of iodine in two novel isorecticular interpenetrated pillared-layer microporous metal-organic frameworks. **CrystEngComm** **2014**, *16*, 8660–8663
53. X.-L. Wang, L. Hashemi, L.-H. Tu, S.-Y. Wang, Y. Shen, B.-F. Huang, H.-P. Xiao, [V. Safarifard](#), A. Morsali, Synthesis, crystal structures and photoluminescence properties of three cadmium(II) metal-organic coordination complexes constructed from flexible bis(imidazole) and carboxybenzaldehyde ligands. **Journal of Molecular Structure** **2014**, *1068*, 149-154
54. H. Wang, [V. Safarifard](#), S.-Y. Wang, L.-H. Tu, H.-P. Xiao, B.-F. Huang, X.-H. Li, M. Payehghadr, A. Morsali, Five copper(II) metal-organic coordination complexes with micro-channels based on flexible bis(imidazole) and carboxybenzaldehyde ligands; structural influence of experimental conditions on their frameworks. **RSC Advances** **2014**, *4*, 11423–11429
55. [V. Safarifard](#), A. Morsali, Sonochemical syntheses of a new fibrous-like nano-scale manganese(II) coordination supramolecular compound; precursor for the fabrication of octahedral-like Mn_3O_4 nano-structure. **Ultrasonics Sonochemistry** **2014**, *21*, 253–261
56. A. Tahmasian, [V. Safarifard](#), A. Morsali, S. W. Joo, Sonochemical syntheses of a new fibrous-like nano-scale strontium(II) 3D coordination polymer; precursor for the fabrication of a strontium carbonate nanostructure. **Polyhedron** **2014**, *67*, 81-88.
57. [V. Safarifard](#), A. Morsali, S. W. Joo, Sonochemical synthesis and characterization of nano-sized lead(II) 3D coordination polymer: Precursor for the synthesis of lead(II) oxybromide nanoparticles. **Ultrasonics Sonochemistry** **2013**, *20*, 1254–1260
58. [V. Safarifard](#), A. Morsali, Solid state syntheses of nano lead(II) iodide triazole carboxylate coordination polymer from its bromide/thiocyanate/chloride analogs via mechanochemical crystal to crystal transformations. **Inorganica Chimica Acta** **2013**, *405*, 203-208
59. [V. Safarifard](#), A. Morsali, Sonochemical syntheses of nano lead(II) iodide triazole carboxylate coordination polymer: Precursor for facile fabrication of lead(II) oxide/iodide nano-structures. **Inorganica Chimica Acta** **2013**, *398*, 151-157
60. M.-L. Hu, [V. Safarifard](#), A. Morsali, T.-L. Shao, X.-C. Li, Facile fabrication of ruthenium(IV) oxide nanostructures by thermal decomposition of two new organoruthenium(II) complexes. **Inorganic Chemistry Communications** **2013**, *37*, 189-192
61. J. Wang, [V. Safarifard](#), A.-Y. Wang, Y. Shen, J.-M. Cai, H.-P. Xiao, A. Morsali, pH controlled supramolecular structures of new silver(I) complexes based on 2-sulfoterephthalic acid and 4,4'-bipyridine. **Inorganica Chimica Acta** **2013**, *407*, 216-222
62. [V. Safarifard](#), A. Morsali, Mechanochemical solid-state transformations from a 3D lead(II) chloride triazole carboxylate coordination polymer to its bromide/thiocyanate analogs via anion-replacements: precursors for the preparation of lead(II) chloride/bromide/sulfide nanoparticles. **CrystEngComm** **2012**, *14*, 5130-5132
63. [V. Safarifard](#), A. Morsali, Sonochemical syntheses of a nano-sized copper(II) supramolecule as a precursor for the synthesis of copper(II) oxide nanoparticles. **Ultrasonics Sonochemistry** **2012**, *19*, 823-829
64. [V. Safarifard](#), A. Morsali, Sonochemical syntheses of a nanoparticles cadmium(II) supramolecule as a precursor for the synthesis of cadmium(II) oxide nanoparticles. **Ultrasonics Sonochemistry** **2012**, *19*, 1227-1233
65. M. Payehghadr, [V. Safarifard](#), M. Ramazani, A. Morsali, Preparation of Cadmium(II) Oxide Nanoparticles from a New One-Dimensional Cadmium(II) Coordination Polymer Precursor; Spectroscopic and Thermal Analysis Studies. **Journal of Inorganic and Organometallic Polymers and Materials** **2012**, *22*, 543-548.
66. [V. Safarifard](#), A. Morsali, Reversible crystal-to-crystal transformation of a 3D-3D coordination polymer by solid state anion-replacement with no change in nano-particle morphology. **CrystEngComm** **2011**, *13*, 4817-4819.

67. [V. Safarifard](#), A. Morsali, Sonochemical syntheses and characterization of nano-sized lead(II) coordination polymer with ligand 1H-1,2,4-triazole-3-carboxylate. **Ultrasonics Sonochemistry** **2012**, 19, 300-306.
68. F. Marandi, [V. Safarifard](#), A. Morsali, H.-K. Fun, Sonochemical synthesis and characterization of a nanostructured 3-D lead(II) coordination polymer with 4-methoxybenzoyltrifluoroacetone. **Journal of Coordination Chemistry** **2011**, 64, 3781-3791.

Book Chapter

1. G. A. M. Ali, Z. H. Bakr, [V. Safarifard](#), K. F. Chong, Recycled Nanomaterials for Energy Storage (Supercapacitor) Applications. **Waste Recycling Technologies for Nanomaterials Manufacturing**, Springer **2021**, 175-202.
2. F. Parsapour, M. Karimi, S. Kazemi, [V. Safarifard](#), Chapter 6 - Fluorescent sensing using metal-organic and covalent-organic framework nanosheets **Sensing and Biosensing with Optically Active Nanomaterials**, Elsevier **2022**, 143-174.

JOURNAL PUBLICATIONS (ISC)

1. P.S. Miri, N. Khosroshahi, M. Darabi Goudarzi, [V. Safarifard](#), MOF-biomolecule nanocomposites for electrosensing. **Nanochem Res** 6(2): 1-10, Summer and Autumn **2021**.
2. S. Kazemi, [V. Safarifard](#), The Effect of Amine-Functional Group on Heavy Metal Ion Detection of a Cu-Based Metal-Organic Framework. **Nanochem Res** 6(1): 1-9, Winter and Spring **2021**.
3. B. Jeyhoon; Y. Davoudabadi Farahani; [V. Safarifard](#), Application of nanoporous metal-organic frameworks as chemical sensors. **Journal of Applied Research in Chemistry** **2021**, 15, 1.
4. H. Shayegan, [V. Safarifard](#), H. Taherkhani, M. A. Rezvani, Efficient removal of cobalt(II) ion from aqueous solution using amide-functionalized metal-organic framework. **Iranian Chemical Communication** **2020**, 8, 190.
5. S. Azadi, R. Zare-Dorabei, F. Hamidi, [V. Safarifard](#), Synthesis of GQD@ZIF-8 nano hybrids and its application as a lead optical sensor. **Journal of Applied Chemistry** **2020**, 15, 327.
6. Y. D. Farahani, [V. Safarifard](#), An amine/imine functionalized microporous MOF as a new fluorescent probe exhibiting selective sensing of Fe³⁺ and Al³⁺ over mixed metal ions. **Iranian Chemical Communication** **2020**, 8, 109.
7. Y. D. Farahani, M. Tanhaei, [V. Safarifard](#), Nanoporous coordination polymers: design, synthesis, and application. **Iran Polymer Technology; Research and Development** **2019**, 4, 19.
8. Kazemi, [V. Safarifard](#), Carbon Dioxide Capture on Metal-organic Frameworks with Amide-decorated Pores. **Nanochem Res** 3(1): 62, Winter and Spring **2018**.

ANALYSIS OF THE IMPACT FACTOR AND CITATIONS OF THE PUBLICATIONS

- Brief resume of the journals (Only **Q1**; with the corresponding impact factor, ISI Web of Knowledge), in which the articles have been published:

Journals	Impact Factor	Number
Coordination Chemistry Review	22.3	1

Matter	15.5	1
Materials Today Chemistry	8.3	1
Ultrasonics Sonochemistry	7.4	11
Microporous and Mesoporous Materials	5.4	3
FlatChem	5.2	1
Ceramics International	4.5	1
Journal of Photochemistry and Photobiology A: Chemistry	4.3	1
Crystal Growth & Design	4.1	1
Journal of Photochemistry and Photobiology A: Chemistry	4.1	1
New Journal of Chemistry	3.59	6
CrystEngComm	3.54	4
Materials Letters	3.42	1
RSC advances	3.36	2

- The scientific papers (ISI & book chapter) so far reported are **70**, which have been cited **2245** times; with an average of **32** citations/paper.

- The **H index** is **31** (google scholar).

CONFERENCE PROCEEDINGS

1. A Luminescent Metal-Organic Framework with Pre-Designed Functionalized Ligands as an Efficient Fluorescence Sensing for Fe³⁺ Ions (Oral), **4th Iranian Applied Chemistry Conference**, Urmia University, Urmia, Iran, **2019**
2. Functional luminescent Zn(II)-based metal-organic framework material for highly selective and sensitive sensing of Metal Ions and Small Molecules (Oral), **9th National Seminar of Chemistry and Environment**, Arak University, Arak, Iran, **2019**
3. Ultrasound-assisted synthesis of zinc-based metal-organic framework nanocubes; Precursor for the preparation of zinc oxide nanostructures (Poster), **EuroMOF2017**, TU Delft, Delft, Netherlands, **2017**
4. Ultrasound-assisted synthesis of zinc-based metal-organic framework nanocubes; Precursor for the preparation of zinc oxide nanostructures (Poster), **EuroMOF2017**, TU Delft, Delft, Netherlands, **2017**
5. Coordination Modulation Synthesized MOF for Heterogeneous Catalysis (Poster), **The 25th Iranian Seminar of Organioic Chemistry**, IUST, Tehran, Iran, **2017**

6. X-ray Single Crystal Crystallography of Two Amide-functionalized Interpenetrated Metal-Organic Frameworks (Oral), **9th ILSF Users' Meeting**, Qazvin, Iran, **2017**
7. Isostructural interpenetration Metal-Organic Frameworks with inserted amide for selective CO₂ capture (Oral), **Sixth International Conference on Nanostructures (ICNS6)**, Kish Island, Iran, **2016**
8. An Amide-Functionalized Microporous Zn-Metal-Organic Framework for CO₂ Capture (Poster), **17th Iranian Inorganic Chemistry Conference**, Azarbaijan Shahid Madani University, Iran, **2015**
9. Amine functionalized metal-organic framework for highly efficient reversible adsorption of iodine (Poster), **15th ECSSC**, Vienna, Austria, **2015**
10. Amine functionalized microporous metal-organic framework for highly efficient reversible adsorption of iodine (Oral), **PNUChem11**, Isfahan, Iran, **2014**
11. Mechanochemical crystal-to-crystal transformations from a 3D lead(II) chloride coordination polymer to its bromide/thiocyanate analogs; precursors for the facile fabrication of lead(II) chloride/bromide/sulfide nano-particles (Poster), **5th International Conference on Nanostructures (ICNS5)**, Kish Island, Iran, **2014**
12. Twofold interpenetrated 3D nanoporous metal-organic framework (Poster), **15th Iranian Inorganic Chemistry Conference**, Hakim Sabzevari, Sabzevar, Iran, **2013**
13. Crystal to crystal transformation of nano lead(II) bromide triazole carboxylate coordination polymer to its iodide analog via mechanochemical anion-replacement (Oral), **1st National Congress and Workshop on Nanoscience and Nanotechnology**, Tarbiat Modares University, Tehran, Iran, **2013**
14. Crystal-to-Crystal Transformations of 3D lead(II) triazole carboxylate coordination polymers; precursors for the preparation of lead(II) chloride/bromide/sulfide nanoparticles (Poster), **14th Iranian Inorganic Chemistry Conference**, Sharif University, Tehran, Iran, **2012**
15. Solid-state transformation from a Nano lead(II) bromide triazole carboxylate coordination polymer to its iodide analog via anion-replacement (Oral), **PNUChem10**, Bahonar Kerman University, Kerman, Iran, **2012**
16. No Change in Nano-particles Size and Morphology in the Dynamic Crystal-to-Crystal Transformation of a 3D-3D Coordination Polymer by Solid State Anion-replacement (Poster), **15th Iranian Chemistry Congress**, Bu Ali-Sina University, Hamedan, Iran, **2011**

Research Group:

<http://persianmof.ir/>

Homepage (Persian):

<http://chemistry.iust.ac.ir/content/50366/%D8%B5%D9%81%D8%AD%D9%87-%D8%B4%D8%AE%D8%B5%DB%8C>

Homepage in English:

<http://chemistry.iust.ac.ir/content/49799/Curriculum-Vitae---Vahid-Safarifar>

Google Scholar:

<http://scholar.google.com/citations?user=4riV958AAAAJ&hl=en>

ResearchGate:

https://www.researchgate.net/profile/Vahid_Safarifard

Scopus:

<https://www.scopus.com/authid/detail.uri?authorId=45662029700>

ORCID:

<http://orcid.org/0000-0003-4876-8257>