

Curriculum Vitae

Masoumeh Jafarpour, PhD

Associate Professor of Organic Chemistry

Catalysis Research Laboratory, Department of Chemistry,

University of Birjand, Birjand, Iran

Tel:+98 56 32202065; Fax: +98 56 32202041

mjafarpour@birjand.ac.ir; jafarpouryas@yahoo.com



1. Personal Information

Name: Masoumeh Jafarpour
Date of Birth: 21/03/1972
Place of Birth: Shiraz, Iran
Marital Status: Married, Two Children

2. Educations:

- Ph.D. in Organic Chemistry in Shiraz University, 2000-2005 (Supervisors: Prof. H. Firouzabadi, Prof. N. Iranpoor).
- M.Sc. in Organic Chemistry in Shiraz University, 1997-2000 (Supervisor: Prof. H. Sharghi).
- B.Sc. in Chemistry in Shiraz University, 1992-1996.

3. Academic Experiences

- Chemistry Department, University of Birjand, Birjand, Iran, Associate Professor

4. Research Interests

- ◆ Organic Synthesis ◆ Green Chemistry ◆ Catalytic Chemistry (synthesis and application)
- ◆ Nanotechnology.

5. Courses Taught

- BSc: Organic Chemistry 1, 2, 3; Organic Synthesis (The Disconnection Approach); The application of spectroscopy in organic chemistry
- MSc: Organic synthesis; Heterocyclic compounds
- PhD: Advanced Stereochemistry

6. Honors and Awards:

- Iran Science Elites Federation member (2015)
- Distinguish researcher of University of Birjand (2013)
- Distinguish researcher of University of Birjand (2011)

7. Citation report: <https://scholar.google.com/citations?user=IKhoHqYAAAAJ&hl=en>

8. Selected Publications:

- **M. Jafarpour**, A. Rezaeifard, M. Aliabadi, “An environmentally benign catalytic method for efficient and selective nucleophilic ring opening of oxiranes by zirconium tetrakis(dodecylSulfate)” *Helv. Chim. Acta.* **2010**, *93*, 405-413. **Hottest articles in Green & Sustainable Chemistry:** <http://dmmsclick.wiley.com/view.asp?m=moqhlfd5pxdjljsmgd30&u=11417042&t=0&f=h>
- A. Rezaeifard, **M. Jafarpour**, M. A. Naseri, R. Haddad, “Pronounced catalytic activity of manganese(III) –schiff base complexes in the oxidation of alcohols by tetrabutylammonium peroxomonosulfate” *Helv. Chim. Acta.* **2010**, *93*, 711-717. **Hottest article in catalysis:** <http://dmmsclick.wiley.com/view.asp?m=cm3611dospuqrptaclqa&u=7835097&f=h>
- A. Rezaeifard, **M. Jafarpour**, A. Naeimi, R. Haddad, “Aqueous heterogeneous oxygenation of hydrocarbons and sulfides catalyzed by recoverable magnetite nanoparticles coated with copper(II) phthalocyanine” *Green Chem.* **2012**, *14*, 3386-3394.
- A. Rezaeifard, R. Haddad, **M. Jafarpour**, M. Hakimi. “Catalytic epoxidation activity of keplerate polyoxomolybdate nanoball toward aqueous suspension of olefins under mild aerobic conditions” *J. Am. Chem. Soc.* **2013**, *135*, 10036-10039. **Highlighted in Synfacts 2013, 9, 1129.**
- A. Rezaeifard, **M. Jafarpour**. “Catalytic efficiency of fe-porphyrins supported on multi-walled carbon nanotube in heterogeneous oxidation of hydrocarbons and sulfides in water” *Catal. Sci. Technol.* **2014**, *4*, 1960-1969.

➤ **M. Jafarpour**, A. Rezaeifard, M. Ghahramaninezhad, F. Feizpour, “Dioxomolybdenum(VI) complex immobilized on ascorbic acid coated TiO₂ nanoparticles catalyzed heterogeneous oxidation of olefins and sulfides.” *Green Chem.*, **2015**, 17, 442-452.

➤ **M. Jafarpour**, H. Kargar, A. Rezaeifard, Cobalt Schiff base Complex on TiO₂ Nanoparticles as an Effective Synergistic nanocatalyst for Aerobic C-H Oxidation, *RSC Adv.* **2016**, 6, 25034-25046. **Highlighted in Synfacts 2016, 12 (06), 0652.**

9. Visiting Scientist:

Institut für Organische Chemie, Albert-Ludwigs-Universität Freiburg: Freiburg im Breisgau (Germany), in research collaboration with Prof. Dr. Bernhard Breit (April-November 2018).

10. List of Publications:

1. H. Firouzabadi, N. Iranpoor, **M. Jafarpour**. “A simple and efficient method for iodination of alcohols using ZrCl₄/NaI system with high selectivity”. *Tetrahedron Lett.* **2004**, 45, 7451-7454.

2. H. Firouzabadi, N. Iranpoor, **M. Jafarpour**. “Rapid, highly efficient and stereoselective deoxygenation of epoxides by ZrCl₄/NaI”. *Tetrahedron Lett.* **2005**, 46, 4107-4110.

3. H. Firouzabadi, N. Iranpoor, **M. Jafarpour**. “ZrCl₄/NaI and ZrOCl₂.8H₂O/NaI as effective systems for reductive coupling of sulfonyl chlorides and chemoselective deoxygenation of sulfoxides”. *J. Sulfur. Chem.* **2005**, 26, 313-324.

4. H. Firouzabadi, N. Iranpoor, **M. Jafarpour**. “ZrCl₄ dispersed on dry silica gel provides a useful reagent for S-alkylation of thiols with alcohols under solvent-free conditions”. *Tetrahedron Lett.* **2006**, 47, 93-97.

5. H. Firouzabadi, N. Iranpoor, **M. Jafarpour**, A. Ghaderi. "ZrOCl₂·8H₂O as a highly efficient and the moisture tolerant Lewis acid catalyst for Michael addition of amines and indoles to α, β-unsaturated ketones under solvent-free conditions". *J. Mol.Catal. A.* **2006**, 252, 150-155.
6. H. Firouzabadi, N. Iranpoor, **M. Jafarpour**, A. Ghaderi. "Silica gel catalyzed highly selective C-S bond formation via michael addition of thiols to α,β-unsaturated ketones under solvent-free conditions". *J. Mol.Catal. A.* **2006**, 249, 98-102.
7. H. Firouzabadi, N. Iranpoor, **M. Jafarpour**, A. Ghaderi. "ZrOCl₂·8H₂O/silica gel as a new efficient and a highly water-tolerant catalyst system for facile condensation of indoles with carbonyl compounds under solvent-free conditions". *J. Mol.Catal. A.* **2006**, 253, 249-251.
8. H. Firouzabadi, **M. Jafarpour**. "Some applications of zirconium(IV) tetrachloride (ZrCl₄) and zirconium(IV) oxydichloride octahydrate (ZrOCl₂·8H₂O) as catalysts or reagents in organic synthesis". (Review). *J. Iran. Chem. Soc.* **2008**, 5, 159-183.
9. A. Rezaeifard, **M. Jafarpour**, Gh. Kardan Moghaddam, F. Amini, "Cytochrome P-450 model reactions: Efficient and highly selective oxidation of alcohols with tetrabutylammonium peroxy monosulfate catalyzed by Mn-porphyrins". *Bioorg. Med. Chem.* **2007**, 15, 3097-3101.
10. A. Rezaeifard, **M. Jafarpour**, M. A. Naseri, R. Shariati, "A rapid and easy method for the synthesis of azoxy arenes using tetrabutylammonium peroxy monosulfate" *Dyes Pigments* **2008**, 76, 840-843.
11. **M. Jafarpour**, A. Rezaeifard, M. Aliabadi, "Zirconium tetrakis(dodecylsulfate) as an efficient and recyclable Lewis acid-surfactant-combined catalyzed C-C and C-N bond forming under mild and environmentally benign conditions" *Lett. Org. Chem.* **2009**, 6, 94-99.
12. A. Rezaeifard, **M. Jafarpour**, S. Rayati, R. Shariati, "The catalytic performance of Mn-tetraarylporphyrins in the highly selective oxidation of primary aromatic amines to azo compounds by Bu₄NHSO₅" *Dyes Pigments* **2009**, 80, 80-85.

13. **M. Jafarpour**, A. Rezaeifard, M. Aliabadi, "Catalytic activity of silica gel in the synthesis of sulfonamides under mild and solvent-free conditions" *Appl. Catal. A: Gen.* **2009**, 358, 49-53.
14. **M. Jafarpour**, A. Rezaeifard, T. Golshani, "A new catalytic method for eco-friendly synthesis of bis- and tris indolylmethanes by zirconyl dodecylsulfate under mild conditions" *J. Heterocycl. Chem.* **2009**, 46,535-539.
15. **M. Jafarpour**, A. Rezaeifard, M. Aliabadi, "An environmentally benign catalytic method for efficient and selective nucleophilic ring opening of oxiranes by zirconium tetrakis(dodecylSulfate)" *Helv. Chim. Acta.* **2010**, 93, 405-413.
16. A. Rezaeifard, **M. Jafarpour**, M. A. Naseri, R. Haddad, "Pronounced catalytic activity of manganese(III) –schiff base complexes in the oxidation of alcohols by tetrabutylammonium peroxomonosulfate" *Helv. Chim. Acta.* **2010**, 93, 711-717.
17. **M. Jafarpour**, A. Rezaeifard, M. Danehchin, "Easy access to quinoxaline derivatives using alumina as an effective and reusable catalyst under solvent-free conditions" *Appl. Catal. A: Gen.* **2011**, 394, 48-51.
18. A. Rezaeifard, **M. Jafarpour**, A. Naeimi. "A practical innovative method for highly selective oxidation of alcohols in neat water using water-insoluble iron and manganese porphyrins as reusable heterogeneous catalysts" *Catal. Commun.* **2011**, 16, 240-244.
19. A. Rezaeifard, **M. Jafarpour**, A. Naeimi, S. Kaafi. "A novel strategy for clean and selective oxygenation of hydrocarbons with n-Bu₄NHSO₅ in neat water catalyzed by recyclable water-insoluble iron (III) tetraphenylporphyrins" *Catal. Commun.* **2011**, 12,761-765.
20. **M. Jafarpour**, A. Rezaeifard, Gh. Gorzin. "Enhanced catalytic activity of Zr(IV) complex with simple tetradentate schiff base ligand in the clean synthesis of indole derivatives" *Inorg. Chem. Commun.* **2011**, 14, 1732-1736.
21. **M. Jafarpour**, A. Rezaeifard, M. Heidari. "A new catalytic method for eco-friendly Synthesis of quinoxalines by zirconium (IV) oxide chloride octahydrate under mild conditions" *Lett. Org. Chem.* **2011**, 8, 202-209.
22. **M. Jafarpour**, A. Rezaeifard, M. Heidari, "Efficient organic transformations mediated by ZrOCl₂·8H₂O in water" *Phosphorus, Sulfur, and Silicon.* **2011**, 186, 1470-1482.

- 23. M. Jafarpour**, A. Rezaeifard, T. Golshani. "A green, catalyst-free method for the synthesis of sulfonamides and sulfonylazides". *Phosphorus, Sulfur Silicon Relat. Elem.* **2011**, *186*, 140-148.
- 24.** A. Rezaeifard, **M. Jafarpour**, H. Kavousi, M. Alipour, H. Stoeckli-Evans. "Benzyltributylammonium periodate as a novel and safe oxygen source for Mn-porphyrin catalyzed practical and highly selective oxygenation of hydrocarbons" *Polyhedron* **2011**, *30*, 2303-2309.
- 25.** A. Rezaeifard, **M. Jafarpour**, H. Raissi, E. Ghiamati, A. Tootoonchi. "Factors affecting the reactivity and selectivity in the oxidation of sulfides with tetra-n -butylammonium peroxomonosulfate catalyzed by Mn(III) porphyrins: Significant nitrogen donor effects" *Polyhedron*. **2011**, *30*, 592-598.
- 26. M. Jafarpour**, A. Rezaeifard, S. Gazkar, M. Danehchin. "Catalytic activity of a zirconium(IV) Schiff base complex in facile and highly efficient synthesis of indole derivatives" *Transition Met. Chem.* **2011**, *36*, 685-690.
- 27.** A. Rezaeifard, **M. Jafarpour**, P. Farshid, A. Naeimi "Nanomagnet-supported partially brominated manganese-porphyrin as a promising catalyst for the selective heterogeneous oxidation of hydrocarbons and sulfides in water" *Eur. J. Inorg. Chem.* **2012**, 5515-5524.
- 28.** A. Rezaeifard, **M. Jafarpour**, A. Naeimi, R. Haddad, "Aqueous heterogeneous oxygenation of hydrocarbons and sulfides catalyzed by recoverable magnetite nanoparticles coated with copper(II) phthalocyanine" *Green Chem.* **2012**, *14*, 3386-3394.
- 29.** A. Rezaeifard, **M. Jafarpour**, A. Naeimi, M. Salimi. "Efficient and highly selective aqueous oxidation of alcohols and sulfides catalyzed by reusable hydrophobic copper (II) phthalocyanine" *Inorg. Chem. Commun.* **2012**, *15*, 230-234.
- 30.** A. Rezaeifard, **M. Jafarpour**, A. Naeimi, Kh. Mohammadi "Highly selective aqueous heterogeneous oxygenation of hydrocarbons catalyzed by recyclable hydrophobic copper (II) phthalocyanine nanoparticles" *J. Mol. Catal. A: Chem.* **2012**, *357*, 141-147.

31. A. Rezaeifard, **M. Jafarpour**, H. Raissi, M. Alipour, H. Stoeckli-Evans. "Economical oxygenation of olefins and sulfides catalyzed by new molybdenum(VI) tridentate schiff base complexes: synthesis and crystal Structure" *Z. Anorg. Allg. Chem.* **2012**, 638, 1023-1030.
32. A. Rezaeifard, V. Soltani, **M. Jafarpour**. "Nanoaggregates of simple Mn porphyrin complexes as catalysts for the selective oxidation of hydrocarbons" *Eur. J. Inorg. Chem.* **2013**, 2657-2664.
33. A. Rezaeifard, R. Haddad, **M. Jafarpour**, M. Hakimi. "Catalytic epoxidation activity of keplerate polyoxomolybdate nanoball toward aqueous suspension of olefins under mild aerobic conditions" *J. Am. Chem. Soc.* **2013**, 135, 10036-10039. **Highlighted in Synfacts 2013; 9(10): 1129.**
34. **M. Jafarpour**, A. Rezaeifard, M. Ghahramaninezhad, T. Tabibi. "Reusable α -MoO₃ nanobelts catalyzes the green and heterogeneous condensation of 1,2-diamines with carbonyl compounds" *New J. Chem.* **2013**, 37, 2087-2095.
35. **M. Jafarpour**, A. Rezaeifard, R. Haddad, S. Gazkar. "A reusable zirconium(IV) schiff base complex catalyzes highly efficient synthesis of quinoxalines under mild conditions" *Transition Met Chem.* **2013**, 38, 31-36.
36. A. Rezaeifard, R. Haddad, **M. Jafarpour**, M. Hakimi. "{Mo₁₃₂} Nanoball as an efficient and cost-effective catalyst for sustainable oxidation of sulfides and olefins with hydrogen Peroxide" *ACS Sustainable Chem. Eng* **2014**, 2, 942-950.
37. A. Rezaeifard, **M. Jafarpour**. "Catalytic efficiency of fe-porphyrins supported on multi-walled carbon nanotube in heterogeneous oxidation of hydrocarbons and sulfides in water" *Catal. Sci. Technol.* **2014**, 4, 1960-1969.
38. **M. Jafarpour**, M. Ghahramaninezhad, A. Rezaeifard. "Synthesis, characterization and catalytic activity of oleic acid-coated TiO₂ nanoparticles carrying MoO₂(acac)₂ in the oxidation of olefins and sulfides using economical peroxides" *New J. Chem.* **2014**, 38, 2917-2926.

39. **M. Jafarpour**, E. Rezapour, M. Ghahramaninezhad, A. Rezaeifard “A novel protocol for selective synthesis of monoclinic zirconia nanoparticles as a heterogeneous catalyst for condensation of 1,2-diamines with 1,2-dicarbonyl compounds” *New J. Chem.* **2014**, 38, 676--682.
40. A. Rezaeifard, P. Farshid , **M. Jafarpour**, Gh. Kardan Moghaddam. “Silica-coated magnetite nanoparticles stabilized simple Mn-tetraphenylporphyrin for aqueous phase catalytic oxidations with tert -butylhydroperoxide” *RSC Adv* **2014**, 4, 9189-9196.
41. **M. Jafarpour**, M. Ghahramaninezhad, A. Rezaeifard “Catalytic activity and selectivity of reusable α -MoO₃ nanobelts toward oxidation of olefins and sulfides using economical peroxides”. *RSC Adv.* **2014**, 4, 1601-1608.
42. **M. Jafarpour**, Gh. Gorzin, A. Rezaeifard. “Green condensation of various 1,2-diamine and 1,2- dicarbonyl compounds catalyzed by reusable zirconium (IV) tetradentate schiff base complex” *Current Catalysis.* **2014**, 3, 260 - 265.
43. **M. Jafarpour**, A. Rezaeifard, M. Ghahramaninezhad, F. Feizpour, “ Dioxomolybdenum(VI) complex immobilized on ascorbic acid coated TiO₂ nanoparticles catalyzed heterogeneous oxidation of olefins and sulfides.” *Green Chem.*, **2015**, 17, 442-452.
44. A. Rezaeifard, **M. Jafarpour**, Reza Haddad, A. Farrokhi. “A Selective and Sustainable Sulfoxidation Method Catalyzed by Reusable Manganese (III) Schiff Base Complexes” *Current Catalysis*, **2015**, 4, 4-11.
45. H. Kavousi, **A. Rezaeifard**, H. Raissi, M. Jafarpour, “A DFT investigation of axial N-donor ligands effects on the high valent manganese-oxo *meso*-tetraphenyl porphyrin”, *J. Porphyrins and Phthalocyanines* **2015**, 19, 651-662.
46. **M. Jafarpour**, A. Rezaeifard, V. Yasinzadeh, H. Kargar, “Starch-coated maghemite nanoparticles functionalized by a novel cobalt Schiff base complex catalyzes selective aerobic benzylic C–H oxidation” *RSC Adv.* **2015**, 5, 38460-38469.
47. A. Rezaeifard, **M. Jafarpour**, Reza Haddad, H. Tavallaei, M. Hakimi, “Clean and Heterogeneous Condensation of 1, 2-Diamines with 1, 2-Dicarbonyls Catalyzed by {Mo₁₃₂} Giant Ball Nanocluster” *J. Cluster Science*, 2015, 26, 1439-1450.

48. H. Kavousi, A. Rezaeifard, H. Raissi, **M. Jafarpour**, Stereoelectronic effects of porphyrin ligand on the oxygen transfer efficiency of high valent manganese-oxo porphyrin species: A DFT study, *J. Porphyrins and Phthalocyanines* **2015**, *19*, 1130-1139.
49. A. Rezaeifard, H. Kavousi, H. Raissi, **M. Jafarpour**, Significant hydrogen-bonding effect on the reactivity of high-valent manganese(V)-oxo porphyrins in C–H bond activation: A DFT study; *J. Porphyrins and Phthalocyanines* **2015**, *19*, 1197-1203.
50. A. Rezaeifard, **M. Jafarpour** A zirconium Schiff base complex immobilized on starch-coated maghemite nanoparticles catalyzes heterogeneous condensation of 1,2-diamines with 1,2-dicarbonyl compounds;, *Transition Met Chem* **2016**, *41*, 205–211.
51. **M. Jafarpour**, H. Kargar, A. Rezaeifard, Cobalt Schiff base Complex on TiO₂ Nanoparticles as an Effective Synergistic nanocatalyst for Aerobic C-H Oxidation, *RSC Adv.* **2016**, *6*, 25034-25046. **Highlighted in Synfacts 2016; 12 (06), 0652.**
52. **M. Jafarpour**, F. Feizpour, A. Rezaeifard, Aerobic benzylic C–H oxidation catalyzed by a titania-based organic–inorganic nanohybrid, *RSC Adv.* **2016**, *6*, 54649-54660.
53. M. Jafarpour, H. Kargar and A. Rezaeifard, “A synergistic effect of a cobalt Schiff base complex and TiO₂ nanoparticles on aerobic olefin epoxidation” *RSC Adv.*, **2016**, *6*, 79085-79089.
54. A. Rezaeifard, **M. Jafarpour**, A. Farrokhi, S. Parvin, F. Feizpour, “Enhanced aqueous oxidation activity and durability of simple manganese(III) salen complex axially anchored to maghemite nanoparticles”, *RSC Adv.*, **2016**, *6*, 64640-64650.
55. **M. Jafarpour**, F. Feizpour, A. Rezaeifard, Aerobic Stereoselective Oxidation of Olefins on a Visible-Light-Irradiated Titanium Dioxide–Cobalt–Ascorbic Acid Nanohybrid, *Synlett*, 2017, *28*, 235-238. **Highlighted in Synfacts 2017; 13(04), 433.**
56. **M. Jafarpour**, F. Feizpour, A. Rezaeifard, Iron Ascorbic Acid Complex Coated TiO₂ Nanoparticles Enhancing Visible-Light Oxidation Performance, *ChemistrySelect* **2017**, *2*, 2901 – 2909.

57. A. Rezaeifard, **M. Jafarpour**, R. Haddad, F. Feizpour, $\{Mo_{72}Cr_{30}\}$ nanocluster as a novel self-separating catalyst for hydrogen peroxide olefin epoxidation, *Catal. Commun.*, **2017**, *95*, 88-91.
58. A. Rezaeifard, A. Khoshyan, **M. Jafarpour** and M. Pourtahmasb, Selective aerobic benzylic C–H oxidation co-catalyzed by *N*-hydroxyphthalimide and Keplerate $\{Mo_{72}V_{30}\}$ nanocluster, *RSC Adv.*, **2017**, *7*, 15754-15761.
59. A. Farrokhi, **M. Jafarpour**, R. Najafzade, Phosphonate-based Metal Organic Frameworks as Robust Heterogeneous Catalysts for TBHP Oxidation of Benzylic Alcohols, *Catal. Lett.*, **2017**, *147*, 1714-1721.
60. F. Feizpour, **M. Jafarpour**, A. Rezaeifard, "A tandem aerobic photocatalytic synthesis of benzimidazoles by cobalt ascorbic acid complex coated on TiO_2 nanoparticles under visible light condition" *Catal. Lett.*, **2018**, *148*, 30-40.
61. A. Khoshyan, M. Pourtahmasb, F. Feizpour, **M. Jafarpour**, A. Rezaeifard, Aerobic $\{Mo_{72}V_{30}\}$ nanocluster-catalysed heterogeneous one-pot tandem synthesis of benzimidazoles, *Appl. Organomet. Chem.*, **2019**, *33*, e4638-e4646.
62. E. Rezapour, M. Jafarpour, A. Rezaeifard, Palladium Niacin Complex Immobilized on Starch-Coated Maghemite Nanoparticles as an Efficient Homo-and Cross-coupling Catalyst for the Synthesis of Symmetrical and Unsymmetrical Biaryls, *Catal. Lett.*, **2018**, *148*, 3165-3177.
63. M. R. Tahan, M. Jafarpour, F. Feizpour, A. Rezaeifard, Maghemite Nanoparticles Supported Saffron: An Efficient and Green Catalyst for Synthesis of Quinoxaline Derivatives, *J. Saffron Research*, **2018**, *6*, 115-126.
64. F. Feizpour, M. Jafarpour, A. Rezaeifard, M. Pourtahmasb, An Efficient and Green Synthesis of Quinoxaline and Pyridopyrazine Derivatives Using Maghemite Nanoparticles Supported Ascorbic Acid, *Nanomeghyas*, **2018**, *5*, 107-117.

65. R. Hasanpour, F. Feizpour, **M. Jafarpour**, A. Rezaeifard Nickel (ii) riboflavin complex as an efficient nanobiocatalyst for heterogeneous and sustainable oxidation of benzylic alcohols and sulfides – *New J. Chemistry*, 2018, 42, 7383-7391.
66. A. Eskandari, **M. Jafarpour**, A. Rezaeifard, M. Salimi, A dendritic TiO₂-Co (ii) nanocomposite based on the melamine catalyzed one-pot aerobic photocatalytic synthesis of benzimidazoles *New J. Chemistry*, 2018, 42, 6449-6456.
67. H Kavousi, A Rezaeifard, H Raeisi, **M. Jafarpour** - Screening of different interactions in oxo-manganese porphyrin dimers containing axial N-donor ligands: a theoretical study *RSC Advances*, 2018, 8, 9770-9774.
68. R. Mokhtari, A. Rezaeifard, **M. Jafarpour**, A. Farrokhi, Visible-light driven catalase-like activity of blackberry-shaped {Mo₇₂Fe₃₀} nanovesicles: combined kinetic and mechanistic studies, - *Catal. Sci. Tech.*, 2018, 8, 4645-4656.
69. F. Feizpour, **M. Jafarpour**, A. Rezaeifard, “A photoinduced cross-dehydrogenative-coupling (CDC) reaction between aldehydes and N-hydroxyimides by a TiO₂-Co ascorbic acid nanohybrid under visible light irradiation” *New J. Chem.*, 2018, 42, 807-811.
70. A. Farrokhi, **M. Jafarpour**, F. Feizpour, Magnetic Bisphosphonic Acid Nanohybrid Catalyzed Heterogeneous Synthesis of Heterocycles, *ChemistrySelect*, 2018, 3, 1234-1241.
71. H. Tavallaei, **M. Jafarpour**, F. Feizpour, A. Rezaeifard, A. Farrokhi, A cooperative effect in a novel bimetallic Mo-V nanocomplex catalyzed selective aerobic C-H Oxidation, : *ACS Omega*, 2019, 4, 3601-3610.

10. Conferences

1. A. Rezaeifard, **M. Jafarpour**, R. Shariati. “ Biomimetic oxidation of amines using tetrabutylammonium peroxymonosulfate catalyzed by Mn-porphyrins” *9th Iranian Inorganic Chemistry Conference* , Semnan, Iran, 7-8 March 2007.
2. A. Rezaeifard, **M. Jafarpour**, Gh. Kardan Moghaddam, F. Amini.” Cytochrome P-450 model reactions: Electronic and structural effects in the oxidation of alcohols using tetrabutylammonium peroxymonosulfate catalyzed by Mn-porphyrins.” *9th Iranian Inorganic Chemistry Conference* , Semnan, Iran, 7-8 March 2007.
3. A. Rezaeifard, **M. Jafarpour**, A, Tootoonchi. “Comparative study of catalytic activity of Mn-Porphyrins in biomimetic oxidation of sulfides using Bu₄NHSO₅.” *International Catalysis Conference*, Tehran, Iran, 28-30 April 2008.
4. A. Rezaeifard, **M. Jafarpour**, A, Tootoonchi, “ Factors controlling the selectivity of biomimetic oxidation of thioethers using Bu₄NHSO₅ catalyzed by Mn-porphyrins” *10th Iranian Inorganic Chemistry Conference* , Zahedan, Iran, 14-15 May 2008.
5. A. Rezaeifard, **M. Jafarpour**, M, Laali, “ Spectrophotometric study of factors affecting stability of Mn-Porphyrins during the catalytic oxidation of organic compounds by peroxymonosulfate” *10th Iranian Inorganic Chemistry Conference* , Zahedan, Iran, 14-15 May 2008.
6. R. Haddad, A. Rezaeifard, **M. Jafarpour**, “ Electronic and Steric Effects on the Reactivity of Mn(III) Salens Catalyzed Oxidation of Alcohols with Peroxomonosulfate” *12th Iranian Inorganic Chemistry Conference* , Rasht, Iran, 15-16 September 2010.
7. S. Kafi, A. Rezaeifard, **M. Jafarpour**, “Catalytic Activity of β -Halogenated Mn-Porphyrins in the Oxidation of Alcohols using Tetrabutylammonium Peroxomonosulfate” *12th Iranian Inorganic Chemistry Conference* , Rasht, Iran, 15-16 September 2010.
8. M. Alipour, A. Rezaeifard, **M. Jafarpour**, Helen Stoeckli-Evans, “Structure and Reactivity of a Novel Twin μ -Oxo Bridge Vanadium Schiff base Complex ” *12th Iranian Inorganic Chemistry Conference* , Rasht, Iran, 15-16 September 2010.

9. A. Naeimi, A. Rezaeifard, **M. Jafarpour**, Helen Stoeckli-Evans, “Mechanistic and Spectroscopic Evidences for Multiple Active Oxidants in Mn(III) Porphyrins Catalyzed Oxidation Reactions with Peroxomonosulfate” *12th Iranian Inorganic Chemistry Conference* , Rasht, Iran, 15-16 September 2010.
10. A. Rezaeifard, **M. Jafarpour**, A. Naeimi, H. Kavousi, “Synthesis and characterization of Benzyltributylammonium Periodate” *The 14th Symposium of Crystallography and Mineralogy of Iran*, Gorgan, Iran, 2011.
11. A. Rezaeifard, **M. Jafarpour**, A. Naeimi, M. Alipour, “Synthesis and characterization of novel *cis*-dioxo-Molybdenum (VI) tridentate Schiff base complex” *The 14th Symposium of Crystallography and Mineralogy of Iran*, Gorgan, Iran, 2011.
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11. Postdoctoral researcher

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1. **M. Jafarpour**, A. Rezaeifard, F. Amini,

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2. **M. Jafarpour**, A. Rezaeifard, R. Shariati,

"اکسایش انتخابی آمینها به ترکیبات آروکسی به وسیله تترابوتیل آمونیوم پروکسی مونو سولفات"

3. **M. Jafarpour**, A. Rezaeifard, M. Aliabadi,

"واکنشهای نوکلئوفیلی کاتالیز شده به وسیله زیرکونیوم تتراکسید سولفات به عنوان یک اسید لوئیس ترکیب شده با سورفکتانت در محیط آبی" 87/9/23

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18.M. Jafarpour, A. Rezaeifard, M. Hakimi, R. Haddad (PhD) ,

"خواص کاتالیزوری نانو پلی اکسو متال های درشت مولکول" 92/11/30

19. **M. Jafarpour**, A. Rezaeifard, M. Ghahramaninezhad (PhD) ,

"سنتر، شناسایی و کاربردهای کاتالیزوری نانو اکسیدهای فلزی و ترکیبات آنها" 93/2/24

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"سنتر شناسایی و فعالیت کاتالیزوری نانو کمپلکس های مولیبدن و وانادیم" 93/10/24

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"مطالعه عوامل موثر بر اکسایش شبه حیاتی سولفیدها به وسیله تترا بوتیل آمونیوم پروکسی مونو سولفات کاتالیز شده به وسیله منگنز پورفیرینها" 87/9/18

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3. A. Rezaeifard, **M. Jafarpour**, R. Haddad,

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7. A. Rezaeifard, **M. Jafarpour**, A. Naeimi (PhD) ,

"مطالعه واکنشهای شبه حیاتی در محیط آبی کاتالیز شده بوسیله کمپلکسهای فلزات واسطه به صورت آزاد و تثبیت شده بر بسترهای توده ای و نانو ساختاری" 90/12/11

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