Saeed Zakavi

List of Publications by Citations

69 papers	933 citations	18 h-index	25 g-index
70 ext. papers	1,033 ext. citations	3.4 avg, IF	4.68 L-index

#	Paper	IF	Citations
69	Electron-rich salen-type Schiff base complexes of Cu(II) as catalysts for oxidation of cyclooctene and styrene with tert-butylhydroperoxide: A comparison with electron-deficient ones. *Inorganic Chemistry Communication*, **2010**, 13, 203-207	3.1	61
68	Interaction of para-substituted meso-tetraphenylporphyrins and meso-tetra(n-propyl)porphyrin with weak and strong carboxylic acids: A UV□is spectroscopic study. *Polyhedron*, **2007**, 26, 2425-2432	2.7	39
67	Catalytic activity of carbon nanotube supported iron(III) and manganese(III) porphyrins in oxidation of olefins with tert-butyl hydroperoxide: Higher activity of the iron(III) porphyrin. *Inorganic Chemistry Communication*, **2013**, 29, 40-44	3.1	36
66	Chemoselective oxidation of sulfides to sulfoxides with urea hydrogen peroxide (UHP) catalyzed by non-, partially and fully □brominated meso-tetraphenylporphyrinatomanganese(III) acetate. *Inorganic Chemistry Communication*, **2014**, 40, 82-86	3.1	35
65	Unique 1:2 adduct formation of meso-tetraarylporphyrins and meso-tetraalkylporphyrins with BF3: a spectroscopic and ab initio study. *New Journal of Chemistry*, **2004**, 28, 1600-1607	3.6	34
64	Highly efficient oxidation of sulfides to sulfones with tetra-n-butylammonium hydrogen monopersulfate catalyzed by □tri- and tetra-brominated meso-tetraphenylporphyrinatomanganese(III) acetate. *Applied Catalysis A: General*, **2009**, 353, 154-159	5.1	33
63	Electrochemical fabrication of conducting polymer of Ni-porphyrin as nano-structured electrocatalyst for hydrazine oxidation. *Sensors and Actuators B: Chemical*, **2015**, 210, 343-348	8.5	28
62	Substitution effects on the UV□is and 1H NMR spectra of the dications of meso and/or □ substituted porphyrins with trifluoroacetic acid: Electron-deficient porphyrins compared to the electron-rich ones. *Inorganic Chemistry Communication*, **2011**, 14, 1827-1832	3.1	28
61	□Tetra-brominated meso-tetraphenylporphyrin: A conformational study and application to the Mn-porphyrin catalyzed epoxidation of olefins with tetrabutylammonium oxone. *Polyhedron*, **2008**, 27, 2285-2290	2.7	28
60	The absorption and fluorescence emission spectra of meso-tetra(aryl)porphyrin dications with weak and strong carboxylic acids: a comparative study. *RSC Advances*, **2015**, 5, 106774-106786	3.7	27
59	Comparative study of catalytic activity of some biomimetic models of cytochrome P450 in oxidation of olefins with tetra-n-butylammonium periodate: Electron-rich Mn-porphyrins versus the electron-deficient ones. *Inorganic Chemistry Communication*, **2011**, 14, 1010-1013	3.1	26
58	Metalloporphyrin-Catalyzed Chemoselective Oxidation of Sulfides with Polyvinylpyrrolidone-Supported Hydrogen Peroxide: Simple Catalytic System for Selective Oxidation of Sulfides to Sulfoxides. *Bulletin of the Korean Chemical Society*, **2012**, 33, 35-38	1.2	26
57	Saddle-shaped porphyrins for dye-sensitized solar cells: new insight into the relationship between nonplanarity and photovoltaic properties. *Physical Chemistry Chemical Physics*, **2015**, 17, 6347-58	3.6	25
56	Comparative study of the catalytic activity of a series of □brominated Mn□porphyrins in the oxidation of olefins and organic sulfides: Better catalytic performance of the partially brominated ones. *Polyhedron*, **2012**, 34, 102-107	2.7	23
55	Substituent effects on the catalytic activity of a series of manganese meso-tetra(aryl)porphyrins: (2-, 3-, 4)-Pyridyl, 4-sulfonatophenyl and 3-sulfonato-4-methoxyphenyl groups compared to phenyl and 4-methoxyphenyl ones. *Journal of Molecular Catalysis A*, **2012**, 363-364, 153-158		21
54	Electron-deficient Mn(III)-porphyrin catalyzed oxidation of hydrocarbons with tetra-n-butylammonium hydrogen monopersulfate: Effect of counter ions and nitrogen donors. *Catalysis Communications*, **2008**, 10, 221-226	3.2	21
53	A novel porphyrinic photosensitizer based on the molecular complex of meso-tetraphenylporphyrin with 2,3-dichloro-5,6-dicyano-1,4-benzoquinone: higher photocatalytic activity, photooxidative stability and solubility in non-chlorinated solvents. *RSC Advances*, **2016**, 6, 100931-100938	3.7	20

52	Core protonation of meso-tetraphenylporphyrin with tetrafluoroboric acid: unusual water-mediated hydrogen bonding of H4tpp2+ to the counterion. *Tetrahedron Letters*, **2008**, 49, 664-667	2	19
51	Stereoelectronic effects of the meso-substituents on the catalytic performance of iron(III) meso-tetraarylporphyrins: Pyridyl and N-methylated pyridyl groups compared to phenyl, 4-methoxyphenyl and 4-sulfonatophenyl ones. *Journal of Molecular Catalysis A*, **2013**, 367, 108-115		18
50	Substitution effects on the catalytic activity of Mn(III)-porphyrins in epoxidation of alkenes with iodosylbenzene: A comparison between the electron-rich and electron-deficient porphyrins. *Polyhedron*, **2011**, 30, 1732-1738	2.7	18
49	Simple low cost porphyrinic photosensitizers for large scale chemoselective oxidation of sulfides to sulfoxides under green conditions: targeted protonation of porphyrins. *Catalysis Science and Technology*, **2018**, 8, 768-781	5.5	18
48	Catalytic activity of Mn(III) and Fe(III) complexes of meso-tetra(n-propyl)porphyrin in oxidation of olefins: Meso-alkyl substituent in comparison with the alkenyl and aryl ones. *Polyhedron*, **2012**, 31, 368-372	2.7	16
47	Manganese meso-tetra-4-carboxyphenylporphyrin immobilized on MCM-41 as catalyst for oxidation of olefins with different oxygen donors in stoichiometric conditions. *Journal of Porphyrins and Phthalocyanines*, **2012**, 16, 260-266	1.8	16
46	Unusual near-white electroluminescence of light emitting diodes based on saddle-shaped porphyrins. *Dalton Transactions*, **2015**, 44, 8364-8	4.3	15
45	Electrochemical study of the dication of porphyrins with carboxylic acids: Shift of the absorption bands compared to that of the redox potentials. *Inorganic Chemistry Communication*, **2012**, 22, 48-53	3.1	15
44	The first solid state porphyrin-weak acid molecular complex: A novel metal free, nanosized and porous photocatalyst for large scale aerobic oxidations in water. *Journal of Catalysis*, **2018**, 364, 394-405	7.3	14
43	Novel metal free porphyrinic photosensitizers supported on solvent-induced Amberlyst-15 nanoparticles with a porous structure. *New Journal of Chemistry*, **2017**, 41, 5012-5020	3.6	13
42	Sodium borohydride reduction of aldehydes catalyzed by an oxovanadium(IV) Schiff base complex encapsulated in the nanocavity of zeolite-Y. *Inorganic Chemistry Communication*, **2015**, 54, 38-40	3.1	13
41	Meso-tetraarylporphyrin catalyzed highly regioselective ring opening of epoxides with acetic acid. *Catalysis Communications*, **2009**, 10, 388-390	3.2	13
40	Hydrogen bond controlled adduct formation of meso-tetra(4-sulfonatophenyl)porphyrin with protic acids: a UV-vis spectroscopic study. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2010**, 77, 994-7	4.4	13
39	Oxidative Decarboxylation of Carboxylic Acids with Tetrabutylammonium Periodate Catalyzed by Manganese (III) Meso-Tetraarylporphyrins: Effect of Metals, Meso-Substituents, and Anionic Axial Ligands. *Chinese Journal of Catalysis*, **2007**, 28, 940-946	11.3	13
38	New insights into the influence of weak and strong acids on the oxidative stability and photocatalytic activity of porphyrins. *New Journal of Chemistry*, **2017**, 41, 11053-11059	3.6	12
37	Meso-tetracinnamylporphyrin: Synthesis, characterization and the catalytic activity of its Mn(III) complex in olefin epoxidation with tetra-n-butylammonium hydrogen monopersulfate. *Polyhedron*, **2010**, 29, 1492-1496	2.7	12
36	Photocatalytic Activity of the Molecular Complexes of meso-Tetraarylporphyrins with Lewis Acids for the Oxidation of Olefins: Significant Effects of Lewis Acids and meso Substituents. *European Journal of Inorganic Chemistry*, **2017**, 2017, 2854-2862	2.3	11
35	Kinetics and mechanistic studies on the formation and reactivity of high valent MnO porphyrin species: mono-ortho or para-substituted porphyrins versus a di-ortho-substituted one. *New Journal of Chemistry*, **2018**, 42, 1806-1815	3.6	11

34	Factors influencing the catalytic activity of tetrabrominated meso-tetra(para-tolyl)porphyrinatomanganese(III) for oxidation of sulfides and olefins with Oxone. *Journal of Porphyrins and Phthalocyanines*, **2011**, 15, 131-139	1.8	11
33	Kinetic and mechanistic aspects of solid state, nanostructured porphyrin diacid photosensitizers in photooxidation of sulfides. *Catalysis Science and Technology*, **2019**, 9, 1260-1272	5.5	10
32	Facile Purification of meso-Tetra(pyridyl)porphyrins and Detection of Unreacted Porphyrin upon Metallation of meso-Tetra(aryl) porphyrins. *Macroheterocycles*, **2012**, 5, 67-71	2.2	10
31	Substrate-dependent order of catalytic activity for a series of Fe(III) and Mn(III) porphyrins in the oxidation of organic sulfides and olefins with periodate. *Journal of the Iranian Chemical Society*, **2015**, 12, 863-872	2	9
30	The influence of protonation on the structure and spectral properties of porphine: UV-vis, 1H NMR and ab initio studies. *RSC Advances*, **2016**, 6, 82219-82226	3.7	9
29	Porphine core saddling: Effects on the HOMO/LUMO gap and the macrocycle bond lengths and bond angles. *Polyhedron*, **2013**, 49, 36-40	2.7	8
28	A UV-vis spectroscopic study of 1:2 adduct formation of some free-base meso-tetraaryl- and meso-tetraalkylporphyrins with PhSnCl3 and (CH3)2SnCl2. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2008**, 69, 998-1003	4.4	8
27	Computational and experimental insights into the oxidative stability of iron porphyrins: A mono-ortho-substituted iron porphyrin with unusually high oxidative stability. *Journal of Physical Organic Chemistry*, **2018**, 31, e3869	2.1	6
26	Optical properties of brominated meso-tetraphenylporphyrins: Comparative experimental and computational studies. *Journal of Porphyrins and Phthalocyanines*, **2018**, 22, 646-657	1.8	6
25	Effects of bromine substitution and core protonation on photosensitizing properties of porphyrins: Long wavelength photosensitizers. *Journal of Catalysis*, **2019**, 380, 236-246	7.3	6
24	Solvent Tuning of the Optical Absorption and Fluorescence Properties of Mesotetra(aryl)porphyrins and Their Dications With Weak and Strong Carboxylic Acids. *ChemistrySelect*, **2016**, 1, 6448-6459	1.8	6
23	A comparative study on the catalytic performance of heme and non-heme catalysts: Metal porphyrins versus metal Schiff bases. *Applied Organometallic Chemistry*, **2018**, 32, e3967	3.1	5
22	Manganese(III) porphyrin anchored onto multiwall carbon nanotubes: An efficient and reusable catalyst for the heterogeneous reduction of aldehydes and ketones. *Journal of Coordination Chemistry*, **2016**, 69, 638-649	1.6	5
21	Voltammetric determination of stability constants of lead complexes with diallyl disulfide, dimethyl disulfide, and diallyl sulfide. *Chinese Chemical Letters*, **2016**, 27, 71-76	8.1	5
20	Oxidation of olefins and sulfides with different oxidants catalyzed by meso-tetra(n-propyl)porphyrinatomanganese(III) acetate: comparison with meso-tetra(phenyl)porphyrinatomanganese(III) acetate. *Journal of the Iranian Chemical Society*, **2014**, 11, 1667-1674	2	5
19	Interaction of meso-tetraarylporphyrins with formic acid: A variable temperature 1H NMR study. *Inorganic Chemistry Communication*, **2013**, 36, 113-116	3.1	5
18	Effects of Core and/or Peripheral Protonation ofmeso-Tetra(2-, 3-, and 4-pyridyl)Porphyrin andmeso-Tetra(3-methylpyridyl)Porphyrin on Their UV-vis Spectra. *Journal of Spectroscopy*, **2013**, 2013, 1-7	1.5	5
17	Axial base-controlled catalytic activity, oxidative stability and product selectivity of water-insoluble manganese and iron porphyrins for oxidation of styrenes in water under green conditions. *Applied Organometallic Chemistry*, **2018**, 32, e4117	3.1	5

16	Evidence on the Nature of the Active Oxidants Involved in the Oxidation of Alcohols with Oxone Catalyzed by an Electron-Deficient Manganese Porphyrin: A Combined Kinetic and Mechanistic Study. *European Journal of Inorganic Chemistry*, **2017**, 2017, 2002-2010	2.3	4
15	Effect of degree of Chlorination on photocatalytic activity of meso-tetraphenylporphyrin under homogeneous and nanoscale heterogeneous conditions: Chlorination vs. bromination. *Journal of Catalysis*, **2020**, 387, 84-94	7.3	4
14	Nitrogen donor-controlled chemoselectivity of reaction in oxidation of sulfides with tetra-n-butylammonium hydrogen monopersulfate catalyzed by a partially brominated meso-tetraphenylporphyrinatomanganese(III) acetate: a clue to the nature of active oxidant. *Journal of Sulfur Chemistry*, **2010**, 31, 89-95	2.3	4
13	Synthesis, Characterization and Reactivity of Iodosylbenzene Nanoparticles as a New Nanoreagent. *ChemistrySelect*, **2016**, 1, 5008-5013	1.8	4
12	Oxidation of hydrocarbons with tetra-n-butylammonium peroxy monosulfate catalyzed by $beta $-tetrabromo-meso-tetrakis(4-methoxyphenyl)- and $beta $-tetrabromo-meso-tetraphenylporphyrinatomanganese(III). *Turkish Journal of Chemistry*, **2014**, 38, 611-616	1	3
11	Effect of Cationic and Anionic Porphyrins on the Structure and Activity of Adenosine Deaminase. *Bulletin of the Korean Chemical Society*, **2011**, 32, 3411-3420	1.2	3
10	Solvent effects on catalytic activity of manganese porphyrins with cationic, anionic and uncharged meso substituents: Indirect evidence on the nature of active oxidant species. *Applied Organometallic Chemistry*, **2019**, 33, e4678	3.1	3
9	Nanosized cationic and anionic manganese porphyrins as mesoporous catalysts for the oxidation of olefins: Nano versus bulk aggregates. *Applied Organometallic Chemistry*, **2018**, 32, e4175	3.1	3
8	Thermal nonlinear optical response of meso-tetraphenylporphyrin under aggregation conditions versus that in the absence of aggregation. *Journal of Modern Optics*, **2018**, 65, 1009-1017	1.1	2
7	Determination of Stability Constants of Cadmium(II) Complexes with Diallyl Disulfide, Dimethyl Disulfide and Diallyl Sulfide Using Differential Pulse Voltammetry. *Russian Journal of Electrochemistry*, **2018**, 54, 77-83	1.2	2
6	Partial and Full Chlorination of Meso-Tetraphenylporphyrin: Effects on the Catalytic Activity of the Manganese Complexes for Oxidation of Organic Compounds with Periodate. *Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry*, **2015**, 45, 997-1003		2
5	Significantly Increased Stability of Donor-Acceptor Molecular Complexes under Heterogeneous Conditions: Synthesis, Characterization, and Photosensitizing Activity of a Nanostructured Porphyrin-Lewis Acid Adduct. *ACS Applied Materials & Interfaces*, **2020**, 12, 46190-46204	9.5	2
4	Lewis acid induced spectral changes of sterically hindered and unhindered meso-tetra(aryl)porphyrins: fluorescence emission spectra. *New Journal of Chemistry*, **2020**, 44, 3028-3037	3.6	1
3	Synthesis, characterization and oxidizing strength of a nano-structured hypervalent iodine(V) compound: iodylbenzene nanofibers. *New Journal of Chemistry*, **2018**, 42, 19137-19143	3.6	1
2	A hypervalent iodine secondary oxidant synthesized by photosensitized singlet oxygen: Synthesis, characterization and oxidative reactivity. *Journal of Catalysis*, **2021**, 405, 545-545	7.3	
1	Short time biomimetic oxidation of styrene with aqueous hydrogen peroxide: Crucial roles played by acetic acid. *Polyhedron*, **2021**, 207, 115377	2.7	