

Saeed Zakavi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	A hypervalent iodine secondary oxidant synthesized by photosensitized singlet oxygen: Synthesis, characterization and oxidative reactivity. <i>Journal of Catalysis</i> , 2021 , 405, 545-545	7.3	
68	Short time biomimetic oxidation of styrene with aqueous hydrogen peroxide: Crucial roles played by acetic acid. <i>Polyhedron</i> , 2021 , 207, 115377	2.7	
67	Lewis acid induced spectral changes of sterically hindered and unhindered meso-tetra(aryl)porphyrins: fluorescence emission spectra. <i>New Journal of Chemistry</i> , 2020 , 44, 3028-3037	3.6	1
66	Effect of degree of chlorination on photocatalytic activity of meso-tetraphenylporphyrin under homogeneous and nanoscale heterogeneous conditions: Chlorination vs. bromination. <i>Journal of Catalysis</i> , 2020 , 387, 84-94	7.3	4
65	Significantly Increased Stability of Donor-Acceptor Molecular Complexes under Heterogeneous Conditions: Synthesis, Characterization, and Photosensitizing Activity of a Nanostructured Porphyrin-Lewis Acid Adduct. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 46190-46204	9.5	2
64	Kinetic and mechanistic aspects of solid state, nanostructured porphyrin diacid photosensitizers in photooxidation of sulfides. <i>Catalysis Science and Technology</i> , 2019 , 9, 1260-1272	5.5	10
63	Effects of bromine substitution and core protonation on photosensitizing properties of porphyrins: Long wavelength photosensitizers. <i>Journal of Catalysis</i> , 2019 , 380, 236-246	7.3	6
62	Solvent effects on catalytic activity of manganese porphyrins with cationic, anionic and uncharged meso substituents: Indirect evidence on the nature of active oxidant species. <i>Applied Organometallic Chemistry</i> , 2019 , 33, e4678	3.1	3
61	Thermal nonlinear optical response of meso-tetraphenylporphyrin under aggregation conditions versus that in the absence of aggregation. <i>Journal of Modern Optics</i> , 2018 , 65, 1009-1017	1.1	2
60	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. <i>New Journal of Chemistry</i> , 2018 , 42, 1806-1815	3.6	11
59	Determination of Stability Constants of Cadmium(II) Complexes with Diallyl Disulfide, Dimethyl Disulfide and Diallyl Sulfide Using Differential Pulse Voltammetry. <i>Russian Journal of Electrochemistry</i> , 2018 , 54, 77-83	1.2	2
58	A comparative study on the catalytic performance of heme and non-heme catalysts: Metal porphyrins versus metal Schiff bases. <i>Applied Organometallic Chemistry</i> , 2018 , 32, e3967	3.1	5
57	The first solid state porphyrin-weak acid molecular complex: A novel metal free, nanosized and porous photocatalyst for large scale aerobic oxidations in water. <i>Journal of Catalysis</i> , 2018 , 364, 394-405	7.3	14
56	Computational and experimental insights into the oxidative stability of iron porphyrins: A mono-ortho-substituted iron porphyrin with unusually high oxidative stability. <i>Journal of Physical Organic Chemistry</i> , 2018 , 31, e3869	2.1	6
55	Optical properties of brominated meso-tetraphenylporphyrins: Comparative experimental and computational studies. <i>Journal of Porphyrins and Phthalocyanines</i> , 2018 , 22, 646-657	1.8	6
54	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. <i>Applied Organometallic Chemistry</i> , 2018 , 32, e4117	3.1	5
53	Simple low cost porphyrinic photosensitizers for large scale chemoselective oxidation of sulfides to sulfoxides under green conditions: targeted protonation of porphyrins. <i>Catalysis Science and Technology</i> , 2018 , 8, 768-781	5.5	18

52	Nanosized cationic and anionic manganese porphyrins as mesoporous catalysts for the oxidation of olefins: Nano versus bulk aggregates. <i>Applied Organometallic Chemistry</i> , 2018 , 32, e4175	3.1	3
51	Synthesis, characterization and oxidizing strength of a nano-structured hypervalent iodine(V) compound: iodylbenzene nanofibers. <i>New Journal of Chemistry</i> , 2018 , 42, 19137-19143	3.6	1
50	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. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 2002-2010	2.3	4
49	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. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 2854-2862	2.3	11
48	Novel metal free porphyrinic photosensitizers supported on solvent-induced Amberlyst-15 nanoparticles with a porous structure. <i>New Journal of Chemistry</i> , 2017 , 41, 5012-5020	3.6	13
47	New insights into the influence of weak and strong acids on the oxidative stability and photocatalytic activity of porphyrins. <i>New Journal of Chemistry</i> , 2017 , 41, 11053-11059	3.6	12
46	The influence of protonation on the structure and spectral properties of porphine: UV-vis, ¹ H NMR and ab initio studies. <i>RSC Advances</i> , 2016 , 6, 82219-82226	3.7	9
45	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. <i>RSC Advances</i> , 2016 , 6, 100931-100938	3.7	20
44	Manganese(III) porphyrin anchored onto multiwall carbon nanotubes: An efficient and reusable catalyst for the heterogeneous reduction of aldehydes and ketones. <i>Journal of Coordination Chemistry</i> , 2016 , 69, 638-649	1.6	5
43	Voltammetric determination of stability constants of lead complexes with diallyl disulfide, dimethyl disulfide, and diallyl sulfide. <i>Chinese Chemical Letters</i> , 2016 , 27, 71-76	8.1	5
42	Solvent Tuning of the Optical Absorption and Fluorescence Properties of Meso-Tetra(aryl)porphyrins and Their Dications With Weak and Strong Carboxylic Acids. <i>ChemistrySelect</i> , 2016 , 1, 6448-6459	1.8	6
41	Synthesis, Characterization and Reactivity of Iodosylbenzene Nanoparticles as a New NanoReagent. <i>ChemistrySelect</i> , 2016 , 1, 5008-5013	1.8	4
40	Saddle-shaped porphyrins for dye-sensitized solar cells: new insight into the relationship between nonplanarity and photovoltaic properties. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 6347-58	3.6	25
39	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. <i>Journal of the Iranian Chemical Society</i> , 2015 , 12, 863-872	2	9
38	Unusual near-white electroluminescence of light emitting diodes based on saddle-shaped porphyrins. <i>Dalton Transactions</i> , 2015 , 44, 8364-8	4.3	15
37	The absorption and fluorescence emission spectra of meso-tetra(aryl)porphyrin dications with weak and strong carboxylic acids: a comparative study. <i>RSC Advances</i> , 2015 , 5, 106774-106786	3.7	27
36	Partial and Full EChlorination of Meso-Tetraphenylporphyrin: Effects on the Catalytic Activity of the Manganese Complexes for Oxidation of Organic Compounds with Periodate. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2015 , 45, 997-1003		2
35	Sodium borohydride reduction of aldehydes catalyzed by an oxovanadium(IV) Schiff base complex encapsulated in the nanocavity of zeolite-Y. <i>Inorganic Chemistry Communication</i> , 2015 , 54, 38-40	3.1	13

34	Electrochemical fabrication of conducting polymer of Ni-porphyrin as nano-structured electrocatalyst for hydrazine oxidation. <i>Sensors and Actuators B: Chemical</i> , 2015 , 210, 343-348	8.5	28
33	Chemoselective oxidation of sulfides to sulfoxides with urea hydrogen peroxide (UHP) catalyzed by non-, partially and fully brominated meso-tetraphenylporphyrinatomanganese(III) acetate. <i>Inorganic Chemistry Communication</i> , 2014 , 40, 82-86	3.1	35
32	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. <i>Journal of the Iranian Chemical Society</i> , 2014 , 11, 1657-1674	2	5
31	Oxidation of hydrocarbons with tetra-n-butylammonium peroxy monosulfate catalyzed by β -tetra-bromo-meso-tetrakis(4-methoxyphenyl)- and β -tetra-bromo-meso-tetraphenylporphyrinatomanganese(III). <i>Turkish Journal of Chemistry</i> , 2014 , 38, 611-616	1	3
30	Interaction of meso-tetraarylporphyrins with formic acid: A variable temperature 1H NMR study. <i>Inorganic Chemistry Communication</i> , 2013 , 36, 113-116	3.1	5
29	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. <i>Inorganic Chemistry Communication</i> , 2013 , 29, 40-44	3.1	36
28	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. <i>Journal of Molecular Catalysis A</i> , 2013 , 367, 108-115		18
27	Porphine core saddling: Effects on the HOMO/LUMO gap and the macrocycle bond lengths and bond angles. <i>Polyhedron</i> , 2013 , 49, 36-40	2.7	8
26	Effects of Core and/or Peripheral Protonation of meso-Tetra(2-, 3-, and 4-pyridyl)Porphyrin and meso-Tetra(3-methylpyridyl)Porphyrin on Their UV-vis Spectra. <i>Journal of Spectroscopy</i> , 2013 , 2013, 1-7	1.5	5
25	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. <i>Polyhedron</i> , 2012 , 31, 368-372	2.7	16
24	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. <i>Polyhedron</i> , 2012 , 34, 102-107	2.7	23
23	Electrochemical study of the dication of porphyrins with carboxylic acids: Shift of the absorption bands compared to that of the redox potentials. <i>Inorganic Chemistry Communication</i> , 2012 , 22, 48-53	3.1	15
22	Manganese meso-tetra-4-carboxyphenylporphyrin immobilized on MCM-41 as catalyst for oxidation of olefins with different oxygen donors in stoichiometric conditions. <i>Journal of Porphyrins and Phthalocyanines</i> , 2012 , 16, 260-266	1.8	16
21	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. <i>Journal of Molecular Catalysis A</i> , 2012 , 363-364, 153-158		21
20	Metalloporphyrin-Catalyzed Chemoselective Oxidation of Sulfides with Polyvinylpyrrolidone-Supported Hydrogen Peroxide: Simple Catalytic System for Selective Oxidation of Sulfides to Sulfoxides. <i>Bulletin of the Korean Chemical Society</i> , 2012 , 33, 35-38	1.2	26
19	Facile Purification of meso-Tetra(pyridyl)porphyrins and Detection of Unreacted Porphyrin upon Metallation of meso-Tetra(aryl) porphyrins. <i>Macrocyclics</i> , 2012 , 5, 67-71	2.2	10
18	Factors influencing the catalytic activity of tetrabrominated meso-tetra(para-tolyl)porphyrinatomanganese(III) for oxidation of sulfides and olefins with Oxone. <i>Journal of Porphyrins and Phthalocyanines</i> , 2011 , 15, 131-139	1.8	11
17	Substitution effects on the UV-vis and 1H NMR spectra of the dications of meso and/or β -substituted porphyrins with trifluoroacetic acid: Electron-deficient porphyrins compared to the electron-rich ones. <i>Inorganic Chemistry Communication</i> , 2011 , 14, 1827-1832	3.1	28

16	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. <i>Inorganic Chemistry Communication</i> , 2011 , 14, 1010-1013	3.1	26
15	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. <i>Polyhedron</i> , 2011 , 30, 1732-1738	2.7	18
14	Effect of Cationic and Anionic Porphyrins on the Structure and Activity of Adenosine Deaminase. <i>Bulletin of the Korean Chemical Society</i> , 2011 , 32, 3411-3420	1.2	3
13	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. <i>Inorganic Chemistry Communication</i> , 2010 , 13, 203-207	2.3	4
12	Hydrogen bond controlled adduct formation of meso-tetra(4-sulfonatophenyl)porphyrin with protic acids: a UV-vis spectroscopic study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010 , 77, 994-7	4.4	13
11	Meso-tetracinnamylporphyrin: Synthesis, characterization and the catalytic activity of its Mn(III) complex in olefin epoxidation with tetra-n-butylammonium hydrogen monopersulfate. <i>Polyhedron</i> , 2010 , 29, 1492-1496	2.7	12
10	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. <i>Inorganic Chemistry Communication</i> , 2010 , 13, 203-207	3.1	61
9	Highly efficient oxidation of sulfides to sulfones with tetra-n-butylammonium hydrogen monopersulfate catalyzed by tri- and tetra-brominated meso-tetraphenylporphyrinatomanganese(III) acetate. <i>Applied Catalysis A: General</i> , 2009 , 353, 154-159	5.1	33
8	Meso-tetraarylporphyrin catalyzed highly regioselective ring opening of epoxides with acetic acid. <i>Catalysis Communications</i> , 2009 , 10, 388-390	3.2	13
7	Electron-deficient Mn(III)-porphyrin catalyzed oxidation of hydrocarbons with tetra-n-butylammonium hydrogen monopersulfate: Effect of counter ions and nitrogen donors. <i>Catalysis Communications</i> , 2008 , 10, 221-226	3.2	21
6	Tetra-brominated meso-tetraphenylporphyrin: A conformational study and application to the Mn-porphyrin catalyzed epoxidation of olefins with tetrabutylammonium oxone. <i>Polyhedron</i> , 2008 , 27, 2285-2290	2.7	28
5	A UV-vis spectroscopic study of 1:2 adduct formation of some free-base meso-tetraaryl- and meso-tetraalkylporphyrins with PhSnCl ₃ and (CH ₃) ₂ SnCl ₂ . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008 , 69, 998-1003	4.4	8
4	Core protonation of meso-tetraphenylporphyrin with tetrafluoroboric acid: unusual water-mediated hydrogen bonding of H ₄ tpp ²⁺ to the counterion. <i>Tetrahedron Letters</i> , 2008 , 49, 664-667 ²		19
3	Interaction of para-substituted meso-tetraphenylporphyrins and meso-tetra(n-propyl)porphyrin with weak and strong carboxylic acids: A UV-vis spectroscopic study. <i>Polyhedron</i> , 2007 , 26, 2425-2432	2.7	39
2	Oxidative Decarboxylation of Carboxylic Acids with Tetrabutylammonium Periodate Catalyzed by Manganese (III) Meso-Tetraarylporphyrins: Effect of Metals, Meso-Substituents, and Anionic Axial Ligands. <i>Chinese Journal of Catalysis</i> , 2007 , 28, 940-946	11.3	13
1	Unique 1:2 adduct formation of meso-tetraarylporphyrins and meso-tetraalkylporphyrins with BF ₃ : a spectroscopic and ab initio study. <i>New Journal of Chemistry</i> , 2004 , 28, 1600-1607	3.6	34