

Guochuan Yin

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7661737/guochuan-yin-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

84
papers

2,708
citations

29
h-index

50
g-index

90
ext. papers

3,052
ext. citations

6.6
avg, IF

5.44
L-index

#	Paper	IF	Citations
84	Degradation of organic pollutants in wastewater by bicarbonate-activated hydrogen peroxide with a supported cobalt catalyst. <i>Environmental Science & Technology</i> , 2013 , 47, 3833-9	10.3	173
83	Catalyzed oxidative degradation of methylene blue by in situ generated cobalt (II)-bicarbonate complexes with hydrogen peroxide. <i>Applied Catalysis B: Environmental</i> , 2011 , 102, 37-43	21.8	115
82	The reactivity of the active metal oxo and hydroxo intermediates and their implications in oxidations. <i>Chemical Society Reviews</i> , 2015 , 44, 1083-100	58.5	113
81	Synthesis of maleic acid from renewable resources: Catalytic oxidation of furfural in liquid media with dioxygen. <i>Catalysis Communications</i> , 2011 , 12, 731-733	3.2	103
80	Understanding the oxidative relationships of the metal oxo, hydroxo, and hydroperoxide intermediates with manganese(IV) complexes having bridged cyclams: correlation of the physicochemical properties with reactivity. <i>Accounts of Chemical Research</i> , 2013 , 46, 483-92	24.3	101
79	Catalytic Aerobic Oxidation of Renewable Furfural with Phosphomolybdic Acid Catalyst: an Alternative Route to Maleic Acid. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 17516-17522	3.8	101
78	Oxidative reactivity difference among the metal oxo and metal hydroxo moieties: pH dependent hydrogen abstraction by a manganese(IV) complex having two hydroxide ligands. <i>Journal of the American Chemical Society</i> , 2008 , 130, 16245-53	16.4	101
77	Transformation of 5-Hydroxymethylfurfural (HMF) to Maleic Anhydride by Aerobic Oxidation with Heteropolyacid Catalysts. <i>ACS Catalysis</i> , 2015 , 5, 2035-2041	13.1	98
76	Catalytic aerobic oxidation of renewable furfural to maleic anhydride and furanone derivatives with their mechanistic studies. <i>Green Chemistry</i> , 2014 , 16, 4351-4358	10	84
75	Synthesis, characterization, and solution properties of a novel cross-bridged cyclam manganese(IV) complex having two terminal hydroxo ligands. <i>Inorganic Chemistry</i> , 2006 , 45, 8052-61	5.1	84
74	Understanding the selectivity of a moderate oxidation catalyst: hydrogen abstraction by a fully characterized, activated catalyst, the robust dihydroxo manganese(IV) complex of a bridged cyclam. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1512-3	16.4	78
73	Degradation of chlorophenols by supported Co-Mg-Al layered double hydroxide with bicarbonate activated hydrogen peroxide. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 10028-35	2.8	75
72	Olefin oxygenation by the hydroperoxide adduct of a nonheme manganese(IV) complex: epoxidations by a metallo-peracid produces gentle selective oxidations. <i>Journal of the American Chemical Society</i> , 2005 , 127, 17170-1	16.4	73
71	Olefin epoxidation by the hydrogen peroxide adduct of a novel non-heme manganese(IV) complex: demonstration of oxygen transfer by multiple mechanisms. <i>Inorganic Chemistry</i> , 2006 , 45, 3467-74	5.1	69
70	Efficient degradation of organic pollutants in aqueous solution with bicarbonate-activated hydrogen peroxide. <i>Chemosphere</i> , 2011 , 82, 1190-5	8.4	63
69	Lewis-acid-promoted stoichiometric and catalytic oxidations by manganese complexes having cross-bridged cyclam ligand: a comprehensive study. <i>Inorganic Chemistry</i> , 2013 , 52, 5418-27	5.1	56
68	Distinct reactivity differences of metal oxo and its corresponding hydroxo moieties in oxidations: implications from a manganese(IV) complex having dihydroxide ligand. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 7321-4	16.4	56

67	Controlled leaching with prolonged activity for Co-LDH supported catalyst during treatment of organic dyes using bicarbonate activation of hydrogen peroxide. <i>Journal of Hazardous Materials</i> , 2015 , 289, 165-173	12.8	53
66	Active transition metal oxo and hydroxo moieties in nature's redox, enzymes and their synthetic models: Structure and reactivity relationships. <i>Coordination Chemistry Reviews</i> , 2010 , 254, 1826-1842	23.2	52
65	Olefin epoxidation by alkyl hydroperoxide with a novel cross-bridged cyclam manganese complex: demonstration of oxygenation by two distinct reactive intermediates. <i>Inorganic Chemistry</i> , 2007 , 46, 2173-80	5.1	52
64	Non-redox metal ion promoted oxygen transfer by a non-heme manganese catalyst. <i>Chemical Communications</i> , 2015 , 51, 1874-7	5.8	43
63	Influence of calcium(II) and chloride on the oxidative reactivity of a manganese(II) complex of a cross-bridged cyclen ligand. <i>Inorganic Chemistry</i> , 2014 , 53, 11937-47	5.1	40
62	Redox inactive metal ion promoted C-H activation of benzene to phenol with Pd(II)(bpym): demonstrating new strategies in catalyst designs. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 888-91	4.5	38
61	Oxo- and hydroxomanganese(IV) adducts: a comparative spectroscopic and computational study. <i>Inorganic Chemistry</i> , 2010 , 49, 7530-5	5.1	38
60	Non-redox metal ion promoted oxidative coupling of indoles with olefins by the palladium(ii) acetate catalyst through dioxygen activation: experimental results with DFT calculations. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 4146-57	3.9	34
59	Decolorization of dye pollutions by manganese complexes with rigid cross-bridged cyclam ligands and its mechanistic investigations. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 12243-8	2.8	33
58	Redox-inactive metal ions promoted the catalytic reactivity of non-heme manganese complexes towards oxygen atom transfer. <i>Dalton Transactions</i> , 2015 , 44, 9182-92	4.3	32
57	Catalytic Synthesis of 2,5-Furandicarboxylic Acid from Furoic Acid: Transformation from C5 Platform to C6 Derivatives in Biomass Utilizations. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 9360-9369	8.3	31
56	Non-redox metal ions can promote Wacker-type oxidations even better than copper(II): a new opportunity in catalyst design. <i>Dalton Transactions</i> , 2015 , 44, 17508-15	4.3	30
55	Nonredox Metal Ions Promoted Olefin Epoxidation by Iron(II) Complexes with HO: DFT Calculations Reveal Multiple Channels for Oxygen Transfer. <i>Inorganic Chemistry</i> , 2017 , 56, 15138-15149	5.1	29
54	Efficient Bimetallic Catalysis of Nitrile Hydration to Amides with a Simple Pd(OAc) ₂ /Lewis Acid Catalyst at Ambient Temperature. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 1870-1875	3.2	27
53	Kinetics of hydrogen abstraction by active metal hydroxo and oxo intermediates: revealing their unexpected similarities in the transition state. <i>Chemical Communications</i> , 2012 , 48, 7832-4	5.8	26
52	Nonredox Metal-Ion-Accelerated Olefin Isomerization by Palladium(II) Catalysts: Density Functional Theory (DFT) Calculations Supporting the Experimental Data. <i>ACS Catalysis</i> , 2016 , 6, 4144-4148	13.1	24
51	Synthesis, structural studies, and oxidation catalysis of the late-first-row-transition-metal complexes of a 2-pyridylmethyl pendant-armed ethylene cross-bridged cyclam. <i>Inorganic Chemistry</i> , 2015 , 54, 2221-34	5.1	24
50	The oxidative properties of a manganese(IV) hydroperoxide moiety and its relationships with the corresponding manganese(IV) oxo and hydroxo moieties. <i>Dalton Transactions</i> , 2012 , 41, 2612-9	4.3	24

49	Cu(OAc) ₂ -catalyzed partial oxidation of methane to methyl trifluoroacetate in the liquid phase. <i>Applied Organometallic Chemistry</i> , 2000 , 14, 438-442	3.1	24
48	Distinct oxygenation difference between manganese(IV) hydroxo and oxo moieties: electron transfer versus concerted oxygen transfer. <i>Chemistry - A European Journal</i> , 2009 , 15, 11478-81	4.8	23
47	Bicarbonate activation of hydrogen peroxide: A new emerging technology for wastewater treatment. <i>Chinese Journal of Catalysis</i> , 2016 , 37, 810-825	11.3	22
46	Influence of the Net Charge on the Reactivity of a Manganese(IV) Species: Leading to the Correlation of Its Physicochemical Properties with Reactivity. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 13231-13239	3.8	22
45	Support-dependent active species formation for CuO catalysts: Leading to efficient pollutant degradation in alkaline conditions. <i>Journal of Hazardous Materials</i> , 2017 , 328, 56-62	12.8	21
44	Redox inactive metal ion triggered N-dealkylation by an iron catalyst with dioxygen activation: a lesson from lipoygenases. <i>Dalton Transactions</i> , 2015 , 44, 9847-59	4.3	21
43	Nonredox Metal-Ions-Enhanced Dioxygen Activation by Oxidovanadium(IV) Complexes toward Hydrogen Atom Abstraction. <i>Inorganic Chemistry</i> , 2017 , 56, 834-844	5.1	20
42	Aerobic oxidation of alcohols to aldehydes and ketones using ruthenium(III)/Et ₃ N catalyst. <i>Applied Organometallic Chemistry</i> , 2011 , 25, 836-842	3.1	20
41	A new efficient Pd-catalyzed synthesis of diphenyl carbonate with heteropolyacid as a cocatalyst. <i>Journal of Organometallic Chemistry</i> , 2001 , 630, 11-16	2.3	19
40	Synthesis of 2,5-furandicarboxylic acid by catalytic carbonylation of renewable furfural derived 5-bromofuroic acid. <i>Molecular Catalysis</i> , 2018 , 455, 204-209	3.3	18
39	Lewis Acid Promoted Aerobic Oxidative Coupling of Thiols with Phosphonates by Simple Nickel(II) Catalyst: Substrate Scope and Mechanistic Studies. <i>Journal of Organic Chemistry</i> , 2019 , 84, 4179-4190	4.2	17
38	Catalytic Oxidation of Alkynes into 1,2-Diketone Derivatives by Using a PdII/Lewis-Acid Catalyst. <i>Asian Journal of Organic Chemistry</i> , 2018 , 7, 212-219	3	17
37	Synergistic oxygen atom transfer by ruthenium complexes with non-redox metal ions. <i>Dalton Transactions</i> , 2016 , 45, 11369-83	4.3	16
36	Synergistic degradation of phenols by bimetallic CuO@Co ₃ O ₄ @Al ₂ O ₃ catalyst in H ₂ O ₂ /HCO ₃ ⁻ system. <i>Chinese Journal of Catalysis</i> , 2016 , 37, 963-970	11.3	15
35	Efficient Synthesis of 2,5-Furandicarboxylic Acid from Furfural Based Platform through Aqueous-Phase Carbonylation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 13192-13198	8.3	15
34	Non-redox metal ions promoted oxidative dehydrogenation of saturated C-C bond by simple Pd(OAc) ₂ catalyst. <i>Catalysis Communications</i> , 2017 , 90, 5-9	3.2	15
33	The mechanistic study of the Pd-catalyzed synthesis of diphenylcarbonate with heteropolyacid as a cocatalyst. <i>Journal of Organometallic Chemistry</i> , 2003 , 674, 96-100	2.3	15
32	Bimetallic synergistic degradation of chlorophenols by CuCoOx/DH catalyst in bicarbonate-activated hydrogen peroxide system. <i>RSC Advances</i> , 2016 , 6, 72643-72653	3.7	15

31	Pd-catalyzed C-H bond activation of benzene in the CO ₂ -expanded solvent. <i>Catalysis Communications</i> , 2010 , 11, 560-562	3.2	14
30	A new and efficient catalytic system for synthesis of diphenyl carbonate with W-Mo-heteropolyacids as a cocatalyst. <i>Catalysis Letters</i> , 2000 , 69, 89-91	2.8	13
29	Catalytic Transformation of the Furfural Platform into Bifunctionalized Monomers for Polymer Synthesis. <i>ACS Catalysis</i> , 2021 , 11, 10058-10083	13.1	13
28	Synthesis, structural studies, and oxidation catalysis of the manganese(II), iron(II), and copper(II) complexes of a 2-pyridylmethyl pendant armed side-bridged cyclam. <i>Inorganic Chemistry Communication</i> , 2015 , 59, 71-75	3.1	12
27	Promoting a non-heme manganese complex catalyzed oxygen transfer reaction by both lewis acid and Brønsted acid: Similarities and distinctions. <i>Molecular Catalysis</i> , 2017 , 438, 230-238	3.3	12
26	Mechanistic Details to Facilitate Applications of an Exceptional Catalyst, Methyltrioxorhenium: Encouraging Results from Oxygen-18 Isotopic Probes. <i>Catalysis Letters</i> , 2009 , 130, 52-55	2.8	12
25	Catalytic carbonylation of renewable furfural derived 5-bromofurfural to 5-formyl-2-furancarboxylic acid in oil/aqueous bi-phase system. <i>Molecular Catalysis</i> , 2019 , 463, 94-98	3.3	11
24	Non-redox metal ions accelerated oxygen atom transfer by Mn-Me ₃ tacn complex with H ₂ O ₂ as oxygen resource. <i>Molecular Catalysis</i> , 2018 , 448, 46-52	3.3	10
23	Efficient Oxidation of Benzylic and Aliphatic Alcohols Using a Bioinspired Cross-Bridged Cyclam Manganese Complex with H ₂ O ₂ . <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 323-327	3.2	9
22	Synthesis, structural studies, kinetic stability, and oxidation catalysis of the late first row transition metal complexes of 4,10-dimethyl-1,4,7,10-tetraazabicyclo[6.5.2]pentadecane. <i>Dalton Transactions</i> , 2015 , 44, 12210-24	4.3	8
21	Similarities and differences in properties and behavior of two H ₂ O ₂ -activated manganese catalysts having structures differing only by methyl and ethyl substituents. <i>Journal of Coordination Chemistry</i> , 2011 , 64, 4-17	1.6	8
20	A General Strategy for Open-Flask Alkene Isomerization by Ruthenium Hydride Complexes with Non-Redox Metal Salts. <i>ChemCatChem</i> , 2017 , 9, 3849-3859	5.2	7
19	Feasible Synthesis of a Bifuran-Based Monomer for Polymer Synthesis from a Hemicellulose-Derived Platform. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 19876-19883	3.9	7
18	Accessing the HMF Derivatives from Furfural Acetate through Oxidative Carbonylation. <i>ChemistrySelect</i> , 2017 , 2, 7096-7099	1.8	7
17	Distinct Reactivity Differences of Metal Oxo and Its Corresponding Hydroxo Moieties in Oxidations: Implications from a Manganese(IV) Complex Having Dihydroxide Ligand. <i>Angewandte Chemie</i> , 2011 , 123, 7459-7462	3.6	7
16	Non-redox metal ions promoted dehydrogenation of saturated C-H bond by a ruthenium catalyst with dioxygen activation. <i>Molecular Catalysis</i> , 2017 , 432, 259-266	3.3	6
15	Palladium(II)/Lewis Acid-Catalyzed Oxidative Olefination/Annulation of <i>N</i> -Methoxybenzamides: Identifying the Active Intermediates through NMR Characterizations. <i>Journal of Organic Chemistry</i> , 2020 , 85, 8760-8772	4.2	6
14	Aqueous Carbonylation of Furfural-Derived 5-Bromofuroic Acid to 2,5-Furandicarboxylic Acid with Supported Palladium Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 22951-22957	3.9	6

13	Molecular self-modification: homolog of a manganese laundry bleach catalyst oxidatively transforms its tetradentate ligand into a novel hexadentate derivative. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2011 , 71, 311-318		5
12	Transformation of Unsaturated Fatty Acids/Esters to Corresponding Keto Fatty Acids/Esters by Aerobic Oxidation with Pd(II)/Lewis Acid Catalyst. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 6912-6918	5.7	4
11	Manganese complexes with a lengthy o -xylylene cross-bridged cyclam ligand: synthesis, characterization and catalytic hydrogen abstraction by dioxygen activation. <i>Journal of Coordination Chemistry</i> , 2008 , 61, 45-59	1.6	4
10	Transformation of Methyl Linoleate to its Conjugated Derivatives with Simple Pd(OAc) ₂ /Lewis Acid Catalyst. <i>JAOCS, Journal of the American Oil Chemists Society</i> , 2017 , 94, 1481-1489	1.8	3
9	Lewis acid promoted double bond migration in O-allyl to Z-products by Ru-H complexes. <i>Molecular Catalysis</i> , 2019 , 469, 10-17	3.3	3
8	Z/E Effect on Phase Behavior of Main-Chain Liquid Crystalline Polymers Bearing AlEgens. <i>Macromolecules</i> ,	5.5	3
7	Oxidative Stability of Soybean Oil under Accelerated Transformer Conditions: Comprehensive Mechanistic Studies. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 7742-7751	3.9	2
6	Palladium (II)-catalyzed homogeneous alcohol oxidations: Disclosing the crucial contribution of palladium nanoparticles in catalysis. <i>Applied Organometallic Chemistry</i> , 2021 , 35, e6093	3.1	2
5	Decarboxylative Addition of Propiolic Acids with Indoles to Synthesize Bis(indolyl)methane Derivatives with a Pd(II)/LA Catalyst. <i>Journal of Organic Chemistry</i> , 2021 , 86, 8333-8350	4.2	1
4	Advances in value-added aromatics by oxidation of lignin with transition metal complexes. <i>Transition Metal Chemistry</i> ,1	2.1	1
3	Feasible synthesis of bifurfural from renewable furfural derived 5-bromofurfural for polymerization. <i>Molecular Catalysis</i> , 2021 , 513, 111814	3.3	0
2	Configuration-Dependent Liquid Crystal and Gel Behaviors of Tetraphenylethene-Containing Main-Chain Copolyesters.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200154	4.8	0
1	Studies on the anti-oxidative ability of quinones in natural ester based insulating liquids for transformers. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 467, 012066	0.3	