Guochuan Yin

List of Publications by Year in Descending Order

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	Configuration-Dependent Liquid Crystal and Gel Behaviors of Tetraphenylethene-Containing Main-Chain Copolyesters.. *Macromolecular Rapid Communications*, **2022**, e2200154	4.8	0
83	Decarboxylative Addition of Propiolic Acids with Indoles to Synthesize Bis(indolyl)methane Derivatives with a Pd(II)/LA Catalyst. *Journal of Organic Chemistry*, **2021**, 86, 8333-8350	4.2	1
82	Catalytic Transformation of the Furfural Platform into Bifunctionalized Monomers for Polymer Synthesis. *ACS Catalysis*, **2021**, 11, 10058-10083	13.1	13
81	Palladium (II)-catalyzed homogeneous alcohol oxidations: Disclosing the crucial contribution of palladium nanoparticles in catalysis. *Applied Organometallic Chemistry*, **2021**, 35, e6093	3.1	2
80	Feasible synthesis of bifurfural from renewable furfural derived 5-bromofurfural for polymerization. *Molecular Catalysis*, **2021**, 513, 111814	3.3	0
79	Feasible Synthesis of a Bifuran-Based Monomer for Polymer Synthesis from a Hemicellulose-Derived Platform. *Industrial & Engineering Chemistry Research*, **2020**, 59, 19876-19883	3.9	7
78	Palladium(II)/Lewis Acid-Catalyzed Oxidative Olefination/Annulation of -Methoxybenzamides: Identifying the Active Intermediates through NMR Characterizations. *Journal of Organic Chemistry*, **2020**, 85, 8760-8772	4.2	6
77	Studies on the anti-oxidative ability of quinones in natural ester based insulating liquids for transformers. *IOP Conference Series: Earth and Environmental Science*, **2020**, 467, 012066	0.3	
76	Oxidative Stability of Soybean Oil under Accelerated Transformer Conditions: Comprehensive Mechanistic Studies. *Industrial & Engineering Chemistry Research*, **2019**, 58, 7742-7751	3.9	2
75	Lewis Acid Promoted Aerobic Oxidative Coupling of Thiols with Phosphonates by Simple Nickel(II) Catalyst: Substrate Scope and Mechanistic Studies. *Journal of Organic Chemistry*, **2019**, 84, 4179-4190	4.2	17
74	Lewis acid promoted double bond migration in O-allyl to Z-products by Ru-H complexes. *Molecular Catalysis*, **2019**, 469, 10-17	3.3	3
73	Aqueous Carbonylation of Furfural-Derived 5-Bromofuroic Acid to 2,5-Furandicarboxylic Acid with Supported Palladium Catalyst. *Industrial & Engineering Chemistry Research*, **2019**, 58, 22951-22957	3.9	6
72	Catalytic carbonylation of renewable furfural derived 5-bromofurfural to 5-formyl-2-furancarboxylic acid in oil/aqueous bi-phase system. *Molecular Catalysis*, **2019**, 463, 94-98	3.3	11
71	Efficient Oxidation of Benzylic and Aliphatic Alcohols Using a Bioinspired Cross-Bridged Cyclam Manganese Complex with H2O2. *European Journal of Organic Chemistry*, **2019**, 2019, 323-327	3.2	9
70	Non-redox metal ions accelerated oxygen atom transfer by Mn-Me3tacn complex with H2O2 as oxygen resource. *Molecular Catalysis*, **2018**, 448, 46-52	3.3	10
69	Catalytic Oxidation of Alkynes into 1,2-Diketone Derivatives by Using a PdII/Lewis-Acid Catalyst. *Asian Journal of Organic Chemistry*, **2018**, 7, 212-219	3	17
68	Efficient Synthesis of 2,5-Furandicarboxylic Acid from Furfural Based Platform through Aqueous-Phase Carbonylation. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 13192-13198	8.3	15

67	Synthesis of 2,5-furandicarboxylic acid by catalytic carbonylation of renewable furfural derived 5-bromofuroic acid. *Molecular Catalysis*, **2018**, 455, 204-209	3.3	18
66	Support-dependent active species formation for CuO catalysts: Leading to efficient pollutant degradation in alkaline conditions. *Journal of Hazardous Materials*, **2017**, 328, 56-62	12.8	21
65	Efficient Bimetallic Catalysis of Nitrile Hydration to Amides with a Simple Pd(OAc)2/Lewis Acid Catalyst at Ambient Temperature. *European Journal of Organic Chemistry*, **2017**, 2017, 1870-1875	3.2	27
64	Non-redox metal ions promoted dehydrogenation of saturated C□ bond by a ruthenium catalyst with dioxygen activation. *Molecular Catalysis*, **2017**, 432, 259-266	3.3	6
63	A General Strategy for Open-Flask Alkene Isomerization by Ruthenium Hydride Complexes with Non-Redox Metal Salts. *ChemCatChem*, **2017**, 9, 3849-3859	5.2	7
62	Nonredox Metal-Ions-Enhanced Dioxygen Activation by Oxidovanadium(IV) Complexes toward Hydrogen Atom Abstraction. *Inorganic Chemistry*, **2017**, 56, 834-844	5.1	20
61	Transformation of Methyl Linoleate to its Conjugated Derivatives with Simple Pd(OAc)2/Lewis Acid Catalyst. *JAOCS, Journal of the American Oil ChemistspSociety*, **2017**, 94, 1481-1489	1.8	3
60	Catalytic Synthesis of 2,5-Furandicarboxylic Acid from Furoic Acid: Transformation from C5 Platform to C6 Derivatives in Biomass Utilizations. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 9360-9369	8.3	31
59	Accessing the HMF Derivatives from Furfural Acetate through Oxidative Carbonylation. *ChemistrySelect*, **2017**, 2, 7096-7099	1.8	7
58	Transformation of Unsaturated Fatty Acids/Esters to Corresponding Keto Fatty Acids/Esters by Aerobic Oxidation with Pd(II)/Lewis Acid Catalyst. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 6912-6918	5.7	4
57	Nonredox Metal Ions Promoted Olefin Epoxidation by Iron(II) Complexes with HO: DFT Calculations Reveal Multiple Channels for Oxygen Transfer. *Inorganic Chemistry*, **2017**, 56, 15138-15149	5.1	29
56	Promoting a non-heme manganese complex catalyzed oxygen transfer reaction by both lewis acid and Br□sted acid: Similarities and distinctions. *Molecular Catalysis*, **2017**, 438, 230-238	3.3	12
55	Non-redox metal ions promoted oxidative dehydrogenation of saturated C C bond by simple Pd(OAc)2 catalyst. *Catalysis Communications*, **2017**, 90, 5-9	3.2	15
54	Synergistic oxygen atom transfer by ruthenium complexes with non-redox metal ions. *Dalton Transactions*, **2016**, 45, 11369-83	4.3	16
53	Nonredox Metal-Ion-Accelerated Olefin Isomerization by Palladium(II) Catalysts: Density Functional Theory (DFT) Calculations Supporting the Experimental Data. *ACS Catalysis*, **2016**, 6, 4144-4148	13.1	24
52	Bicarbonate activation of hydrogen peroxide: A new emerging technology for wastewater treatment. *Chinese Journal of Catalysis*, **2016**, 37, 810-825	11.3	22
51	Synergistic degradation of phenols by bimetallic CuO□o3O4@□Al2O3 catalyst in H2O2/HCO3□ system. *Chinese Journal of Catalysis*, **2016**, 37, 963-970	11.3	15
50	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. *Organic and Biomolecular Chemistry*, **2016**, 14, 4146-57	3.9	34

49	Bimetallic synergistic degradation of chlorophenols by CuCoOx□LDH catalyst in bicarbonate-activated hydrogen peroxide system. *RSC Advances*, **2016**, 6, 72643-72653	3.7	15
48	Transformation of 5-Hydroxymethylfurfural (HMF) to Maleic Anhydride by Aerobic Oxidation with Heteropolyacid Catalysts. *ACS Catalysis*, **2015**, 5, 2035-2041	13.1	98
47	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. *Inorganic Chemistry Communication*, **2015**, 59, 71-75	3.1	12
46	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. *Dalton Transactions*, **2015**, 44, 12210-24	4.3	8
45	Redox inactive metal ion triggered N-dealkylation by an iron catalyst with dioxygen activation: a lesson from lipoxygenases. *Dalton Transactions*, **2015**, 44, 9847-59	4.3	21
44	Controlled leaching with prolonged activity for Co-LDH supported catalyst during treatment of organic dyes using bicarbonate activation of hydrogen peroxide. *Journal of Hazardous Materials*, **2015**, 289, 165-173	12.8	53
43	Redox-inactive metal ions promoted the catalytic reactivity of non-heme manganese complexes towards oxygen atom transfer. *Dalton Transactions*, **2015**, 44, 9182-92	4.3	32
42	Non-redox metal ions can promote Wacker-type oxidations even better than copper(II): a new opportunity in catalyst design. *Dalton Transactions*, **2015**, 44, 17508-15	4.3	30
41	Non-redox metal ion promoted oxygen transfer by a non-heme manganese catalyst. *Chemical Communications*, **2015**, 51, 1874-7	5.8	43
40	The reactivity of the active metal oxo and hydroxo intermediates and their implications in oxidations. *Chemical Society Reviews*, **2015**, 44, 1083-100	58.5	113
39	Synthesis, structural studies, and oxidation catalysis of the late-first-row-transition-metal complexes of a 2-pyridylmethyl pendant-armed ethylene cross-bridged cyclam. *Inorganic Chemistry*, **2015**, 54, 2221-34	5.1	24
38	Influence of calcium(II) and chloride on the oxidative reactivity of a manganese(II) complex of a cross-bridged cyclen ligand. *Inorganic Chemistry*, **2014**, 53, 11937-47	5.1	40
37	Degradation of chlorophenols by supported Co-Mg-Al layered double hydrotalcite with bicarbonate activated hydrogen peroxide. *Journal of Physical Chemistry A*, **2014**, 118, 10028-35	2.8	75
36	Catalytic aerobic oxidation of renewable furfural to maleic anhydride and furanone derivatives with their mechanistic studies. *Green Chemistry*, **2014**, 16, 4351-4358	10	84
35	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. *Accounts of Chemical Research*, **2013**, 46, 483-92	24.3	101
34	Lewis-acid-promoted stoichiometric and catalytic oxidations by manganese complexes having cross-bridged cyclam ligand: a comprehensive study. *Inorganic Chemistry*, **2013**, 52, 5418-27	5.1	56
33	Redox inactive metal ion promoted C-H activation of benzene to phenol with Pd(II)(bpym): demonstrating new strategies in catalyst designs. *Chemistry - an Asian Journal*, **2013**, 8, 888-91	4.5	38
32	Degradation of organic pollutants in wastewater by bicarbonate-activated hydrogen peroxide with a supported cobalt catalyst. *Environmental Science & Technology*, **2013**, 47, 3833-9	10.3	173

31	The oxidative properties of a manganese(IV) hydroperoxide moiety and its relationships with the corresponding manganese(IV) oxo and hydroxo moieties. *Dalton Transactions*, **2012**, 41, 2612-9	4.3	24
30	Kinetics of hydrogen abstraction by active metal hydroxo and oxo intermediates: revealing their unexpected similarities in the transition state. *Chemical Communications*, **2012**, 48, 7832-4	5.8	26
29	Influence of the Net Charge on the Reactivity of a Manganese(IV) Species: Leading to the Correlation of Its Physicochemical Properties with Reactivity. *Journal of Physical Chemistry C*, **2012**, 116, 13231-13239	3.8	22
28	Synthesis of maleic acid from renewable resources: Catalytic oxidation of furfural in liquid media with dioxygen. *Catalysis Communications*, **2011**, 12, 731-733	3.2	103
27	Efficient degradation of organic pollutants in aqueous solution with bicarbonate-activated hydrogen peroxide. *Chemosphere*, **2011**, 82, 1190-5	8.4	63
26	Molecular self-modification: homolog of a manganese laundry bleach catalyst oxidatively transforms its tetradentate ligand into a novel hexadentate derivative. *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, **2011**, 71, 311-318		5
25	Distinct Reactivity Differences of Metal Oxo and Its Corresponding Hydroxo Moieties in Oxidations: Implications from a Manganese(IV) Complex Having Dihydroxide Ligand. *Angewandte Chemie*, **2011**, 123, 7459-7462	3.6	7
24	Distinct reactivity differences of metal oxo and its corresponding hydroxo moieties in oxidations: implications from a manganese(IV) complex having dihydroxide ligand. *Angewandte Chemie - International Edition*, **2011**, 50, 7321-4	16.4	56
23	Aerobic oxidation of alcohols to aldehydes and ketones using ruthenium(III)/Et3N catalyst. *Applied Organometallic Chemistry*, **2011**, 25, 836-842	3.1	20
22	Similarities and differences in properties and behavior of two H2O2-activated manganese catalysts having structures differing only by methyl and ethyl substituents. *Journal of Coordination Chemistry* , **2011**, 64, 4-17	1.6	8
21	Catalytic Aerobic Oxidation of Renewable Furfural with Phosphomolybdic Acid Catalyst: an Alternative Route to Maleic Acid. *Journal of Physical Chemistry C*, **2011**, 115, 17516-17522	3.8	101
20	Catalyzed oxidative degradation of methylene blue by in situ generated cobalt (II)-bicarbonate complexes with hydrogen peroxide. *Applied Catalysis B: Environmental*, **2011**, 102, 37-43	21.8	115
19	Oxo- and hydroxomanganese(IV) adducts: a comparative spectroscopic and computational study. *Inorganic Chemistry*, **2010**, 49, 7530-5	5.1	38
18	Pd-catalyzed C–H bond activation of benzene in the CO2-expanded solvent. *Catalysis Communications*, **2010**, 11, 560-562	3.2	14
17	Active transition metal oxo and hydroxo moieties in nature's redox, enzymes and their synthetic models: Structure and reactivity relationships. *Coordination Chemistry Reviews*, **2010**, 254, 1826-1842	23.2	52
16	Distinct oxygenation difference between manganese(IV) hydroxo and oxo moieties: electron transfer versus concerted oxygen transfer. *Chemistry - A European Journal*, **2009**, 15, 11478-81	4.8	23
15	Mechanistic Details to Facilitate Applications of an Exceptional Catalyst, Methyltrioxorhenium: Encouraging Results from Oxygen-18 Isotopic Probes. *Catalysis Letters*, **2009**, 130, 52-55	2.8	12
14	Decolorization of dye pollutions by manganese complexes with rigid cross-bridged cyclam ligands and its mechanistic investigations. *Journal of Physical Chemistry A*, **2009**, 113, 12243-8	2.8	33

13	Manganese complexes with a lengthy o -xylylene cross-bridged cyclam ligand: synthesis, characterization and catalytic hydrogen abstraction by dioxygen activation. *Journal of Coordination Chemistry*, **2008**, 61, 45-59	1.6	4
12	Oxidative reactivity difference among the metal oxo and metal hydroxo moieties: pH dependent hydrogen abstraction by a manganese(IV) complex having two hydroxide ligands. *Journal of the American Chemical Society*, **2008**, 130, 16245-53	16.4	101
11	Olefin epoxidation by alkyl hydroperoxide with a novel cross-bridged cyclam manganese complex: demonstration of oxygenation by two distinct reactive intermediates. *Inorganic Chemistry*, **2007**, 46, 2173-80	5.1	52
10	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. *Journal of the American Chemical Society*, **2007**, 129, 1512-3	16.4	78
9	Olefin epoxidation by the hydrogen peroxide adduct of a novel non-heme mangangese(IV) complex: demonstration of oxygen transfer by multiple mechanisms. *Inorganic Chemistry*, **2006**, 45, 3467-74	5.1	69
8	Synthesis, characterization, and solution properties of a novel cross-bridged cyclam manganese(IV) complex having two terminal hydroxo ligands. *Inorganic Chemistry*, **2006**, 45, 8052-61	5.1	84
7	Olefin oxygenation by the hydroperoxide adduct of a nonheme manganese(IV) complex: epoxidations by a metallo-peracid produces gentle selective oxidations. *Journal of the American Chemical Society*, **2005**, 127, 17170-1	16.4	73
6	The mechanic study of the Pd-catalyzed synthesis of diphenylcarbonate with heteropolyacid as a cocatalyst. *Journal of Organometallic Chemistry*, **2003**, 674, 96-100	2.3	15
5	A new efficient Pd-catalyzed synthesis of diphenyl carbonate with heteropolyacid as a cocatalyst. *Journal of Organometallic Chemistry*, **2001**, 630, 11-16	2.3	19
4	Cu(OAc)2-catalyzed partial oxidation of methane to methyl trifluoroacetate in the liquid phase. *Applied Organometallic Chemistry*, **2000**, 14, 438-442	3.1	24
3	A new and efficient catalytic system for synthesis of diphenyl carbonate with W/Mo-heteropolyacids as a cocatalyst. *Catalysis Letters*, **2000**, 69, 89-91	2.8	13
2	Z/E Effect on Phase Behavior of Main-Chain Liquid Crystalline Polymers Bearing AIEgens. *Macromolecules*,	5.5	3
1	Advances in value-added aromatics by oxidation of lignin with transition metal complexes. *Transition Metal Chemistry*,1	2.1	1