

Wonwoo Nam

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	High-Valent Iron(IV)â€“Oxo Complexes of Heme and Non-Heme Ligands in Oxygenation Reactions. <i>Accounts of Chemical Research</i> , 2007, 40, 522-531.	7.6	1,035
2	Crystallographic and Spectroscopic Characterization of a Nonheme Fe(IV)â€“O Complex. <i>Science</i> , 2003, 299, 1037-1039.	6.0	870
3	A Highly Selective Fluorescent Chemosensor for Pb ²⁺ . <i>Journal of the American Chemical Society</i> , 2005, 127, 10107-10111.	6.6	618
4	Nonheme FeIVO Complexes That Can Oxidize the C-H Bonds of Cyclohexane at Room Temperature. <i>Journal of the American Chemical Society</i> , 2004, 126, 472-473.	6.6	591
5	Photofunctional triplet excited states of cyclometalated Ir(III) complexes: beyond electroluminescence. <i>Chemical Society Reviews</i> , 2012, 41, 7061.	18.7	583
6	A Highly Active Zinc Catalyst for the Controlled Polymerization of Lactide. <i>Journal of the American Chemical Society</i> , 2003, 125, 11350-11359.	6.6	579
7	Tuning Reactivity and Mechanism in Oxidation Reactions by Mononuclear Nonheme Iron(IV)-Oxo Complexes. <i>Accounts of Chemical Research</i> , 2014, 47, 1146-1154.	7.6	434
8	Status of Reactive Non-Heme Metalâ€“Oxygen Intermediates in Chemical and Enzymatic Reactions. <i>Journal of the American Chemical Society</i> , 2014, 136, 13942-13958.	6.6	391
9	Axial ligand tuning of a nonheme iron(IV)â€“oxo unit for hydrogen atom abstraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 19181-19186.	3.3	376
10	An FeIVO complex of a tetradentate tripodal nonheme ligand. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 3665-3670.	3.3	322
11	Structure and reactivity of a mononuclear non-haem iron(III)â€“peroxo complex. <i>Nature</i> , 2011, 478, 502-505.	13.7	292
12	Heme and Nonheme High-Valent Iron and Manganese Oxo Cores in Biological and Abiological Oxidation Reactions. <i>ACS Central Science</i> , 2019, 5, 13-28.	5.3	275
13	Synthetic Mononuclear Nonheme Ironâ€“Oxygen Intermediates. <i>Accounts of Chemical Research</i> , 2015, 48, 2415-2423.	7.6	264
14	A Thiolate-Ligated Nonheme Oxoiron(IV) Complex Relevant to Cytochrome P450. <i>Science</i> , 2005, 310, 1000-1002.	6.0	246
15	Dioxygen Activation by Metalloenzymes and Models. <i>Accounts of Chemical Research</i> , 2007, 40, 465-465.	7.6	241
16	Synthesis, Characterization, and Reactivities of Manganese(V)â€“Oxo Porphyrin Complexes. <i>Journal of the American Chemical Society</i> , 2007, 129, 1268-1277.	6.6	238
17	Phosphorescent Sensor for Robust Quantification of Copper(II) Ion. <i>Journal of the American Chemical Society</i> , 2011, 133, 11488-11491.	6.6	238
18	New Insights into the Mechanisms of O-O Bond Cleavage of Hydrogen Peroxide and tert-Alkyl Hydroperoxides by Iron(III) Porphyrin Complexes. <i>Journal of the American Chemical Society</i> , 2000, 122, 8677-8684.	6.6	233

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19	Reactivities of Mononuclear Non-Heme Iron Intermediates Including Evidence that Iron(III)-Hydroperoxo Species Is a Sluggish Oxidant. <i>Journal of the American Chemical Society</i> , 2006, 128, 2630-2634.	6.6	230
20	Crystal structure of a metal ion-bound oxoiron(IV) complex and implications for biological electron transfer. <i>Nature Chemistry</i> , 2010, 2, 756-759.	6.6	227
21	Phosphorescent Sensor for Biological Mobile Zinc. <i>Journal of the American Chemical Society</i> , 2011, 133, 18328-18342.	6.6	217
22	Iron-cyclam complexes as catalysts for the epoxidation of olefins by 30% aqueous hydrogen peroxide in acetonitrile and methanol. <i>Journal of the American Chemical Society</i> , 1991, 113, 7052-7054.	6.6	208
23	Water-soluble mononuclear cobalt complexes with organic ligands acting as precatalysts for efficient photocatalytic water oxidation. <i>Energy and Environmental Science</i> , 2012, 5, 7606.	15.6	208
24	A Two-State Reactivity Rationale for Counterintuitive Axial Ligand Effects on the C-H Activation Reactivity of Nonheme Fe(IV)=O Oxidants. <i>Chemistry - A European Journal</i> , 2008, 14, 1740-1756.	1.7	198
25	A Highly Reactive Mononuclear Non-Heme Manganese(IV)-Oxo Complex That Can Activate the Strong C-H Bonds of Alkanes. <i>Journal of the American Chemical Society</i> , 2011, 133, 20088-20091.	6.6	198
26	Metal Complex-Catalyzed Epoxidation of Olefins by Dioxygen with Co-Oxidation of Aldehydes. A Mechanistic Study. <i>Inorganic Chemistry</i> , 1996, 35, 1045-1049.	1.9	197
27	Mononuclear Metal(II) Complexes Bearing Macrocyclic N-Tetramethylated Cyclam Ligands. <i>Accounts of Chemical Research</i> , 2012, 45, 1321-1330.	7.6	187
28	A Mononuclear Non-Heme Manganese(IV)-Oxo Complex Binding Redox-Inactive Metal Ions. <i>Journal of the American Chemical Society</i> , 2013, 135, 6388-6391.	6.6	182
29	Axial Ligand Effects on the Geometric and Electronic Structures of Nonheme Oxoiron(IV) Complexes. <i>Journal of the American Chemical Society</i> , 2008, 130, 12394-12407.	6.6	177
30	Combined Experimental and Theoretical Study on Aromatic Hydroxylation by Mononuclear Nonheme Iron(IV)-Oxo Complexes. <i>Inorganic Chemistry</i> , 2007, 46, 4632-4641.	1.9	174
31	Metal Ion-Coupled Electron Transfer of a Nonheme Oxoiron(IV) Complex: Remarkable Enhancement of Electron-Transfer Rates by Sc ³⁺ . <i>Journal of the American Chemical Society</i> , 2011, 133, 403-405.	6.6	172
32	A mononuclear nonheme iron(IV)-oxo complex which is more reactive than cytochrome P450 model compound I. <i>Chemical Science</i> , 2011, 2, 1039.	3.7	170
33	Metal Ion Effect on the Switch of Mechanism from Direct Oxygen Transfer to Metal Ion-Coupled Electron Transfer in the Sulfoxidation of Thioanisoles by a Non-Heme Iron(IV)-Oxo Complex. <i>Journal of the American Chemical Society</i> , 2011, 133, 5236-5239.	6.6	169
34	To rebound or dissociate? This is the mechanistic question in C-H hydroxylation by heme and nonheme metal-oxo complexes. <i>Chemical Society Reviews</i> , 2016, 45, 1197-1210.	18.7	167
35	Iron and manganese oxo complexes, oxo wall and beyond. <i>Nature Reviews Chemistry</i> , 2020, 4, 404-419.	13.8	167
36	Water Oxidation Catalysis with Nonheme Iron Complexes under Acidic and Basic Conditions: Homogeneous or Heterogeneous?. <i>Inorganic Chemistry</i> , 2013, 52, 9522-9531.	1.9	164

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37	Mechanistic Insight into Alcohol Oxidation by High-Valent Iron-Oxo Complexes of Heme and Nonheme Ligands. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 4235-4239.	7.2	157
38	Dioxygen Activation by a Non-Heme Iron(II) Complex: Formation of an Iron(IV) =O Complex via C-H Activation by a Putative Iron(III) =O Superoxo Species. <i>Journal of the American Chemical Society</i> , 2010, 132, 10668-10670.	6.6	157
39	Intrinsic properties and reactivities of mononuclear nonheme iron =O complexes bearing the tetramethylcyclam ligand. <i>Coordination Chemistry Reviews</i> , 2013, 257, 381-393.	9.5	157
40	Oxoiron(IV) porphyrin π -cation radical complexes with a chameleon behavior in cytochrome P450 model reactions. <i>Journal of Biological Inorganic Chemistry</i> , 2005, 10, 294-304.	1.1	153
41	Geometric and electronic structure and reactivity of a mononuclear π -side-on =O nickel(III) =O peroxo complex. <i>Nature Chemistry</i> , 2009, 1, 568-572.	6.6	153
42	Evidence for the Participation of Two Distinct Reactive Intermediates in Iron(III) Porphyrin Complex-Catalyzed Epoxidation Reactions. <i>Journal of the American Chemical Society</i> , 2000, 122, 6641-6647.	6.6	150
43	Structural Insights into Nonheme Alkylperoxoiron(III) and Oxoiron(IV) Intermediates by X-ray Absorption Spectroscopy. <i>Journal of the American Chemical Society</i> , 2004, 126, 16750-16761.	6.6	149
44	Axial Ligand Substituted Nonheme FeIVO Complexes: Observation of Near-UV LMCT Bands and FeO Raman Vibrations. <i>Journal of the American Chemical Society</i> , 2005, 127, 12494-12495.	6.6	149
45	First Direct Evidence for Stereospecific Olefin Epoxidation and Alkane Hydroxylation by an Oxoiron(IV) Porphyrin Complex. <i>Journal of the American Chemical Society</i> , 2003, 125, 14674-14675.	6.6	146
46	Spectroscopic Capture and Reactivity of a Low-Spin Cobalt(IV) =O Complex Stabilized by Binding Redox-Inactive Metal Ions. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10403-10407.	7.2	145
47	Fundamental Electron-Transfer Properties of Non-heme Oxoiron(IV) Complexes. <i>Journal of the American Chemical Society</i> , 2008, 130, 434-435.	6.6	144
48	Cobalt analogs of Ru-based water oxidation catalysts: overcoming thermodynamic instability and kinetic lability to achieve electrocatalytic O ₂ evolution. <i>Chemical Science</i> , 2012, 3, 3058.	3.7	140
49	Dioxygen Activation and Catalytic Aerobic Oxidation by a Mononuclear Nonheme Iron(II) Complex. <i>Journal of the American Chemical Society</i> , 2005, 127, 4178-4179.	6.6	139
50	Reevaluation of the significance of oxygen-18 incorporation in metal complex-catalyzed oxygenation reactions carried out in the presence of oxygen-18-labeled water (H ₂ ¹⁸ O). <i>Journal of the American Chemical Society</i> , 1993, 115, 1772-1778.	6.6	138
51	Significant Electronic Effect of Porphyrin Ligand on the Reactivities of High-Valent Iron(IV) Oxo Porphyrin Cation Radical Complexes. <i>Inorganic Chemistry</i> , 1999, 38, 914-920.	1.9	137
52	Evidence for an Alternative to the Oxygen Rebound Mechanism in C-H Bond Activation by Non-Heme Fe ^{IV} =O Complexes. <i>Journal of the American Chemical Society</i> , 2012, 134, 20222-20225.	6.6	137
53	Cyclometalated Iridium(III) Complexes for Phosphorescence Sensing of Biological Metal Ions. <i>Inorganic Chemistry</i> , 2014, 53, 1804-1815.	1.9	137
54	Dioxygen activation chemistry by synthetic mononuclear nonheme iron, copper and chromium complexes. <i>Coordination Chemistry Reviews</i> , 2017, 334, 25-42.	9.5	136

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55	Isolation of an Oxomanganese(V) Porphyrin Intermediate in the Reaction of a Manganese(III) Porphyrin Complex and H ₂ O ₂ in Aqueous Solution. <i>Chemistry - A European Journal</i> , 2002, 8, 2067-2071.	1.7	135
56	Redox-inactive metal ions modulate the reactivity and oxygen release of mononuclear non-haem iron(III)â€peroxo complexes. <i>Nature Chemistry</i> , 2014, 6, 934-940.	6.6	135
57	Lewis Acid Coupled Electron Transfer of Metalâ€Oxygen Intermediates. <i>Chemistry - A European Journal</i> , 2015, 21, 17548-17559.	1.7	132
58	Synthesis and reactivity of a mononuclear non-haem cobalt(IV)-oxo complex. <i>Nature Communications</i> , 2017, 8, 14839.	5.8	132
59	Enhanced Electron-Transfer Reactivity of Nonheme Manganese(IV)â€Oxo Complexes by Binding Scandium Ions. <i>Journal of the American Chemical Society</i> , 2013, 135, 9186-9194.	6.6	131
60	Determination of Reactive Intermediates in Iron Porphyrin Complex-Catalyzed Oxygenations of Hydrocarbons Using Isotopically Labeled Water: A Mechanistic Insights. <i>Journal of the American Chemical Society</i> , 1997, 119, 1916-1922.	6.6	130
61	[Mn(tmc)(O ₂)] ⁺ : A Side-On Peroxido Manganese(III) Complex Bearing a Non-Heme Ligand. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 377-380.	7.2	127
62	Highly efficient photocatalytic oxygenation reactions using water as an oxygen source. <i>Nature Chemistry</i> , 2011, 3, 38-41.	6.6	126
63	Anionic Ligand Effect on the Nature of Epoxidizing Intermediates in Iron Porphyrin Complex-Catalyzed Epoxidation Reactions. <i>Inorganic Chemistry</i> , 2002, 41, 3647-3652.	1.9	124
64	Synthesis, Structural, and Spectroscopic Characterization and Reactivities of Mononuclear Cobalt(III)â€Peroxo Complexes. <i>Journal of the American Chemical Society</i> , 2010, 132, 16977-16986.	6.6	124
65	Fluorescent Zinc Sensor with Minimized Proton-Induced Interferences: Photophysical Mechanism for Fluorescence Turn-On Response and Detection of Endogenous Free Zinc Ions. <i>Inorganic Chemistry</i> , 2012, 51, 8760-8774.	1.9	119
66	Synthetic Control Over Photoinduced Electron Transfer in Phosphorescence Zinc Sensors. <i>Journal of the American Chemical Society</i> , 2013, 135, 4771-4787.	6.6	119
67	Identification of an â€End-onâ€Nickelâ€Superoxo Adduct, [Ni(tmc)(O ₂)] ⁺ . <i>Journal of the American Chemical Society</i> , 2006, 128, 14230-14231.	6.6	118
68	A Manganese(V)â€Oxo Complex: Synthesis by Dioxygen Activation and Enhancement of Its Oxidizing Power by Binding Scandium Ion. <i>Journal of the American Chemical Society</i> , 2016, 138, 8523-8532.	6.6	118
69	Crystallographic and spectroscopic characterization and reactivities of a mononuclear non-haem iron(III)-superoxo complex. <i>Nature Communications</i> , 2014, 5, 5440.	5.8	117
70	An â€End-Onâ€Chromium(III)-Superoxo Complex: Crystallographic and Spectroscopic Characterization and Reactivity in Câ€H Bond Activation of Hydrocarbons. <i>Journal of the American Chemical Society</i> , 2010, 132, 5958-5959.	6.6	116
71	Thermal and photocatalytic production of hydrogen with earth-abundant metal complexes. <i>Coordination Chemistry Reviews</i> , 2018, 355, 54-73.	9.5	116
72	Structural Characterization and Remarkable Axial Ligand Effect on the Nucleophilic Reactivity of a Nonheme Manganese(III)â€Peroxo Complex. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4150-4153.	7.2	115

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73	Oxidizing intermediates in cytochrome P450 model reactions. <i>Journal of Biological Inorganic Chemistry</i> , 2004, 9, 654-660.	1.1	114
74	Proton-Promoted and Anion-Enhanced Epoxidation of Olefins by Hydrogen Peroxide in the Presence of Nonheme Manganese Catalysts. <i>Journal of the American Chemical Society</i> , 2016, 138, 936-943.	6.6	114
75	Hydrogen Atom Abstraction and Hydride Transfer Reactions by Iron(IV)â€“Oxo Porphyrins. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7321-7324.	7.2	113
76	Transition metal-mediated Oâ€“O bond formation and activation in chemistry and biology. <i>Chemical Society Reviews</i> , 2021, 50, 4804-4811.	18.7	113
77	Direct Evidence for Oxygen-Atom Exchange between Nonheme Oxoiron(IV) Complexes and Isotopically Labeled Water. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2417-2420.	7.2	111
78	Unified View of Oxidative Câ€“H Bond Cleavage and Sulfoxidation by a Nonheme Iron(IV)â€“Oxo Complex via Lewis Acid-Promoted Electron Transfer. <i>Inorganic Chemistry</i> , 2014, 53, 3618-3628.	1.9	111
79	Enhanced Reactivities of Iron(IV)â€“Oxo Porphyrin ĩ€â€“Cation Radicals in Oxygenation Reactions by Electronâ€“Donating Axial Ligands. <i>Chemistry - A European Journal</i> , 2009, 15, 10039-10046.	1.7	110
80	Reactive Intermediates in Oxygenation Reactions with Mononuclear Nonheme Iron Catalysts. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1257-1260.	7.2	107
81	Dioxygen Activation by Mononuclear Nonheme Iron(II) Complexes Generates Ironâ€“Oxygen Intermediates in the Presence of an NADH Analogue and Proton. <i>Journal of the American Chemical Society</i> , 2009, 131, 13910-13911.	6.6	107
82	Catalytic Four-Electron Reduction of O ₂ via Rate-Determining Proton-Coupled Electron Transfer to a Dinuclear Cobalt-1,2-peroxo Complex. <i>Journal of the American Chemical Society</i> , 2012, 134, 9906-9909.	6.6	106
83	Solarâ€“Driven Production of Hydrogen Peroxide from Water and Dioxygen. <i>Chemistry - A European Journal</i> , 2018, 24, 5016-5031.	1.7	106
84	Comparison of High-Spin and Low-Spin Nonheme Fe ^{III} â€“OOH Complexes in Oâ€“O Bond Homolysis and H-Atom Abstraction Reactivities. <i>Journal of the American Chemical Society</i> , 2013, 135, 3286-3299.	6.6	105
85	Mechanisms of catalytic reduction of CO ₂ with heme and nonheme metal complexes. <i>Chemical Science</i> , 2018, 9, 6017-6034.	3.7	105
86	Participation of Two Distinct Hydroxylating Intermediates in Iron(III) Porphyrin Complex-Catalyzed Hydroxylation of Alkanes. <i>Journal of the American Chemical Society</i> , 2000, 122, 10805-10809.	6.6	104
87	Formation, stability, and reactivity of a mononuclear nonheme oxoiron(IV) complex in aqueous solution. <i>Chemical Communications</i> , 2005, , 1405.	2.2	102
88	Remarkable Anionic Axial Ligand Effects of Iron(III) Porphyrin Complexes on the Catalytic Oxygenations of Hydrocarbons by H ₂ O ₂ and the Formation of Oxoiron(IV) Porphyrin Intermediates by m-Chloroperoxybenzoic Acid. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 3646-3649.	7.2	101
89	Nonheme Oxoiron(IV) Complexes of Tris(2-pyridylmethyl)amine with cis-Monoanionic Ligands. <i>Inorganic Chemistry</i> , 2006, 45, 6435-6445.	1.9	101
90	Oxidative N-Dealkylation Reactions by Oxoiron(IV) Complexes of Nonheme and Heme Ligands. <i>Inorganic Chemistry</i> , 2007, 46, 293-298.	1.9	101

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91	Hydrogen-Atom Abstraction Reactions by Manganese(V) and Manganese(IV) Oxo Porphyrin Complexes in Aqueous Solution. <i>Chemistry - A European Journal</i> , 2009, 15, 11482-11489.	1.7	100
92	Water as an Oxygen Source in the Generation of Mononuclear Nonheme Iron(IV) Oxo Complexes. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1803-1806.	7.2	98
93	A highly efficient non-heme manganese complex in oxygenation reactions. <i>Chemical Communications</i> , 2007, , 4623.	2.2	97
94	First success of catalytic epoxidation of olefins by an electron-rich iron(III) porphyrin complex and H ₂ O ₂ : imidazole effect on the activation of H ₂ O ₂ by iron porphyrin complexes in aprotic solvent. <i>Journal of Inorganic Biochemistry</i> , 2000, 80, 219-225.	1.5	96
95	Ligand Topology Effect on the Reactivity of a Mononuclear Nonheme Iron(IV)-Oxo Complex in Oxygenation Reactions. <i>Journal of the American Chemical Society</i> , 2011, 133, 11876-11879.	6.6	94
96	Brønsted Acid-Promoted C-H Bond Cleavage via Electron Transfer from Toluene Derivatives to a Protonated Nonheme Iron(IV)-Oxo Complex with No Kinetic Isotope Effect. <i>Journal of the American Chemical Society</i> , 2013, 135, 5052-5061.	6.6	94
97	Hydrogen Atom Transfer Reactions of Mononuclear Nonheme Metal-Oxygen Intermediates. <i>Accounts of Chemical Research</i> , 2018, 51, 2014-2022.	7.6	94
98	Mononuclear nickel(ii)-superoxo and nickel(iii)-peroxo complexes bearing a common macrocyclic TMC ligand. <i>Chemical Science</i> , 2013, 4, 1502.	3.7	93
99	Fuel Production from Seawater and Fuel Cells Using Seawater. <i>ChemSusChem</i> , 2017, 10, 4264-4276.	3.6	93
100	Reversible Formation of Iodosylbenzene-Iron Porphyrin Intermediates in the Reaction of Oxoiron(IV) Porphyrin-Cation Radicals and Iodobenzene. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 109-111.	7.2	91
101	Zinc(II) complexes and aluminum(III) porphyrin complexes catalyze the epoxidation of olefins by iodosylbenzene. <i>Journal of the American Chemical Society</i> , 1990, 112, 4977-4979.	6.6	90
102	Water as an Oxygen Source: Synthesis, Characterization, and Reactivity Studies of a Mononuclear Nonheme Manganese(IV) Oxo Complex. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8190-8194.	7.2	90
103	Tuning the reactivity of mononuclear nonheme manganese(IV)-oxo complexes by triflic acid. <i>Chemical Science</i> , 2015, 6, 3624-3632.	3.7	87
104	Bioinspired Chemical Inversion of α -Amino Acids to β -Amino Acids. <i>Journal of the American Chemical Society</i> , 2007, 129, 1518-1519.	6.6	86
105	Proton-Promoted Oxygen Atom Transfer vs Proton-Coupled Electron Transfer of a Non-Heme Iron(IV)-Oxo Complex. <i>Journal of the American Chemical Society</i> , 2012, 134, 3903-3911.	6.6	86
106	Interplay of Experiment and Theory in Elucidating Mechanisms of Oxidation Reactions by a Nonheme Ru(IV)=O Complex. <i>Journal of the American Chemical Society</i> , 2015, 137, 8623-8632.	6.6	85
107	Amphoteric reactivity of metal-oxygen complexes in oxidation reactions. <i>Coordination Chemistry Reviews</i> , 2018, 365, 41-59.	9.5	85
108	Sequential Electron-Transfer and Proton-Transfer Pathways in Hydride-Transfer Reactions from Dihyronicotinamide Adenine Dinucleotide Analogues to Non-heme Oxoiron(IV) Complexes and <i>p</i> -Chloranil. Detection of Radical Cations of NADH Analogues in Acid-Promoted Hydride-Transfer Reactions. <i>Journal of the American Chemical Society</i> , 2008, 130, 15134-15142.	6.6	84

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109	Factors That Control Catalytic Two- versus Four-Electron Reduction of Dioxygen by Copper Complexes. <i>Journal of the American Chemical Society</i> , 2012, 134, 7025-7035.	6.6	84
110	Mononuclear nonheme ferric-peroxo complex in aldehyde deformylation. <i>Chemical Communications</i> , 2005, , 4529.	2.2	82
111	How Does the Axial Ligand of Cytochrome P450 Biomimetics Influence the Regioselectivity of Aliphatic versus Aromatic Hydroxylation?. <i>Chemistry - A European Journal</i> , 2009, 15, 5577-5587.	1.7	82
112	Protonation Equilibrium and Hydrogen Production by a Dinuclear Cobalt-Hydride Complex Reduced by Cobaltocene with Trifluoroacetic Acid. <i>Journal of the American Chemical Society</i> , 2013, 135, 15294-15297.	6.6	82
113	Mechanisms of Two-Electron versus Four-Electron Reduction of Dioxygen Catalyzed by Earth-Abundant Metal Complexes. <i>ChemCatChem</i> , 2018, 10, 9-28.	1.8	82
114	Artificial nonheme iron and manganese oxygenases for enantioselective olefin epoxidation and alkane hydroxylation reactions. <i>Coordination Chemistry Reviews</i> , 2020, 421, 213443.	9.5	82
115	Reversible O-O Bond Cleavage and Formation between Mn(IV)-Peroxo and Mn(V)-Oxo Corroles. <i>Journal of the American Chemical Society</i> , 2010, 132, 14030-14032.	6.6	81
116	Water-Soluble Iron Porphyrin Complex-Catalyzed Epoxidation of Olefins with Hydrogen Peroxide and tert-Butyl Hydroperoxide in Aqueous Solution. <i>Inorganic Chemistry</i> , 1998, 37, 606-607.	1.9	80
117	Effect of Anionic Axial Ligands on the Formation of Oxoiron(IV) Porphyrin Intermediates. <i>Inorganic Chemistry</i> , 2000, 39, 5572-5575.	1.9	79
118	Crystal structure of the two-dimensional framework [Mn(salen)] ₄ n[Re ₆ Te ₈ (CN) ₆] _n [salen = N,N'-ethylenebis(salicylideneaminato)]. <i>Chemical Communications</i> , 2001, , 1470-1471.	2.2	79
119	High conversion of olefins to cis-diols by non-heme iron catalysts and H ₂ O ₂ . <i>Chemical Communications</i> , 2002, , 1288-1289.	2.2	79
120	Factors Affecting the Catalytic Epoxidation of Olefins by Iron Porphyrin Complexes and H ₂ O ₂ in Protic Solvents. <i>Journal of Organic Chemistry</i> , 2003, 68, 7903-7906.	1.7	79
121	A mononuclear nonheme iron(III)-peroxo complex binding redox-inactive metal ions. <i>Chemical Science</i> , 2013, 4, 3917.	3.7	79
122	High-valent metal-oxo intermediates in energy demanding processes: from dioxygen reduction to water splitting. <i>Current Opinion in Chemical Biology</i> , 2015, 25, 159-171.	2.8	79
123	Effect of Porphyrin Ligands on the Regioselective Dehydrogenation versus Epoxidation of Olefins by Oxoiron(IV) Mimics of Cytochrome P450. <i>Journal of Physical Chemistry A</i> , 2009, 113, 11713-11722.	1.1	78
124	Electron-Transfer Reduction of Dinuclear Copper Peroxo and Bis-oxo Complexes Leading to the Catalytic Four-Electron Reduction of Dioxygen to Water. <i>Chemistry - A European Journal</i> , 2012, 18, 1084-1093.	1.7	78
125	Theoretical Investigations into C-H Bond Activation Reaction by Nonheme Mn ^{IV} O Complexes: Multistate Reactivity with No Oxygen Rebound. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2851-2856.	2.1	77
126	Identifying Intermediates in Electrocatalytic Water Oxidation with a Manganese Corrole Complex. <i>Journal of the American Chemical Society</i> , 2021, 143, 14613-14621.	6.6	77

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127	Biomimetic Alkane Hydroxylations by an Iron(III) Porphyrin Complex with H ₂ O ₂ and by a High-Valent Iron(IV) Oxo Porphyrin Cation Radical Complex. <i>Inorganic Chemistry</i> , 1999, 38, 3238-3240.	1.9	76
128	Scandium Ion-Enhanced Oxidative Dimerization and <i>N,N</i> -Demethylation of <i>N,N</i> -Dimethylanilines by a Non-Heme Iron(IV)-Oxo Complex. <i>Inorganic Chemistry</i> , 2011, 50, 11612-11622.	1.9	76
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