Wonwoo Nam

List of Publications by Year
in descending order

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374 papers	29,435 citations	2797 / 94 h-index	7944 / 149 g-index
407 all docs	407 docs citations	407 times ranked	13499 citing authors

#	Article	IF	Citations
1	High-Valent Iron(IV)â€"Oxo Complexes of Heme and Non-Heme Ligands in Oxygenation Reactions. Accounts of Chemical Research, 2007, 40, 522-531.	7.6	1,035
2	Crystallographic and Spectroscopic Characterization of a Nonheme Fe(IV)&cjs0811;O Complex. Science, 2003, 299, 1037-1039.	6.0	870
3	A Highly Selective Fluorescent Chemosensor for Pb2+. Journal of the American Chemical Society, 2005, 127, 10107-10111.	6.6	618
4	Nonheme FeIVO Complexes That Can Oxidize the Câ^'H Bonds of Cyclohexane at Room Temperature. Journal of the American Chemical Society, 2004, 126, 472-473.	6.6	591
5	Photofunctional triplet excited states of cyclometalated Ir(iii) complexes: beyond electroluminescence. Chemical Society Reviews, 2012, 41, 7061.	18.7	583
6	A Highly Active Zinc Catalyst for the Controlled Polymerization of Lactide. Journal of the American Chemical Society, 2003, 125, 11350-11359.	6.6	579
7	Tuning Reactivity and Mechanism in Oxidation Reactions by Mononuclear Nonheme Iron(IV)-Oxo Complexes. Accounts of Chemical Research, 2014, 47, 1146-1154.	7.6	434
8	Status of Reactive Non-Heme Metalâ€"Oxygen Intermediates in Chemical and Enzymatic Reactions. Journal of the American Chemical Society, 2014, 136, 13942-13958.	6.6	391
9	Axial ligand tuning of a nonheme iron(IV)â€"oxo unit for hydrogen atom abstraction. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19181-19186.	3.3	376
10	An FeIVO complex of a tetradentate tripodal nonheme ligand. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3665-3670.	3.3	322
11	Structure and reactivity of a mononuclear non-haem iron(III)â€"peroxo complex. Nature, 2011, 478, 502-505.	13.7	292
12	Heme and Nonheme High-Valent Iron and Manganese Oxo Cores in Biological and Abiological Oxidation Reactions. ACS Central Science, 2019, 5, 13-28.	5.3	275
13	Synthetic Mononuclear Nonheme Ironâ€"Oxygen Intermediates. Accounts of Chemical Research, 2015, 48, 2415-2423.	7.6	264
14	A Thiolate-Ligated Nonheme Oxoiron(IV) Complex Relevant to Cytochrome P450. Science, 2005, 310, 1000-1002.	6.0	246
15	Dioxygen Activation by Metalloenzymes and Models. Accounts of Chemical Research, 2007, 40, 465-465.	7.6	241
16	Synthesis, Characterization, and Reactivities of Manganese(V)â^'Oxo Porphyrin Complexes. Journal of the American Chemical Society, 2007, 129, 1268-1277.	6.6	238
17	Phosphorescent Sensor for Robust Quantification of Copper(II) Ion. Journal of the American Chemical Society, 2011, 133, 11488-11491.	6.6	238
18	New Insights into the Mechanisms of Oâ^'O Bond Cleavage of Hydrogen Peroxide andtert-Alkyl Hydroperoxides by Iron(III) Porphyrin Complexes. Journal of the American Chemical Society, 2000, 122, 8677-8684.	6.6	233

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19	Reactivities of Mononuclear Non-Heme Iron Intermediates Including Evidence that Iron(III)â^'Hydroperoxo Species Is a Sluggish Oxidant. Journal of the American Chemical Society, 2006, 128, 2630-2634.	6.6	230
20	Crystal structure of a metal ion-bound oxoiron(IV) complex and implications for biological electron transfer. Nature Chemistry, 2010, 2, 756-759.	6.6	227
21	Phosphorescent Sensor for Biological Mobile Zinc. Journal of the American Chemical Society, 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. Journal of the American Chemical Society, 1991, 113, 7052-7054.	6.6	208
23	Water-soluble mononuclear cobalt complexes with organic ligands acting as precatalysts for efficient photocatalytic water oxidation. Energy and Environmental Science, 2012, 5, 7606.	15.6	208
24	A Twoâ€State Reactivity Rationale for Counterintuitive Axial Ligand Effects on the Cï£¿H Activation Reactivity of Nonheme Fe^{IV}ï£¾O Oxidants. Chemistry - A European Journal, 2008, 14, 1740-1756.	1.7	198
25	A Highly Reactive Mononuclear Non-Heme Manganese(IV)â€"Oxo Complex That Can Activate the Strong Câ€"H Bonds of Alkanes. Journal of the American Chemical Society, 2011, 133, 20088-20091.	6.6	198
26	Metal Complex-Catalyzed Epoxidation of Olefins by Dioxygen with Co-Oxidation of Aldehydes. A Mechanistic Study. Inorganic Chemistry, 1996, 35, 1045-1049.	1.9	197
27	Mononuclear Metalâ€"O₂ Complexes Bearing Macrocyclic <i>N</i>-Tetramethylated Cyclam Ligands. Accounts of Chemical Research, 2012, 45, 1321-1330.	7.6	187
28	A Mononuclear Non-Heme Manganese(IV)â€"Oxo Complex Binding Redox-Inactive Metal Ions. Journal of the American Chemical Society, 2013, 135, 6388-6391.	6.6	182
29	Axial Ligand Effects on the Geometric and Electronic Structures of Nonheme Oxoiron(IV) Complexes. Journal of the American Chemical Society, 2008, 130, 12394-12407.	6.6	177
30	Combined Experimental and Theoretical Study on Aromatic Hydroxylation by Mononuclear Nonheme Iron(IV)â^'Oxo Complexes. Inorganic Chemistry, 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 Sc³⁺. Journal of the American Chemical Society, 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. Chemical Science, 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)â^'Oxo Complex. Journal of the American Chemical Society, 2011, 133, 5236-5239.	6.6	169
34	To rebound or dissociate? This is the mechanistic question in Câ€"H hydroxylation by heme and nonheme metalâ€"oxo complexes. Chemical Society Reviews, 2016, 45, 1197-1210.	18.7	167
35	Iron and manganese oxo complexes, oxo wall and beyond. Nature Reviews Chemistry, 2020, 4, 404-419.	13.8	167
36	Water Oxidation Catalysis with Nonheme Iron Complexes under Acidic and Basic Conditions: Homogeneous or Heterogeneous?. Inorganic Chemistry, 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. Angewandte Chemie - International Edition, 2005, 44, 4235-4239.	7.2	157
38	Dioxygen Activation by a Non-Heme Iron(II) Complex: Formation of an Iron(IV)â˘'Oxo Complex via Câ˘'H Activation by a Putative Iron(III)â˘'Superoxo Species. Journal of the American Chemical Society, 2010, 132, 10668-10670.	6.6	157
39	Intrinsic properties and reactivities of mononuclear nonheme ironâ€"oxygen complexes bearing the tetramethylcyclam ligand. Coordination Chemistry Reviews, 2013, 257, 381-393.	9.5	157
40	Oxoiron(IV) porphyrin Ï€-cation radical complexes with a chameleon behavior in cytochrome P450 model reactions. Journal of Biological Inorganic Chemistry, 2005, 10, 294-304.	1.1	153
41	Geometric and electronic structure and reactivity of a mononuclear â€˜side-onâ€™ nickel(iii)â€"peroxo complex. Nature Chemistry, 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. Journal of the American Chemical Society, 2000, 122, 6641-6647.	6.6	150
43	Structural Insights into Nonheme Alkylperoxoiron(III) and Oxoiron(IV) Intermediates by X-ray Absorption Spectroscopy. Journal of the American Chemical Society, 2004, 126, 16750-16761.	6.6	149
44	Axial Ligand Substituted Nonheme FeIVO Complexes:â€‰ Observation of Near-UV LMCT Bands and FeO Raman Vibrations. Journal of the American Chemical Society, 2005, 127, 12494-12495.	6.6	149
45	First Direct Evidence for Stereospecific Olefin Epoxidation and Alkane Hydroxylation by an Oxoiron(IV) Porphyrin Complex. Journal of the American Chemical Society, 2003, 125, 14674-14675.	6.6	146
46	Spectroscopic Capture and Reactivity of a Lowâ€Spin Cobalt(IV)â€Oxo Complex Stabilized by Binding Redoxâ€Inactive Metal Ions. Angewandte Chemie - International Edition, 2014, 53, 10403-10407.	7.2	145
47	Fundamental Electron-Transfer Properties of Non-heme Oxoiron(IV) Complexes. Journal of the American Chemical Society, 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 O2 evolution. Chemical Science, 2012, 3, 3058.	3.7	140
49	Dioxygen Activation and Catalytic Aerobic Oxidation by a Mononuclear Nonheme Iron(II) Complex. Journal of the American Chemical Society, 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 (H218O). Journal of the American Chemical Society, 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. Inorganic Chemistry, 1999, 38, 914-920.	1.9	137
52	Evidence for an Alternative to the Oxygen Rebound Mechanism in Câ€"H Bond Activation by Non-Heme Fe^{IV}O Complexes. Journal of the American Chemical Society, 2012, 134, 20222-20225.	6.6	137
53	Cyclometalated Iridium(III) Complexes for Phosphorescence Sensing of Biological Metal Ions. Inorganic Chemistry, 2014, 53, 1804-1815.	1.9	137
54	Dioxygen activation chemistry by synthetic mononuclear nonheme iron, copper and chromium complexes. Coordination Chemistry Reviews, 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 H2O2 in Aqueous Solution. Chemistry - A European Journal, 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. Nature Chemistry, 2014, 6, 934-940.	6.6	135
57	Lewis Acid Coupled Electron Transfer of Metalâ€“Oxygen Intermediates. Chemistry - A European Journal, 2015, 21, 17548-17559.	1.7	132
58	Synthesis and reactivity of a mononuclear non-haem cobalt(IV)-oxo complex. Nature Communications, 2017, 8, 14839.	5.8	132
59	Enhanced Electron-Transfer Reactivity of Nonheme Manganese(IV)â€“Oxo Complexes by Binding Scandium Ions. Journal of the American Chemical Society, 2013, 135, 9186-9194.	6.6	131
60	Determination of Reactive Intermediates in Iron Porphyrin Complex-Catalyzed Oxygenations of Hydrocarbons Using Isotopically Labeled Water:Â Mechanistic Insights. Journal of the American Chemical Society, 1997, 119, 1916-1922.	6.6	130
61	[Mn(tmc)(O2)]+: A Side-On Peroxido Manganese(III) Complex Bearing a Non-Heme Ligand. Angewandte Chemie - International Edition, 2007, 46, 377-380.	7.2	127
62	Highly efficient photocatalytic oxygenation reactions using water as an oxygen source. Nature Chemistry, 2011, 3, 38-41.	6.6	126
63	Anionic Ligand Effect on the Nature of Epoxidizing Intermediates in Iron Porphyrin Complex-Catalyzed Epoxidation Reactions. Inorganic Chemistry, 2002, 41, 3647-3652.	1.9	124
64	Synthesis, Structural, and Spectroscopic Characterization and Reactivities of Mononuclear Cobalt(III)â^'Peroxo Complexes. Journal of the American Chemical Society, 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. Inorganic Chemistry, 2012, 51, 8760-8774.	1.9	119
66	Synthetic Control Over Photoinduced Electron Transfer in Phosphorescence Zinc Sensors. Journal of the American Chemical Society, 2013, 135, 4771-4787.	6.6	119
67	Identification of an â€œEnd-onâ€•Nickelâ^'Superoxo Adduct, [Ni(tmc)(O2)]+. Journal of the American Chemical Society, 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. Journal of the American Chemical Society, 2016, 138, 8523-8532.	6.6	118
69	Crystallographic and spectroscopic characterization and reactivities of a mononuclear non-haem iron(III)-superoxo complex. Nature Communications, 2014, 5, 5440.	5.8	117
70	An â€œEnd-Onâ€•Chromium(III)-Superoxo Complex: Crystallographic and Spectroscopic Characterization and Reactivity in Câ^'H Bond Activation of Hydrocarbons. Journal of the American Chemical Society, 2010, 132, 5958-5959.	6.6	116
71	Thermal and photocatalytic production of hydrogen with earth-abundant metal complexes. Coordination Chemistry Reviews, 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. Angewandte Chemie - International Edition, 2009, 48, 4150-4153.	7.2	115

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73	Oxidizing intermediates in cytochrome P450 model reactions. Journal of Biological Inorganic Chemistry, 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. Journal of the American Chemical Society, 2016, 138, 936-943.	6.6	114
75	Hydrogen Atom Abstraction and Hydride Transfer Reactions by Iron(IV)â€“Oxo Porphyrins. Angewandte Chemie - International Edition, 2008, 47, 7321-7324.	7.2	113
76	Transition metal-mediated Oâ€“O bond formation and activation in chemistry and biology. Chemical Society Reviews, 2021, 50, 4804-4811.	18.7	113
77	Direct Evidence for Oxygen-Atom Exchange between Nonheme Oxoiron(IV) Complexes and Isotopically Labeled Water. Angewandte Chemie - International Edition, 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. Inorganic Chemistry, 2014, 53, 3618-3628.	1.9	111
79	Enhanced Reactivities of Iron(IV)â€Oxo Porphyrin Ï€â€Cation Radicals in Oxygenation Reactions by Electronâ€Donating Axial Ligands. Chemistry - A European Journal, 2009, 15, 10039-10046.	1.7	110
80	Reactive Intermediates in Oxygenation Reactions with Mononuclear Nonheme Iron Catalysts. Angewandte Chemie - International Edition, 2009, 48, 1257-1260.	7.2	107
81	Dioxygen Activation by Mononuclear Nonheme Iron(II) Complexes Generates Ironâˆ'Oxygen Intermediates in the Presence of an NADH Analogue and Proton. Journal of the American Chemical Society, 2009, 131, 13910-13911.	6.6	107
82	Catalytic Four-Electron Reduction of O₂ via Rate-Determining Proton-Coupled Electron Transfer to a Dinuclear Cobalt-Î¼-1,2-peroxo Complex. Journal of the American Chemical Society, 2012, 134, 9906-9909.	6.6	106
83	Solarâ€Driven Production of Hydrogen Peroxide from Water and Dioxygen. Chemistry - A European Journal, 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. Journal of the American Chemical Society, 2013, 135, 3286-3299.	6.6	105
85	Mechanisms of catalytic reduction of CO₂ with heme and nonheme metal complexes. Chemical Science, 2018, 9, 6017-6034.	3.7	105
86	Participation of Two Distinct Hydroxylating Intermediates in Iron(III) Porphyrin Complex-Catalyzed Hydroxylation of Alkanes. Journal of the American Chemical Society, 2000, 122, 10805-10809.	6.6	104
87	Formation, stability, and reactivity of a mononuclear nonheme oxoiron(iv) complex in aqueous solution. Chemical Communications, 2005, , 1405.	2.2	102
88	Remarkable Anionic Axial Ligand Effects of Iron(III) Porphyrin Complexes on the Catalytic Oxygenations of Hydrocarbons by H2O2 and the Formation of Oxoiron(IV) Porphyrin Intermediates bym-Chloroperoxybenzoic Acid. Angewandte Chemie - International Edition, 2000, 39, 3646-3649.	7.2	101
89	Nonheme Oxoiron(IV) Complexes of Tris(2-pyridylmethyl)amine withcis-Monoanionic Ligands. Inorganic Chemistry, 2006, 45, 6435-6445.	1.9	101
90	Oxidative N-Dealkylation Reactions by Oxoiron(IV) Complexes of Nonheme and Heme Ligands. Inorganic Chemistry, 2007, 46, 293-298.	1.9	101

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91	Hydrogenâ€Atom Abstraction Reactions by Manganese(V)â€“ and Manganese(IV)â€“Oxo Porphyrin Complexes in Aqueous Solution. Chemistry - A European Journal, 2009, 15, 11482-11489.	1.7	100
92	Water as an Oxygen Source in the Generation of Mononuclear Nonheme Iron(IV) Oxo Complexes. Angewandte Chemie - International Edition, 2009, 48, 1803-1806.	7.2	98
93	A highly efficient non-heme manganese complex in oxygenation reactions. Chemical Communications, 2007, , 4623.	2.2	97
94	First success of catalytic epoxidation of olefins by an electron-rich iron(III) porphyrin complex and H2O2: imidazole effect on the activation of H2O2 by iron porphyrin complexes in aprotic solvent. Journal of Inorganic Biochemistry, 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. Journal of the American Chemical Society, 2011, 133, 11876-11879.	6.6	94
96	BrÃ¸nsted Acid-Promoted Câ€“H Bond Cleavage via Electron Transfer from Toluene Derivatives to a Protonated Nonheme Iron(IV)-Oxo Complex with No Kinetic Isotope Effect. Journal of the American Chemical Society, 2013, 135, 5052-5061.	6.6	94
97	Hydrogen Atom Transfer Reactions of Mononuclear Nonheme Metalâ€“Oxygen Intermediates. Accounts of Chemical Research, 2018, 51, 2014-2022.	7.6	94
98	Mononuclear nickel(ii)-superoxo and nickel(iii)-peroxo complexes bearing a common macrocyclic TMC ligand. Chemical Science, 2013, 4, 1502.	3.7	93
99	Fuel Production from Seawater and Fuel Cells Using Seawater. ChemSusChem, 2017, 10, 4264-4276.	3.6	93
100	Reversible Formation of Iodosylbenzeneâ€“Iron Porphyrin Intermediates in the Reaction of Oxoiron(IV) PorphyrinÏ€-Cation Radicals and Iodobenzene. Angewandte Chemie - International Edition, 2003, 42, 109-111.	7.2	91
101	Zinc(II) complexes and aluminum(III) porphyrin complexes catalyze the epoxidation of olefins by iodosylbenzene. Journal of the American Chemical Society, 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. Angewandte Chemie - International Edition, 2010, 49, 8190-8194.	7.2	90
103	Tuning the reactivity of mononuclear nonheme manganese(<scp>iv</scp>)-oxo complexes by triflic acid. Chemical Science, 2015, 6, 3624-3632.	3.7	87
104	Bioinspired Chemical Inversion ofl-Amino Acids tod-Amino Acids. Journal of the American Chemical Society, 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. Journal of the American Chemical Society, 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. Journal of the American Chemical Society, 2015, 137, 8623-8632.	6.6	85
107	Amphoteric reactivity of metalâ€“oxygen complexes in oxidation reactions. Coordination Chemistry Reviews, 2018, 365, 41-59.	9.5	85
108	Sequential Electron-Transfer and Proton-Transfer Pathways in Hydride-Transfer Reactions from Dihydronicotinamide 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. Journal of the American Chemical Society, 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. Journal of the American Chemical Society, 2012, 134, 7025-7035.	6.6	84
110	Mononuclear nonheme ferric-peroxo complex in aldehyde deformylation. Chemical Communications, 2005, , 4529.	2.2	82
111	How Does the Axial Ligand of Cytochrome P450 Biomimetics Influence the Regioselectivity of Aliphatic versus Aromatic Hydroxylation?. Chemistry - A European Journal, 2009, 15, 5577-5587.	1.7	82
112	Protonation Equilibrium and Hydrogen Production by a Dinuclear Cobaltâ€“Hydride Complex Reduced by Cobaltocene with Trifluoroacetic Acid. Journal of the American Chemical Society, 2013, 135, 15294-15297.	6.6	82
113	Mechanisms of Twoâ€Electron versus Fourâ€Electron Reduction of Dioxygen Catalyzed by Earthâ€Abundant Metal Complexes. ChemCatChem, 2018, 10, 9-28.	1.8	82
114	Artificial nonheme iron and manganese oxygenases for enantioselective olefin epoxidation and alkane hydroxylation reactions. Coordination Chemistry Reviews, 2020, 421, 213443.	9.5	82
115	Reversible Oâˆ’O Bond Cleavage and Formation between Mn(IV)-Peroxo and Mn(V)-Oxo Corroles. Journal of the American Chemical Society, 2010, 132, 14030-14032.	6.6	81
116	Water-Soluble Iron Porphyrin Complex-Catalyzed Epoxidation of Olefins with Hydrogen Peroxide andtert-Butyl Hydroperoxide in Aqueous Solution. Inorganic Chemistry, 1998, 37, 606-607.	1.9	80
117	Effect of Anionic Axial Ligands on the Formation of Oxoiron(IV) Porphyrin Intermediates. Inorganic Chemistry, 2000, 39, 5572-5575.	1.9	79
118	Crystal structure of the two-dimensional framework [Mn(salen)]4n[Re6Te8(CN)6]n [salen = N,Nâ€²-ethylenebis(salicylideneaminato)]. Chemical Communications, 2001, , 1470-1471.	2.2	79
119	High conversion of olefins to cis-diols by non-heme iron catalysts and H2O2. Chemical Communications, 2002, , 1288-1289.	2.2	79
120	Factors Affecting the Catalytic Epoxidation of Olefins by Iron Porphyrin Complexes and H2O2in Protic Solvents. Journal of Organic Chemistry, 2003, 68, 7903-7906.	1.7	79
121	A mononuclear nonheme iron(iii)â€“peroxo complex binding redox-inactive metal ions. Chemical Science, 2013, 4, 3917.	3.7	79
122	High-valent metal-oxo intermediates in energy demanding processes: from dioxygen reduction to water splitting. Current Opinion in Chemical Biology, 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. Journal of Physical Chemistry A, 2009, 113, 11713-11722.	1.1	78
124	Electronâ€Transfer Reduction of Dinuclear Copper Peroxo and Bisâ€Î¼â€oxo Complexes Leading to the Catalytic Fourâ€Electron Reduction of Dioxygen to Water. Chemistry - A European Journal, 2012, 18, 1084-1093.	1.7	78
125	Theoretical Investigations into Câ€“H Bond Activation Reaction by Nonheme Mn^{IV}O Complexes: Multistate Reactivity with No Oxygen Rebound. Journal of Physical Chemistry Letters, 2012, 3, 2851-2856.	2.1	77
126	Identifying Intermediates in Electrocatalytic Water Oxidation with a Manganese Corrole Complex. Journal of the American Chemical Society, 2021, 143, 14613-14621.	6.6	77

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127	Biomimetic Alkane Hydroxylations by an Iron(III) Porphyrin Complex with H2O2and by a High-Valent Iron(IV) Oxo Porphyrin Cation Radical Complex. Inorganic Chemistry, 1999, 38, 3238-3240.	1.9	76
128	Scandium Ion-Enhanced Oxidative Dimerization and<i>N</i>-Demethylation of<i>N</i>,<i>N</i>-Dimethylanilines by a Non-Heme Iron(IV)-Oxo Complex. Inorganic Chemistry, 2011, 50, 11612-11622.	1.9	76
129	Mechanistic Borderline of One-Step Hydrogen Atom Transfer versus Stepwise Sc³⁺-Coupled Electron Transfer from Benzyl Alcohol Derivatives to a Non-Heme Iron(IV)-Oxo Complex. Inorganic Chemistry, 2012, 51, 10025-10036.	1.9	76
130	Highly Enantioselective Oxidation of Spirocyclic Hydrocarbons by Bioinspired Manganese Catalysts and Hydrogen Peroxide. ACS Catalysis, 2018, 8, 2479-2487.	5.5	75
131	Experiment and Theory Reveal the Fundamental Difference between Twoâ€State and Singleâ€State Reactivity Patterns in Nonheme Fe^{IV}ï£¾O versus Ru^{IV}ï£¾O Oxidants. Angewandte Chemie - International Edition, 2008, 47, 3356-3359.	7.2	74
132	Photocatalytic Generation of a Non-Heme Oxoiron(IV) Complex with Water as an Oxygen Source. Journal of the American Chemical Society, 2011, 133, 3249-3251.	6.6	74
133	Manganese displacement from Zinpyr-1 allows zinc detection by fluorescence microscopy and magnetic resonance imaging. Chemical Communications, 2010, 46, 4139.	2.2	72
134	Mechanistic Insights into the Enantioselective Epoxidation of Olefins by Bioinspired Manganese Complexes: Role of Carboxylic Acid and Nature of Active Oxidant. ACS Catalysis, 2018, 8, 4528-4538.	5.5	72
135	[Fe^{IV}â•O(TBC)(CH₃CN)]²⁺: Comparative Reactivity of Iron(IV)-Oxo Species with Constrained Equatorial Cyclam Ligation. Journal of the American Chemical Society, 2012, 134, 11791-11806.	6.6	71
136	Chromium(IV)â€“Peroxo Complex Formation and Its Nitric Oxide Dioxygenase Reactivity. Journal of the American Chemical Society, 2012, 134, 15269-15272.	6.6	71
137	A fluorescence turn-on H2O2 probe exhibits lysosome-localized fluorescence signals. Chemical Communications, 2012, 48, 5449.	2.2	71
138	A Mononuclear Non-Heme High-Spin Iron(III)â€“Hydroperoxo Complex as an Active Oxidant in Sulfoxidation Reactions. Journal of the American Chemical Society, 2013, 135, 8838-8841.	6.6	71
139	Reactivity Patterns of (Protonated) Compoundâ€…II and Compoundâ€…I of Cytochrome P450: Which is the Better Oxidant?. Chemistry - A European Journal, 2017, 23, 6406-6418.	1.7	71
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