Yong-Min Lee

List of Publications by Year
in descending order

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222 papers	11,986 citations	16451 64 h-index	36028 97 g-index
233 all docs	233 docs citations	233 times ranked	7540 citing authors

#	Article	IF	Citations
1	Tuning Reactivity and Mechanism in Oxidation Reactions by Mononuclear Nonheme Iron(IV)-Oxo Complexes. Accounts of Chemical Research, 2014, 47, 1146-1154.	15.6	434
2	Phosphorescent Sensor for Robust Quantification of Copper(II) Ion. Journal of the American Chemical Society, 2011, 133, 11488-11491.	13.7	238
3	Crystal structure of a metal ion-bound oxoiron(IV) complex and implications for biological electron transfer. Nature Chemistry, 2010, 2, 756-759.	13.6	227
4	Lanthanide-Induced Pseudocontact Shifts for Solution Structure Refinements of Macromolecules in Shells up to 40 Ã… from the Metal Ion. Journal of the American Chemical Society, 2000, 122, 4154-4161.	13.7	212
5	Water-soluble mononuclear cobalt complexes with organic ligands acting as precatalysts for efficient photocatalytic water oxidation. Energy and Environmental Science, 2012, 5, 7606.	30.8	208
6	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.	13.7	198
7	Magnetic Susceptibility Tensor Anisotropies for a Lanthanide Ion Series in a Fixed Protein Matrix. Journal of the American Chemical Society, 2001, 123, 4181-4188.	13.7	183
8	A Mononuclear Non-Heme Manganese(IV)â€“Oxo Complex Binding Redox-Inactive Metal Ions. Journal of the American Chemical Society, 2013, 135, 6388-6391.	13.7	182
9	Protonless NMR Experiments for Sequence-Specific Assignment of Backbone Nuclei in Unfolded Proteins. Journal of the American Chemical Society, 2006, 128, 3918-3919.	13.7	176
10	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.	13.7	172
11	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)âˆ'Oxo Complex. Journal of the American Chemical Society, 2011, 133, 5236-5239.	13.7	169
12	Water Oxidation Catalysis with Nonheme Iron Complexes under Acidic and Basic Conditions: Homogeneous or Heterogeneous?. Inorganic Chemistry, 2013, 52, 9522-9531.	4.0	164
13	Dioxygen Activation by a Non-Heme Iron(II) Complex: Formation of an Iron(IV)âˆ'Oxo Complex via Câˆ'H Activation by a Putative Iron(III)âˆ'Superoxo Species. Journal of the American Chemical Society, 2010, 132, 10668-10670.	13.7	157
14	Intrinsic properties and reactivities of mononuclear nonheme ironâ€“oxygen complexes bearing the tetramethylcyclam ligand. Coordination Chemistry Reviews, 2013, 257, 381-393.	18.8	157
15	Fundamental Electron-Transfer Properties of Non-heme Oxoiron(IV) Complexes. Journal of the American Chemical Society, 2008, 130, 434-435.	13.7	144
16	Conformational variability of matrix metalloproteinases: Beyond a single 3D structure. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5334-5339.	7.1	143
17	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.	13.7	137
18	Dioxygen activation chemistry by synthetic mononuclear nonheme iron, copper and chromium complexes. Coordination Chemistry Reviews, 2017, 334, 25-42.	18.8	136

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19	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.	13.6	135
20	Lewis Acid Coupled Electron Transfer of Metalâ€“Oxygen Intermediates. Chemistry - A European Journal, 2015, 21, 17548-17559.	3.3	132
21	Synthesis and reactivity of a mononuclear non-haem cobalt(IV)-oxo complex. Nature Communications, 2017, 8, 14839.	12.8	132
22	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.	13.7	131
23	[Mn(tmc)(O2)]+: A Side-On Peroxido Manganese(III) Complex Bearing a Non-Heme Ligand. Angewandte Chemie - International Edition, 2007, 46, 377-380.	13.8	127
24	Highly efficient photocatalytic oxygenation reactions using water as an oxygen source. Nature Chemistry, 2011, 3, 38-41.	13.6	126
25	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.	13.7	118
26	Thermal and photocatalytic production of hydrogen with earth-abundant metal complexes. Coordination Chemistry Reviews, 2018, 355, 54-73.	18.8	116
27	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.	13.8	115
28	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.	13.7	114
29	Hydrogen Atom Abstraction and Hydride Transfer Reactions by Iron(IV)â€“Oxo Porphyrins. Angewandte Chemie - International Edition, 2008, 47, 7321-7324.	13.8	113
30	Transition metal-mediated Oâ€“O bond formation and activation in chemistry and biology. Chemical Society Reviews, 2021, 50, 4804-4811.	38.1	113
31	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.	4.0	111
32	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.	13.7	107
33	Solarâ€Driven Production of Hydrogen Peroxide from Water and Dioxygen. Chemistry - A European Journal, 2018, 24, 5016-5031.	3.3	106
34	Mechanisms of catalytic reduction of CO₂ with heme and nonheme metal complexes. Chemical Science, 2018, 9, 6017-6034.	7.4	105
35	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.	3.3	100
36	Water as an Oxygen Source in the Generation of Mononuclear Nonheme Iron(IV) Oxo Complexes. Angewandte Chemie - International Edition, 2009, 48, 1803-1806.	13.8	98

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37	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.	13.7	94
38	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.	13.7	94
39	Hydrogen Atom Transfer Reactions of Mononuclear Nonheme Metalâ€“Oxygen Intermediates. Accounts of Chemical Research, 2018, 51, 2014-2022.	15.6	94
40	Fuel Production from Seawater and Fuel Cells Using Seawater. ChemSusChem, 2017, 10, 4264-4276.	6.8	93
41	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.	13.8	90
42	Tuning the reactivity of mononuclear nonheme manganese(<scp>iv</scp>)-oxo complexes by triflic acid. Chemical Science, 2015, 6, 3624-3632.	7.4	87
43	Paramagnetically Induced Residual Dipolar Couplings for Solution Structure Determination of Lanthanide Binding Proteins. Journal of the American Chemical Society, 2002, 124, 5581-5587.	13.7	86
44	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.	13.7	86
45	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.	13.7	85
46	Amphoteric reactivity of metalâ€“oxygen complexes in oxidation reactions. Coordination Chemistry Reviews, 2018, 365, 41-59.	18.8	85
47	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.	13.7	84
48	Factors That Control Catalytic Two- versus Four-Electron Reduction of Dioxygen by Copper Complexes. Journal of the American Chemical Society, 2012, 134, 7025-7035.	13.7	84
49	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.	13.7	82
50	Mechanisms of Twoâ€•Electron versus Fourâ€•Electron Reduction of Dioxygen Catalyzed by Earthâ€•Abundant Metal Complexes. ChemCatChem, 2018, 10, 9-28.	3.7	82
51	A mononuclear nonheme iron(iii)â€“peroxo complex binding redox-inactive metal ions. Chemical Science, 2013, 4, 3917.	7.4	79
52	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.	3.3	78
53	Identifying Intermediates in Electrocatalytic Water Oxidation with a Manganese Corrole Complex. Journal of the American Chemical Society, 2021, 143, 14613-14621.	13.7	77
54	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.	4.0	76

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55	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.	4.0	76
56	Highly Enantioselective Oxidation of Spirocyclic Hydrocarbons by Bioinspired Manganese Catalysts and Hydrogen Peroxide. ACS Catalysis, 2018, 8, 2479-2487.	11.2	75
57	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.	13.8	74
58	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.	13.7	74
59	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.	11.2	72
60	[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.	13.7	71
61	Redox Reactivity of a Mononuclear Manganese-Oxo Complex Binding Calcium Ion and Other Redox-Inactive Metal Ions. Journal of the American Chemical Society, 2019, 141, 1324-1336.	13.7	70
62	Temperature-Independent Catalytic Two-Electron Reduction of Dioxygen by Ferrocenes with a Copper(II) Tris[2-(2-pyridyl)ethyl]amine Catalyst in the Presence of Perchloric Acid. Journal of the American Chemical Society, 2013, 135, 2825-2834.	13.7	68
63	Mechanistic Insights into Hydride-Transfer and Electron-Transfer Reactions by a Manganese(IV)â^'Oxo Porphyrin Complex. Journal of the American Chemical Society, 2009, 131, 17127-17134.	13.7	67
64	Mononuclear Nonheme High-Spin Iron(III)-Acylperoxo Complexes in Olefin Epoxidation and Alkane Hydroxylation Reactions. Journal of the American Chemical Society, 2016, 138, 2426-2436.	13.7	67
65	Locating the Metal Ion in Calcium-Binding Proteins by Using Cerium(III) as a Probe. ChemBioChem, 2001, 2, 550-558.	2.6	66
66	Photocatalytic oxidation of benzene to phenol using dioxygen as an oxygen source and water as an electron source in the presence of a cobalt catalyst. Chemical Science, 2017, 8, 7119-7125.	7.4	65
67	Determination of Spin Inversion Probability, H-Tunneling Correction, and Regioselectivity in the Two-State Reactivity of Nonheme Iron(IV)-Oxo Complexes. Journal of Physical Chemistry Letters, 2015, 6, 1472-1476.	4.6	64
68	High-valent metal-oxo complexes generated in catalytic oxidation reactions using water as an oxygen source. Coordination Chemistry Reviews, 2017, 333, 44-56.	18.8	62
69	Reactivity comparison of high-valent iron(iv)-oxo complexes bearing N-tetramethylated cyclam ligands with different ring size. Dalton Transactions, 2013, 42, 7842.	3.3	61
70	Photocatalytic Asymmetric Epoxidation of Terminal Olefins Using Water as an Oxygen Source in the Presence of a Mononuclear Non-Heme Chiral Manganese Complex. Journal of the American Chemical Society, 2016, 138, 15857-15860.	13.7	61
71	Mechanistic dichotomies in redox reactions of mononuclear metalâ€“oxygen intermediates. Chemical Society Reviews, 2020, 49, 8988-9027.	38.1	61
72	A Mononuclear Nonheme Iron(V)-Imido Complex. Journal of the American Chemical Society, 2017, 139, 8800-8803.	13.7	60

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73	Dioxygen Activation and Oâ€“O Bond Formation Reactions by Manganese Corroles. Journal of the American Chemical Society, 2017, 139, 15858-15867.	13.7	60
74	Highly Reactive Nonheme Iron(III) Iodosylarene Complexes in Alkane Hydroxylation and Sulfoxidation Reactions. Angewandte Chemie - International Edition, 2014, 53, 6388-6392.	13.8	59
75	Reactivity of a cobalt(III)-peroxo complex in oxidative nucleophilic reactions. Journal of Inorganic Biochemistry, 2008, 102, 2155-2159.	3.5	56
76	Acid-Induced Mechanism Change and Overpotential Decrease in Dioxygen Reduction Catalysis with a Dinuclear Copper Complex. Journal of the American Chemical Society, 2013, 135, 4018-4026.	13.7	56
77	Paramagnetic Metal Ions in Ligand Screening: The CoII Matrix Metalloproteinase 12. Angewandte Chemie - International Edition, 2004, 43, 2254-2256.	13.8	54
78	Double Action: Toward Phosphorescence Ratiometric Sensing of Chromium Ion. Advanced Materials, 2012, 24, 2748-2754.	21.0	53
79	Highly Reactive Manganese(IV)-Oxo Porphyrins Showing Temperature-Dependent Reversed Electronic Effect in Câ€“H Bond Activation Reactions. Journal of the American Chemical Society, 2019, 141, 12187-12191.	13.7	53
80	Catalytic oxidation of alkanes by iron bispidine complexes and dioxygen: oxygen activation versus autoxidation. Chemical Communications, 2014, 50, 412-414.	4.1	52
81	Factors Controlling the Chemoselectivity in the Oxidation of Olefins by Nonheme Manganese(IV)-Oxo Complexes. Journal of the American Chemical Society, 2016, 138, 10654-10663.	13.7	52
82	Efficient Epoxidation of Styrene Derivatives by a Nonheme Iron(IV)-Oxo Complex via Proton-Coupled Electron Transfer with Triflic Acid. Inorganic Chemistry, 2015, 54, 5806-5812.	4.0	51
83	Recent progress in production and usage of hydrogen peroxide. Chinese Journal of Catalysis, 2021, 42, 1241-1252.	14.0	51
84	Demonstration of the Heterolytic Oï£¿O Bond Cleavage of Putative Nonheme Iron(II)ï£¿OOH(R) Complexes for Fenton and Enzymatic Reactions. Angewandte Chemie - International Edition, 2014, 53, 7843-7847.	13.8	50
85	Structure and reactivity of the first-row d-block metal-superoxo complexes. Dalton Transactions, 2019, 48, 9469-9489.	3.3	50
86	Spectroscopic Characterization and Reactivity Studies of a Mononuclear Nonheme Mn(III)â€“Hydroperoxo Complex. Journal of the American Chemical Society, 2014, 136, 12229-12232.	13.7	49
87	Mononuclear Nonheme Iron(III)â€Iodosylarene and Highâ€Valent Ironâ€Oxo Complexes in Olefin Epoxidation Reactions. Angewandte Chemie - International Edition, 2015, 54, 11740-11744.	13.8	49
88	A Highly Reactive Oxoiron(IV) Complex Supported by a Bioinspired N₃O Macrocyclic Ligand. Angewandte Chemie - International Edition, 2017, 56, 14384-14388.	13.8	49
89	Manganese complex-catalyzed oxidation and oxidative kinetic resolution of secondary alcohols by hydrogen peroxide. Chemical Science, 2017, 8, 7476-7482.	7.4	49
90	Metal ion-coupled electron-transfer reactions of metal-oxygen complexes. Coordination Chemistry Reviews, 2020, 410, 213219.	18.8	47

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91	Conversion of high-spin iron(<scp>iii</scp>)â€“alkylperoxo to iron(<scp>iv</scp>)â€“oxo species via Oâ€“O bond homolysis in nonheme iron models. Chemical Science, 2014, 5, 156-162.	7.4	46
92	Mononuclear Nonheme Highâ€Spin (<i>S</i>=2) versus Intermediateâ€Spin (<i>S</i>=1) Iron(IV)â€“Oxo Complexes in Oxidation Reactions. Angewandte Chemie - International Edition, 2016, 55, 8027-8031.	13.8	46
93	Selective Oxygenation of Cyclohexene by Dioxygen via an Iron(V)-Oxo Complex-Autocatalyzed Reaction. Inorganic Chemistry, 2017, 56, 5096-5104.	4.0	46
94	Fine Control of the Redox Reactivity of a Nonheme Iron(III)â€“Peroxo Complex by Binding Redoxâ€Inactive Metal Ions. Angewandte Chemie - International Edition, 2017, 56, 801-805.	13.8	46
95	Achieving One-Electron Oxidation of a Mononuclear Nonheme Iron(V)-Imido Complex. Journal of the American Chemical Society, 2017, 139, 14372-14375.	13.7	45
96	Switchover of the Mechanism between Electron Transfer and Hydrogenâ€Atom Transfer for a Protonated Manganese(IV)â€“Oxo Complex by Changing Only the Reaction Temperature. Angewandte Chemie - International Edition, 2016, 55, 7450-7454.	13.8	44
97	High-valent manganese(v)â€“oxo porphyrin complexes in hydride transfer reactions. Chemical Communications, 2009, , 704-706.	4.1	43
98	A mononuclear manganese(<scp>iii</scp>)â€“hydroperoxo complex: synthesis by activating dioxygen and reactivity in electrophilic and nucleophilic reactions. Chemical Communications, 2018, 54, 1209-1212.	4.1	43
99	Electron-Transfer and Redox Reactivity of High-Valent Iron Imido and Oxo Complexes with the Formal Oxidation States of Five and Six. Journal of the American Chemical Society, 2020, 142, 3891-3904.	13.7	43
100	Contrasting Effects of Axial Ligands on Electronâ€Transfer Versus Protonâ€Coupled Electronâ€Transfer Reactions of Nonheme Oxoiron(IV) Complexes. Chemistry - A European Journal, 2010, 16, 354-361.	3.3	42
101	Mononuclear nonheme iron(<scp>iv</scp>)â€“oxo and manganese(<scp>iv</scp>)â€“oxo complexes in oxidation reactions: experimental results prove theoretical prediction. Chemical Communications, 2015, 51, 13094-13097.	4.1	42
102	Kinetics and mechanisms of catalytic water oxidation. Dalton Transactions, 2019, 48, 779-798.	3.3	42
103	Highly Efficient Catalytic Two-Electron Two-Proton Reduction of Dioxygen to Hydrogen Peroxide with a Cobalt Corrole Complex. ACS Catalysis, 2021, 11, 3073-3083.	11.2	41
104	Long-Lived Photoexcited State of a Mn(IV)-Oxo Complex Binding Scandium Ions That is Capable of Hydroxylating Benzene. Journal of the American Chemical Society, 2018, 140, 8405-8409.	13.7	39
105	Reactions of Co(III)â€“Nitrosyl Complexes with Superoxide and Their Mechanistic Insights. Journal of the American Chemical Society, 2015, 137, 4284-4287.	13.7	38
106	Catalytic recycling of NAD(P)H. Journal of Inorganic Biochemistry, 2019, 199, 110777.	3.5	38
107	Unified Mechanism of Oxygen Atom Transfer and Hydrogen Atom Transfer Reactions with a Triflic Acid-Bound Nonheme Manganese(IV)â€“Oxo Complex via Outer-Sphere Electron Transfer. Journal of the American Chemical Society, 2019, 141, 2614-2622.	13.7	38
108	Electron-transfer properties of a nonheme manganese(iv)â€“oxo complex acting as a stronger one-electron oxidant than the iron(iv)â€“oxo analogue. Chemical Communications, 2012, 48, 11187.	4.1	36

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109	Factors That Control the Reactivity of Cobalt(III)â€“Nitrosyl Complexes in Nitric Oxide Transfer and Dioxygenation Reactions: A Combined Experimental and Theoretical Investigation. Journal of the American Chemical Society, 2016, 138, 7753-7762.	13.7	36
110	Immobilization of Molecular Catalysts for Enhanced Redox Catalysis. ChemCatChem, 2018, 10, 1686-1702.	3.7	35
111	Biomimetic metal-oxidant adducts as active oxidants in oxidation reactions. Coordination Chemistry Reviews, 2021, 435, 213807.	18.8	35
112	Autocatalytic Formation of an Iron(IV)â€“Oxo Complex via Scandium Ion-Promoted Radical Chain Autoxidation of an Iron(II) Complex with Dioxygen and Tetraphenylborate. Journal of the American Chemical Society, 2014, 136, 8042-8049.	13.7	34
113	A Mononuclear Non-heme Manganese(III)â€“Aqua Complex as a New Active Oxidant in Hydrogen Atom Transfer Reactions. Journal of the American Chemical Society, 2018, 140, 12695-12699.	13.7	34
114	A Highâ€Valent Manganese(IV)â€“Oxoâ€“Cerium(IV) Complex and Its Enhanced Oxidizing Reactivity. Angewandte Chemie - International Edition, 2019, 58, 16124-16129.	13.8	34
115	Photocatalytic Oxygenation Reactions with a Cobalt Porphyrin Complex Using Water as an Oxygen Source and Dioxygen as an Oxidant. Journal of the American Chemical Society, 2019, 141, 9155-9159.	13.7	34
116	Relationships among structure and spectroscopic properties in tetrahedrally distorted copper(II) (âˆ’)-sparteine dichloride. Inorganic Chemistry Communication, 2003, 6, 197-201.	3.9	33
117	Synthesis, Characterization, and Reactivity of Cobalt(III)â€“Oxygen Complexes Bearing a Macrocyclic Nâ€Tetramethylated Cyclam Ligand. Chemistry - A European Journal, 2013, 19, 14112-14118.	3.3	33
118	Photocatalytic Oxygenation Reactions Using Water and Dioxygen. ChemSusChem, 2019, 12, 3931-3940.	6.8	33
119	Paramagnetism-Based Refinement Strategy for the Solution Structure of Human Î±-Parvalbuminâ€. Biochemistry, 2004, 43, 5562-5573.	2.5	32
120	Molecular Photocatalytic Water Splitting by Mimicking Photosystems I and II. Journal of the American Chemical Society, 2022, 144, 695-700.	13.7	32
121	Tunneling Controls the Reaction Pathway in the Deformylation of Aldehydes by a Nonheme Iron(III)â€“Hydroperoxo Complex: Hydrogen Atom Abstraction versus Nucleophilic Addition. Journal of the American Chemical Society, 2019, 141, 7675-7679.	13.7	31
122	A nonheme manganese(<scp>iv</scp>)â€“oxo species generated in photocatalytic reaction using water as an oxygen source. Chemical Communications, 2015, 51, 4013-4016.	4.1	30
123	Mn(III)-Iodosylarene Porphyrins as an Active Oxidant in Oxidation Reactions: Synthesis, Characterization, and Reactivity Studies. Inorganic Chemistry, 2018, 57, 10232-10240.	4.0	30
124	Artificial Photosynthesis for Production of ATP, NAD(P)H, and Hydrogen Peroxide. ChemPhotoChem, 2018, 2, 121-135.	3.0	29
125	Structural and magnetic characterization of copper(II) halide complexes with 2-(dimethylaminomethyl)-3-hydroxypyridine. Polyhedron, 2005, 24, 377-382.	2.2	28
126	Acid Catalysis via Acidâ€Promoted Electron Transfer. Bulletin of the Korean Chemical Society, 2020, 41, 1217-1232.	1.9	28

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127	An iron(II) complex with a N3S2 thioether ligand in the generation of an iron(IV)-oxo complex and its reactivity in olefin epoxidation. Inorganica Chimica Acta, 2009, 362, 1031-1034.	2.4	27
128	Manganese(v)â€“oxo corroles in hydride-transfer reactions. Chemical Communications, 2010, 46, 8160.	4.1	27
129	Enhanced Electron Transfer Reactivity of a Nonheme Iron(IV)â€“Imido Complex as Compared to the Iron(IV)â€Oxo Analogue. Angewandte Chemie - International Edition, 2016, 55, 3709-3713.	13.8	27
130	Remarkable Acid Catalysis in Proton-Coupled Electron-Transfer Reactions of a Chromium(III)-Superoxo Complex. Journal of the American Chemical Society, 2018, 140, 8372-8375.	13.7	27
131	A mononuclear nonheme cobalt(<scp>iii</scp>)â€“hydroperoxide complex with an amphoteric reactivity in electrophilic and nucleophilic oxidative reactions. Dalton Transactions, 2016, 45, 14511-14515.	3.3	26
132	Effects of Lewis Acids on Photoredox Catalysis. Asian Journal of Organic Chemistry, 2017, 6, 397-409.	2.7	26
133	Mimicry and functions of photosynthetic reaction centers. Biochemical Society Transactions, 2018, 46, 1279-1288.	3.4	26
134	Combined Experimental and Theoretical Approach To Understand the Reactivity of a Mononuclear Cu(II)â^'Hydroperoxo Complex in Oxygenation Reactions. Journal of Physical Chemistry A, 2008, 112, 13102-13108.	2.5	25
135	Structure and spin state of nonheme Fe^{IV}O complexes depending on temperature: predictive insights from DFT calculations and experiments. Chemical Science, 2017, 8, 5460-5467.	7.4	25
136	Photodriven Oxidation of Water by Plastoquinone Analogs with a Nonheme Iron Catalyst. Journal of the American Chemical Society, 2019, 141, 6748-6754.	13.7	25
137	A paramagnetic probe to localize residues next to carboxylates on protein surfaces. Journal of Biological Inorganic Chemistry, 2002, 7, 617-622.	2.6	24
138	Effects of Proton Acceptors on Formation of a Non-Heme Iron(IV)â€“Oxo Complex via Proton-Coupled Electron Transfer. Inorganic Chemistry, 2013, 52, 3094-3101.	4.0	24
139	An amphoteric reactivity of a mixed-valent bis(Î¼-oxo)dimanganese(<scp>iii</scp>,<scp>iv</scp>) complex acting as an electrophile and a nucleophile. Dalton Transactions, 2016, 45, 376-383.	3.3	24
140	Deuterium kinetic isotope effects as redox mechanistic criterions. Bulletin of the Korean Chemical Society, 2021, 42, 1558-1568.	1.9	24
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