Yong-Min Lee

List of Publications by Citations

224 papers	9,673 citations	57 h-index	87 g-index
233 ext. papers	10,824 ext. citations	10.7 avg, IF	6.52 L-index

#	Paper	IF	Citations
224	Tuning reactivity and mechanism in oxidation reactions by mononuclear nonheme iron(IV)-oxo complexes. *Accounts of Chemical Research*, **2014**, 47, 1146-54	24.3	374
223	Phosphorescent sensor for robust quantification of copper(II) ion. *Journal of the American Chemical Society*, **2011**, 133, 11488-91	16.4	213
222	Crystal structure of a metal ion-bound oxoiron(IV) complex and implications for biological electron transfer. *Nature Chemistry*, **2010**, 2, 756-9	17.6	199
221	Lanthanide-Induced Pseudocontact Shifts for Solution Structure Refinements of Macromolecules in Shells up to 40 Å from the Metal Ion. *Journal of the American Chemical Society*, **2000**, 122, 4154-4161	16.4	198
220	Water-soluble mononuclear cobalt complexes with organic ligands acting as precatalysts for efficient photocatalytic water oxidation. *Energy and Environmental Science*, **2012**, 5, 7606	35.4	196
219	A highly reactive mononuclear non-heme manganese(IV)-oxo complex that can activate the strong C-H bonds of alkanes. *Journal of the American Chemical Society*, **2011**, 133, 20088-91	16.4	177
218	Magnetic susceptibility tensor anisotropies for a lanthanide ion series in a fixed protein matrix. *Journal of the American Chemical Society*, **2001**, 123, 4181-8	16.4	170
217	A mononuclear non-heme manganese(IV)-oxo complex binding redox-inactive metal ions. *Journal of the American Chemical Society*, **2013**, 135, 6388-91	16.4	156
216	Protonless NMR experiments for sequence-specific assignment of backbone nuclei in unfolded proteins. *Journal of the American Chemical Society*, **2006**, 128, 3918-9	16.4	155
215	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. *Journal of the American Chemical Society*, **2011**, 133, 5236-9	16.4	153
214	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, 403-5	16.4	151
213	Dioxygen activation by a non-heme iron(II) complex: formation of an iron(IV)-oxo complex via C-H activation by a putative iron(III)-superoxo species. *Journal of the American Chemical Society*, **2010**, 132, 10668-70	16.4	148
212	Water oxidation catalysis with nonheme iron complexes under acidic and basic conditions: homogeneous or heterogeneous?. *Inorganic Chemistry*, **2013**, 52, 9522-31	5.1	144
211	Intrinsic properties and reactivities of mononuclear nonheme iron–oxygen complexes bearing the tetramethylcyclam ligand. *Coordination Chemistry Reviews*, **2013**, 257, 381-393	23.2	140
210	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, 5334-9	11.5	134
209	Evidence for an alternative to the oxygen rebound mechanism in C-H bond activation by non-heme Fe(IV)O complexes. *Journal of the American Chemical Society*, **2012**, 134, 20222-5	16.4	129
208	Fundamental electron-transfer properties of non-heme oxoiron(IV) complexes. *Journal of the American Chemical Society*, **2008**, 130, 434-5	16.4	128

207	[Mn(tmc)(O2)]+: a side-on peroxido manganese(III) complex bearing a non-heme ligand. *Angewandte Chemie - International Edition*, **2007**, 46, 377-80	16.4	118
206	Highly efficient photocatalytic oxygenation reactions using water as an oxygen source. *Nature Chemistry*, **2011**, 3, 38-41	17.6	114
205	Dioxygen activation chemistry by synthetic mononuclear nonheme iron, copper and chromium complexes. *Coordination Chemistry Reviews*, **2017**, 334, 25-42	23.2	112
204	Redox-inactive metal ions modulate the reactivity and oxygen release of mononuclear non-haem iron(III)-peroxo complexes. *Nature Chemistry*, **2014**, 6, 934-40	17.6	111
203	Enhanced electron-transfer reactivity of nonheme manganese(IV)-oxo complexes by binding scandium ions. *Journal of the American Chemical Society*, **2013**, 135, 9186-94	16.4	111
202	Hydrogen atom abstraction and hydride transfer reactions by iron(IV)-oxo porphyrins. *Angewandte Chemie - International Edition*, **2008**, 47, 7321-4	16.4	103
201	Dioxygen activation by mononuclear nonheme iron(II) complexes generates iron-oxygen intermediates in the presence of an NADH analogue and proton. *Journal of the American Chemical Society*, **2009**, 131, 13910-1	16.4	102
200	A Manganese(V)-Oxo Complex: Synthesis by Dioxygen Activation and Enhancement of Its Oxidizing Power by Binding Scandium Ion. *Journal of the American Chemical Society*, **2016**, 138, 8523-32	16.4	101
199	Structural characterization and remarkable axial ligand effect on the nucleophilic reactivity of a nonheme manganese(III)-peroxo complex. *Angewandte Chemie - International Edition*, **2009**, 48, 4150-3	16.4	101
198	Lewis Acid Coupled Electron Transfer of Metal-Oxygen Intermediates. *Chemistry - A European Journal*, **2015**, 21, 17548-59	4.8	98
197	Unified view of oxidative C-H bond cleavage and sulfoxidation by a nonheme iron(IV)-oxo complex via Lewis acid-promoted electron transfer. *Inorganic Chemistry*, **2014**, 53, 3618-28	5.1	97
196	Synthesis and reactivity of a mononuclear non-haem cobalt(IV)-oxo complex. *Nature Communications*, **2017**, 8, 14839	17.4	94
195	Thermal and photocatalytic production of hydrogen with earth-abundant metal complexes. *Coordination Chemistry Reviews*, **2018**, 355, 54-73	23.2	93
194	Water as an oxygen source in the generation of mononuclear nonheme iron(IV) oxo complexes. *Angewandte Chemie - International Edition*, **2009**, 48, 1803-6	16.4	92
193	Hydrogen-atom abstraction reactions by manganese(V)- and manganese(IV)-oxo porphyrin complexes in aqueous solution. *Chemistry - A European Journal*, **2009**, 15, 11482-9	4.8	89
192	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. *Journal of the American Chemical Society*, **2013**, 135, 5052-61	16.4	86
191	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, 11876-9	16.4	85
190	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, 936-43	16.4	83

189	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, 3903-11	16.4	79
188	Water as an oxygen source: synthesis, characterization, and reactivity studies of a mononuclear nonheme manganese(IV) oxo complex. *Angewandte Chemie - International Edition*, **2010**, 49, 8190-4	16.4	79
187	Sequential electron-transfer and proton-transfer pathways in hydride-transfer reactions from dihydronicotinamide adenine dinucleotide analogues to non-heme oxoiron(IV) complexes and p-chloranil. Detection of radical cations of NADH analogues in acid-promoted hydride-transfer reactions. *Journal of the American Chemical Society*, **2008**, 130, 15134-42	16.4	78
186	Paramagnetically induced residual dipolar couplings for solution structure determination of lanthanide binding proteins. *Journal of the American Chemical Society*, **2002**, 124, 5581-7	16.4	77
185	Factors that control catalytic two- versus four-electron reduction of dioxygen by copper complexes. *Journal of the American Chemical Society*, **2012**, 134, 7025-35	16.4	73
184	Electron-transfer reduction of dinuclear copper peroxo and bis-□xo complexes leading to the catalytic four-electron reduction of dioxygen to water. *Chemistry - A European Journal*, **2012**, 18, 1084-93	4.8	71
183	Scandium ion-enhanced oxidative dimerization and N-demethylation of N,N-dimethylanilines by a non-heme iron(IV)-oxo complex. *Inorganic Chemistry*, **2011**, 50, 11612-22	5.1	71
182	Mechanisms of catalytic reduction of CO with heme and nonheme metal complexes. *Chemical Science*, **2018**, 9, 6017-6034	9.4	71
181	Tuning the Reactivity of Mononuclear Nonheme Manganese(IV)-Oxo Complexes by Triflic Acid. *Chemical Science*, **2015**, 6, 3624-3632	9.4	70
180	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, 8623-32	16.4	69
179	A Mononuclear Nonheme Iron(III)-Peroxo Complex Binding Redox-Inactive Metal Ions. *Chemical Science*, **2013**, 4, 3917-3923	9.4	69
178	Protonation equilibrium and hydrogen production by a dinuclear cobalt-hydride complex reduced by cobaltocene with trifluoroacetic acid. *Journal of the American Chemical Society*, **2013**, 135, 15294-7	16.4	69
177	Photocatalytic generation of a non-heme oxoiron(IV) complex with water as an oxygen source. *Journal of the American Chemical Society*, **2011**, 133, 3249-51	16.4	69
176	Experiment and theory reveal the fundamental difference between two-state and single-state reactivity patterns in nonheme Fe(IV)=O versus Ru(IV)=O oxidants. *Angewandte Chemie - International Edition*, **2008**, 47, 3356-9	16.4	69
175	Hydrogen Atom Transfer Reactions of Mononuclear Nonheme Metal-Oxygen Intermediates. *Accounts of Chemical Research*, **2018**, 51, 2014-2022	24.3	68
174	[Fe(IV)?O(TBC)(CH3CN)]2+: comparative reactivity of iron(IV)-oxo species with constrained equatorial cyclam ligation. *Journal of the American Chemical Society*, **2012**, 134, 11791-806	16.4	65
173	Solar-Driven Production of Hydrogen Peroxide from Water and Dioxygen. *Chemistry - A European Journal*, **2018**, 24, 5016-5031	4.8	64
172	Mechanistic borderline of one-step hydrogen atom transfer versus stepwise Sc(3+)-coupled electron transfer from benzyl alcohol derivatives to a non-heme iron(IV)-oxo complex. *Inorganic Chemistry*, **2012**, 51, 10025-36	5.1	64

171	Mechanisms of Two-Electron versus Four-Electron Reduction of Dioxygen Catalyzed by Earth-Abundant Metal Complexes. *ChemCatChem*, **2018**, 10, 9-28	5.2	63
170	Mechanistic insights into hydride-transfer and electron-transfer reactions by a manganese(IV)-oxo porphyrin complex. *Journal of the American Chemical Society*, **2009**, 131, 17127-34	16.4	61
169	Locating the metal ion in calcium-binding proteins by using cerium(III) as a probe. *ChemBioChem*, **2001**, 2, 550-8	3.8	60
168	Amphoteric reactivity of metal–oxygen complexes in oxidation reactions. *Coordination Chemistry Reviews*, **2018**, 365, 41-59	23.2	58
167	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, 2825-34	16.4	56
166	Fuel Production from Seawater and Fuel Cells Using Seawater. *ChemSusChem*, **2017**, 10, 4264-4276	8.3	55
165	Mononuclear Nonheme High-Spin Iron(III)-Acylperoxo Complexes in Olefin Epoxidation and Alkane Hydroxylation Reactions. *Journal of the American Chemical Society*, **2016**, 138, 2426-36	16.4	54
164	Highly reactive nonheme iron(III) iodosylarene complexes in alkane hydroxylation and sulfoxidation reactions. *Angewandte Chemie - International Edition*, **2014**, 53, 6388-92	16.4	54
163	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, 1472-6	6.4	52
162	Reactivity comparison of high-valent iron(IV)-oxo complexes bearing N-tetramethylated cyclam ligands with different ring size. *Dalton Transactions*, **2013**, 42, 7842-5	4.3	52
161	Dioxygen Activation and O-O Bond Formation Reactions by Manganese Corroles. *Journal of the American Chemical Society*, **2017**, 139, 15858-15867	16.4	50
160	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	13.1	50
159	Double action: toward phosphorescence ratiometric sensing of chromium ion. *Advanced Materials*, **2012**, 24, 2748-54	24	50
158	Paramagnetic metal ions in ligand screening: the Co(II) matrix metalloproteinase 12. *Angewandte Chemie - International Edition*, **2004**, 43, 2254-6	16.4	50
157	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	16.4	50
156	Highly Enantioselective Oxidation of Spirocyclic Hydrocarbons by Bioinspired Manganese Catalysts and Hydrogen Peroxide. *ACS Catalysis*, **2018**, 8, 2479-2487	13.1	49
155	High-valent metal-oxo complexes generated in catalytic oxidation reactions using water as an oxygen source. *Coordination Chemistry Reviews*, **2017**, 333, 44-56	23.2	49
154	Acid-induced mechanism change and overpotential decrease in dioxygen reduction catalysis with a dinuclear copper complex. *Journal of the American Chemical Society*, **2013**, 135, 4018-26	16.4	49

153	A Mononuclear Nonheme Iron(V)-Imido Complex. *Journal of the American Chemical Society*, **2017**, 139, 8800-8803	16.4	47
152	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	16.4	47
151	Catalytic oxidation of alkanes by iron bispidine complexes and dioxygen: oxygen activation versus autoxidation. *Chemical Communications*, **2014**, 50, 412-4	5.8	46
150	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	9.4	46
149	Efficient Epoxidation of Styrene Derivatives by a Nonheme Iron(IV)-Oxo Complex via Proton-Coupled Electron Transfer with Triflic Acid. *Inorganic Chemistry*, **2015**, 54, 5806-12	5.1	46
148	Factors Controlling the Chemoselectivity in the Oxidation of Olefins by Nonheme Manganese(IV)-Oxo Complexes. *Journal of the American Chemical Society*, **2016**, 138, 10654-63	16.4	44
147	Reactivity of a cobalt(III)-peroxo complex in oxidative nucleophilic reactions. *Journal of Inorganic Biochemistry*, **2008**, 102, 2155-9	4.2	44
146	Spectroscopic characterization and reactivity studies of a mononuclear nonheme Mn(III)-hydroperoxo complex. *Journal of the American Chemical Society*, **2014**, 136, 12229-32	16.4	41
145	Highly Reactive Manganese(IV)-Oxo Porphyrins Showing Temperature-Dependent Reversed Electronic Effect in C-H Bond Activation Reactions. *Journal of the American Chemical Society*, **2019**, 141, 12187-12191	16.4	40
144	Demonstration of the heterolytic O-O bond cleavage of putative nonheme iron(II)-OOH(R) complexes for Fenton and enzymatic reactions. *Angewandte Chemie - International Edition*, **2014**, 53, 7843-7	16.4	40
143	High-valent manganese(v)-oxo porphyrin complexes in hydride transfer reactions. *Chemical Communications*, **2009**, 704-6	5.8	40
142	Achieving One-Electron Oxidation of a Mononuclear Nonheme Iron(V)-Imido Complex. *Journal of the American Chemical Society*, **2017**, 139, 14372-14375	16.4	39
141	Conversion of high-spin iron(III)–alkylperoxo to iron(IV)–oxo species via O–O bond homolysis in nonheme iron models. *Chemical Science*, **2014**, 5, 156-162	9.4	39
140	Mononuclear Nonheme Iron(III)-Iodosylarene and High-Valent Iron-Oxo Complexes in Olefin Epoxidation Reactions. *Angewandte Chemie - International Edition*, **2015**, 54, 11740-4	16.4	39
139	Contrasting effects of axial ligands on electron-transfer versus proton-coupled electron-transfer reactions of nonheme oxoiron(IV) complexes. *Chemistry - A European Journal*, **2010**, 16, 354-61	4.8	39
138	Mononuclear Nonheme High-Spin (S=2) versus Intermediate-Spin (S=1) Iron(IV)-Oxo Complexes in Oxidation Reactions. *Angewandte Chemie - International Edition*, **2016**, 55, 8027-31	16.4	38
137	Transition metal-mediated O-O bond formation and activation in chemistry and biology. *Chemical Society Reviews*, **2021**, 50, 4804-4811	58.5	38
136	Selective Oxygenation of Cyclohexene by Dioxygen via an Iron(V)-Oxo Complex-Autocatalyzed Reaction. *Inorganic Chemistry*, **2017**, 56, 5096-5104	5.1	37

135	Structure and reactivity of the first-row d-block metal-superoxo complexes. *Dalton Transactions*, **2019**, 48, 9469-9489	4.3	37
134	Fine Control of the Redox Reactivity of a Nonheme Iron(III)-Peroxo Complex by Binding Redox-Inactive Metal Ions. *Angewandte Chemie - International Edition*, **2017**, 56, 801-805	16.4	36
133	Manganese complex-catalyzed oxidation and oxidative kinetic resolution of secondary alcohols by hydrogen peroxide. *Chemical Science*, **2017**, 8, 7476-7482	9.4	36
132	Switchover of the Mechanism between Electron Transfer and Hydrogen-Atom Transfer for a Protonated Manganese(IV)-Oxo Complex by Changing Only the Reaction Temperature. *Angewandte Chemie - International Edition*, **2016**, 55, 7450-4	16.4	36
131	Kinetics and mechanisms of catalytic water oxidation. *Dalton Transactions*, **2019**, 48, 779-798	4.3	35
130	Mechanistic dichotomies in redox reactions of mononuclear metal-oxygen intermediates. *Chemical Society Reviews*, **2020**, 49, 8988-9027	58.5	35
129	Mononuclear nonheme iron(IV)-oxo and manganese(IV)-oxo complexes in oxidation reactions: experimental results prove theoretical prediction. *Chemical Communications*, **2015**, 51, 13094-7	5.8	34
128	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	16.4	33
127	A mononuclear manganese(iii)-hydroperoxo complex: synthesis by activating dioxygen and reactivity in electrophilic and nucleophilic reactions. *Chemical Communications*, **2018**, 54, 1209-1212	5.8	33
126	Water as an Oxygen Source in the Generation of Mononuclear Nonheme Iron(IV) Oxo Complexes. *Angewandte Chemie*, **2009**, 121, 1835-1838	3.6	33
125	A Highly Reactive Oxoiron(IV) Complex Supported by a Bioinspired N O Macrocyclic Ligand. *Angewandte Chemie - International Edition*, **2017**, 56, 14384-14388	16.4	32
124	Electron-transfer properties of a nonheme manganese(IV)-oxo complex acting as a stronger one-electron oxidant than the iron(IV)-oxo analogue. *Chemical Communications*, **2012**, 48, 11187-9	5.8	32
123	Relationships among structure and spectroscopic properties in tetrahedrally distorted copper(II) (+)-sparteine dichloride. *Inorganic Chemistry Communication*, **2003**, 6, 197-201	3.1	31
122	Reactions of Co(III)-nitrosyl complexes with superoxide and their mechanistic insights. *Journal of the American Chemical Society*, **2015**, 137, 4284-7	16.4	30
121	Autocatalytic formation of an iron(IV)-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, 8042-9	16.4	30
120	Paramagnetism-based refinement strategy for the solution structure of human alpha-parvalbumin. *Biochemistry*, **2004**, 43, 5562-73	3.2	29
119	Structural Characterization and Remarkable Axial Ligand Effect on the Nucleophilic Reactivity of a Nonheme Manganese(III)-Peroxo Complex. *Angewandte Chemie*, **2009**, 121, 4214-4217	3.6	28
118	Metal ion-coupled electron-transfer reactions of metal-oxygen complexes. *Coordination Chemistry Reviews*, **2020**, 410, 213219	23.2	27

117	Immobilization of Molecular Catalysts for Enhanced Redox Catalysis. *ChemCatChem*, **2018**, 10, 1686-1702	5.2	27
116	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	2.7	26
115	Water as an Oxygen Source: Synthesis, Characterization, and Reactivity Studies of a Mononuclear Nonheme Manganese(IV) Oxo Complex. *Angewandte Chemie*, **2010**, 122, 8366-8370	3.6	26
114	[Mn(tmc)(O2)]+: A Side-On Peroxido Manganese(III) Complex Bearing a Non-Heme Ligand. *Angewandte Chemie*, **2007**, 119, 381-384	3.6	26
113	Structural and magnetic characterization of copper(II) halide complexes with 2-(dimethylaminomethyl)-3-hydroxypyridine. *Polyhedron*, **2005**, 24, 377-382	2.7	26
112	A nonheme manganese(IV)-oxo species generated in photocatalytic reaction using water as an oxygen source. *Chemical Communications*, **2015**, 51, 4013-6	5.8	25
111	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	16.4	24
110	Manganese(V)-oxo corroles in hydride-transfer reactions. *Chemical Communications*, **2010**, 46, 8160-2	5.8	24
109	Factors That Control the Reactivity of Cobalt(III)-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	16.4	24
108	Effects of proton acceptors on formation of a non-heme iron(IV)-oxo complex via proton-coupled electron transfer. *Inorganic Chemistry*, **2013**, 52, 3094-101	5.1	23
107	Combined experimental and theoretical approach to understand the reactivity of a mononuclear Cu(II)-hydroperoxo complex in oxygenation reactions. *Journal of Physical Chemistry A*, **2008**, 112, 13102-8	2.8	23
106	A mononuclear nonheme cobalt(iii)-hydroperoxide complex with an amphoteric reactivity in electrophilic and nucleophilic oxidative reactions. *Dalton Transactions*, **2016**, 45, 14511-5	4.3	23
105	Synthesis, characterization, and reactivity of cobalt(III)-oxygen complexes bearing a macrocyclic N-tetramethylated cyclam ligand. *Chemistry - A European Journal*, **2013**, 19, 14112-8	4.8	22
104	Enhanced Electron Transfer Reactivity of a Nonheme Iron(IV)-Imido Complex as Compared to the Iron(IV)-Oxo Analogue. *Angewandte Chemie - International Edition*, **2016**, 55, 3709-13	16.4	22
103	Demonstration of the Heterolytic O?O Bond Cleavage of Putative Nonheme Iron(II)?OOH(R) Complexes for Fenton and Enzymatic Reactions. *Angewandte Chemie*, **2014**, 126, 7977-7981	3.6	21
102	Unified Mechanism of Oxygen Atom Transfer and Hydrogen Atom Transfer Reactions with a Triflic Acid-Bound Nonheme Manganese(IV)-Oxo Complex via Outer-Sphere Electron Transfer. *Journal of the American Chemical Society*, **2019**, 141, 2614-2622	16.4	21
101	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	16.4	21
100	Photocatalytic Oxygenation Reactions Using Water and Dioxygen. *ChemSusChem*, **2019**, 12, 3931-3940	8.3	20

99	A High-Valent Manganese(IV)-Oxo-Cerium(IV) Complex and Its Enhanced Oxidizing Reactivity. *Angewandte Chemie - International Edition*, **2019**, 58, 16124-16129	16.4	20
98	Mimicry and functions of photosynthetic reaction centers. *Biochemical Society Transactions*, **2018**, 46, 1279-1288	5.1	20
97	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	16.4	19
96	Tunneling Controls the Reaction Pathway in the Deformylation of Aldehydes by a Nonheme Iron(III)-Hydroperoxo Complex: Hydrogen Atom Abstraction versus Nucleophilic Addition. *Journal of the American Chemical Society*, **2019**, 141, 7675-7679	16.4	19
95	An amphoteric reactivity of a mixed-valent bis(□xo)dimanganese(III,IV) complex acting as an electrophile and a nucleophile. *Dalton Transactions*, **2016**, 45, 376-83	4.3	19
94	A paramagnetic probe to localize residues next to carboxylates on protein surfaces. *Journal of Biological Inorganic Chemistry*, **2002**, 7, 617-22	3.7	19
93	Synthesis, Characterization, and Structure of Metal(II) (-)-Sparteine Complexes Containing Acetate Ligands. *Journal of Coordination Chemistry*, **2003**, 56, 635-646	1.6	19
92	A Mononuclear Non-heme Manganese(III)-Aqua Complex as a New Active Oxidant in Hydrogen Atom Transfer Reactions. *Journal of the American Chemical Society*, **2018**, 140, 12695-12699	16.4	19
91	Catalytic recycling of NAD(P)H. *Journal of Inorganic Biochemistry*, **2019**, 199, 110777	4.2	18
90	Mechanistic insights into the reactions of hydride transfer versus hydrogen atom transfer by a trans-dioxoruthenium(VI) complex. *Dalton Transactions*, **2015**, 44, 7634-42	4.3	18
89	A Mononuclear Nonheme Iron(IV)-Amido Complex Relevant for the Compound II Chemistry of Cytochrome P450. *Journal of the American Chemical Society*, **2019**, 141, 80-83	16.4	18
88	Effects of Lewis Acids on Photoredox Catalysis. *Asian Journal of Organic Chemistry*, **2017**, 6, 397-409	3	17
87	Structure and spin state of nonheme FeO complexes depending on temperature: predictive insights from DFT calculations and experiments. *Chemical Science*, **2017**, 8, 5460-5467	9.4	17
86	Tunneling Effect That Changes the Reaction Pathway from Epoxidation to Hydroxylation in the Oxidation of Cyclohexene by a Compound I Model of Cytochrome P450. *Journal of Physical Chemistry Letters*, **2017**, 8, 1557-1561	6.4	17
85	An autocatalytic radical chain pathway in formation of an iron(IV)-oxo complex by oxidation of an iron(II) complex with dioxygen and isopropanol. *Chemical Communications*, **2013**, 49, 2500-2	5.8	17
84	Polymorphism and weak antiferromagnetic interactions in dibromo[(□-sparteine-N,N?]copper(II). *Inorganica Chimica Acta*, **2004**, 357, 2602-2608	2.7	17
83	Acid Catalysis via Acid-Promoted Electron Transfer. *Bulletin of the Korean Chemical Society*, **2020**, 41, 1217-1232	1.2	17
82	Artificial Photosynthesis for Production of ATP, NAD(P)H, and Hydrogen Peroxide. *ChemPhotoChem* , **2018**, 2, 121-135	3.3	17

81	A Chromium(III)-Superoxo Complex as a Three-Electron Oxidant with a Large Tunneling Effect in Multi-Electron Oxidation of NADH Analogues. *Angewandte Chemie - International Edition*, **2017**, 56, 3510-3515	16.4	16
80	Identifying Intermediates in Electrocatalytic Water Oxidation with a Manganese Corrole Complex. *Journal of the American Chemical Society*, **2021**, 143, 14613-14621	16.4	16
79	Tuning the Reactivity of Chromium(III)-Superoxo Species by Coordinating Axial Ligands. *Inorganic Chemistry*, **2015**, 54, 10513-20	5.1	15
78	Mn(III)-Iodosylarene Porphyrins as an Active Oxidant in Oxidation Reactions: Synthesis, Characterization, and Reactivity Studies. *Inorganic Chemistry*, **2018**, 57, 10232-10240	5.1	15
77	Selective complexation of 3d metal(II) ions with multidentate and chiral isomers derived from condensation of 2-pyridinecarboxaldehyde with triethylenetetramine. *Dalton Transactions*, **2009**, 126-33	4.3	15
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