

Wonwoo Nam

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382
papers

25,041
citations

87
h-index

139
g-index

407
ext. papers

27,219
ext. citations

10.3
avg, IF

7.37
L-index

#	Paper	IF	Citations
382	High-valent iron(IV)-oxo complexes of heme and non-heme ligands in oxygenation reactions. <i>Accounts of Chemical Research</i> , 2007 , 40, 522-31	24.3	938
381	Crystallographic and spectroscopic characterization of a nonheme Fe(IV)-O complex. <i>Science</i> , 2003 , 299, 1037-9	33.3	775
380	A highly selective fluorescent chemosensor for Pb ²⁺ . <i>Journal of the American Chemical Society</i> , 2005 , 127, 10107-11	16.4	580
379	A highly active zinc catalyst for the controlled polymerization of lactide. <i>Journal of the American Chemical Society</i> , 2003 , 125, 11350-9	16.4	539
378	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, 472-3	16.4	534
377	Photofunctional triplet excited states of cyclometalated Ir(III) complexes: beyond electroluminescence. <i>Chemical Society Reviews</i> , 2012 , 41, 7061-84	58.5	505
376	Tuning reactivity and mechanism in oxidation reactions by mononuclear nonheme iron(IV)-oxo complexes. <i>Accounts of Chemical Research</i> , 2014 , 47, 1146-54	24.3	374
375	Axial ligand tuning of a nonheme iron(IV)-oxo unit for hydrogen atom abstraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 19181-6	11.5	344
374	Status of reactive non-heme metal-oxygen intermediates in chemical and enzymatic reactions. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13942-58	16.4	336
373	An FeIV=O complex of a tetradentate tripodal nonheme ligand. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 3665-70	11.5	299
372	Structure and reactivity of a mononuclear non-haem iron(III)-peroxo complex. <i>Nature</i> , 2011 , 478, 502-5	50.4	262
371	A thiolate-ligated nonheme oxoiron(IV) complex relevant to cytochrome P450. <i>Science</i> , 2005 , 310, 1000-3	33.3	228
370	Synthetic mononuclear nonheme iron-oxygen intermediates. <i>Accounts of Chemical Research</i> , 2015 , 48, 2415-23	24.3	221
369	Phosphorescent sensor for robust quantification of copper(II) ion. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11488-91	16.4	213
368	Synthesis, characterization, and reactivities of manganese(V)-oxo porphyrin complexes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1268-77	16.4	213
367	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, 2630-4	16.4	211
366	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	16.4	211

365	Crystal structure of a metal ion-bound oxoiron(IV) complex and implications for biological electron transfer. <i>Nature Chemistry</i> , 2010 , 2, 756-9	17.6	199
364	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	35.4	196
363	Phosphorescent sensor for biological mobile zinc. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18328-42	16.4	194
362	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	16.4	183
361	A two-state reactivity rationale for counterintuitive axial ligand effects on the C-H activation reactivity of nonheme FeIV=O oxidants. <i>Chemistry - A European Journal</i> , 2008 , 14, 1740-56	4.8	181
360	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	16.8	179
359	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, 20088-91	16.4	177
358	Metal Complex-Catalyzed Epoxidation of Olefins by Dioxygen with Co-Oxidation of Aldehydes. A Mechanistic Study. <i>Inorganic Chemistry</i> , 1996 , 35, 1045-1049	5.1	170
357	Mononuclear metal-O ₂ complexes bearing macrocyclic N-tetramethylated cyclam ligands. <i>Accounts of Chemical Research</i> , 2012 , 45, 1321-30	24.3	161
356	Combined experimental and theoretical study on aromatic hydroxylation by mononuclear nonheme iron(IV)-oxo complexes. <i>Inorganic Chemistry</i> , 2007 , 46, 4632-41	5.1	161
355	Axial ligand effects on the geometric and electronic structures of nonheme oxoiron(IV) complexes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 12394-407	16.4	160
354	A mononuclear non-heme manganese(IV)-oxo complex binding redox-inactive metal ions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6388-91	16.4	156
353	A mononuclear nonheme iron(IV)-oxo complex which is more reactive than cytochrome P450 model compound I. <i>Chemical Science</i> , 2011 , 2, 1039	9.4	156
352	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, 5236-9	16.4	153
351	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, 403-5	16.4	151
350	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. <i>Journal of the American Chemical Society</i> , 2010 , 132, 10668-70	16.4	148
349	Water oxidation catalysis with nonheme iron complexes under acidic and basic conditions: homogeneous or heterogeneous?. <i>Inorganic Chemistry</i> , 2013 , 52, 9522-31	5.1	144
348	Axial ligand substituted nonheme FeIV=O complexes: observation of near-UV LMCT bands and Fe=O Raman vibrations. <i>Journal of the American Chemical Society</i> , 2005 , 127, 12494-5	16.4	144

347	Mechanistic insight into alcohol oxidation by high-valent iron-oxo complexes of heme and nonheme ligands. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 4235-9	16.4	144
346	Intrinsic properties and reactivities of mononuclear nonheme iron-oxo complexes bearing the tetramethylcyclam ligand. <i>Coordination Chemistry Reviews</i> , 2013 , 257, 381-393	23.2	140
345	Oxoiron(IV) porphyrin pi-cation radical complexes with a chameleon behavior in cytochrome P450 model reactions. <i>Journal of Biological Inorganic Chemistry</i> , 2005 , 10, 294-304	3.7	140
344	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	16.4	140
343	Geometric and electronic structure and reactivity of a mononuclear "side-on" nickel(III)-peroxo complex. <i>Nature Chemistry</i> , 2009 , 1, 568-72	17.6	138
342	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, 1197-210	58.5	137
341	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, 16750-61	16.4	137
340	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, 14674-5	16.4	133
339	Dioxygen activation and catalytic aerobic oxidation by a mononuclear nonheme iron(II) complex. <i>Journal of the American Chemical Society</i> , 2005 , 127, 4178-9	16.4	131
338	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, 20222-5	16.4	129
337	Fundamental electron-transfer properties of non-heme oxoiron(IV) complexes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 434-5	16.4	128
336	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, 2067-71	4.8	124
335	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	16.4	124
334	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	9.4	123
333	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	5.1	121
332	Cyclometalated iridium(III) complexes for phosphorescence sensing of biological metal ions. <i>Inorganic Chemistry</i> , 2014 , 53, 1804-15	5.1	119
331	Spectroscopic capture and reactivity of a low-spin cobalt(IV)-oxo complex stabilized by binding redox-inactive metal ions. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 10403-10407	16.4	118
330	[Mn(tmc)(O ₂)] ⁺ : a side-on peroxido manganese(III) complex bearing a non-heme ligand. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 377-80	16.4	118

329	Highly efficient photocatalytic oxygenation reactions using water as an oxygen source. <i>Nature Chemistry</i> , 2011 , 3, 38-41	17.6	114
328	Anionic ligand effect on the nature of epoxidizing intermediates in iron porphyrin complex-catalyzed epoxidation reactions. <i>Inorganic Chemistry</i> , 2002 , 41, 3647-52	5.1	114
327	Dioxygen activation chemistry by synthetic mononuclear nonheme iron, copper and chromium complexes. <i>Coordination Chemistry Reviews</i> , 2017 , 334, 25-42	23.2	112
326	Redox-inactive metal ions modulate the reactivity and oxygen release of mononuclear non-haem iron(III)-peroxo complexes. <i>Nature Chemistry</i> , 2014 , 6, 934-40	17.6	111
325	Enhanced electron-transfer reactivity of nonheme manganese(IV)-oxo complexes by binding scandium ions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9186-94	16.4	111
324	Synthesis, structural, and spectroscopic characterization and reactivities of mononuclear cobalt(III)-peroxo complexes. <i>Journal of the American Chemical Society</i> , 2010 , 132, 16977-86	16.4	110
323	Oxidizing intermediates in cytochrome P450 model reactions. <i>Journal of Biological Inorganic Chemistry</i> , 2004 , 9, 654-60	3.7	110
322	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, 8760-74	5.1	109
321	Determination of Reactive Intermediates in Iron Porphyrin Complex-Catalyzed Oxygenations of Hydrocarbons Using Isotopically Labeled Water: Mechanistic Insights. <i>Journal of the American Chemical Society</i> , 1997 , 119, 1916-1922	16.4	109
320	Synthetic control over photoinduced electron transfer in phosphorescence zinc sensors. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4771-87	16.4	107
319	Identification of an "end-on" nickel-superoxo adduct, [Ni(tmc)(O ₂)] ⁺ . <i>Journal of the American Chemical Society</i> , 2006 , 128, 14230-1	16.4	107
318	An "end-on" chromium(III)-superoxo complex: crystallographic and spectroscopic characterization and reactivity in C-H bond activation of hydrocarbons. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5958-9	16.4	105
317	Reactive intermediates in oxygenation reactions with mononuclear nonheme iron catalysts. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1257-60	16.4	103
316	Hydrogen atom abstraction and hydride transfer reactions by iron(IV)-oxo porphyrins. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 7321-4	16.4	103
315	Dioxygen activation by mononuclear nonheme iron(II) complexes generates iron-oxygen intermediates in the presence of an NADH analogue and proton. <i>Journal of the American Chemical Society</i> , 2009 , 131, 13910-1	16.4	102
314	A Manganese(V)-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, 8523-32	16.4	101
313	Structural characterization and remarkable axial ligand effect on the nucleophilic reactivity of a nonheme manganese(III)-peroxo complex. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4150-3	16.4	101
312	Lewis Acid Coupled Electron Transfer of Metal-Oxygen Intermediates. <i>Chemistry - A European Journal</i> , 2015 , 21, 17548-59	4.8	98

311	Enhanced reactivities of iron(IV)-oxo porphyrin pi-cation radicals in oxygenation reactions by electron-donating axial ligands. <i>Chemistry - A European Journal</i> , 2009 , 15, 10039-46	4.8	98
310	Unified view of oxidative C-H bond cleavage and sulfoxidation by a nonheme iron(IV)-oxo complex via Lewis acid-promoted electron transfer. <i>Inorganic Chemistry</i> , 2014 , 53, 3618-28	5.1	97
309	Comparison of high-spin and low-spin nonheme Fe(III)-OOH complexes in O-O bond homolysis and H-atom abstraction reactivities. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3286-99	16.4	96
308	Formation, stability, and reactivity of a mononuclear nonheme oxoiron(IV) complex in aqueous solution. <i>Chemical Communications</i> , 2005 , 1405-7	5.8	96
307	Nonheme oxoiron(IV) complexes of tris(2-pyridylmethyl)amine with cis-monoanionic ligands. <i>Inorganic Chemistry</i> , 2006 , 45, 6435-45	5.1	96
306	Synthesis and reactivity of a mononuclear non-haem cobalt(IV)-oxo complex. <i>Nature Communications</i> , 2017 , 8, 14839	17.4	94
305	Crystallographic and spectroscopic characterization and reactivities of a mononuclear non-haem iron(III)-superoxo complex. <i>Nature Communications</i> , 2014 , 5, 5440	17.4	94
304	Thermal and photocatalytic production of hydrogen with earth-abundant metal complexes. <i>Coordination Chemistry Reviews</i> , 2018 , 355, 54-73	23.2	93
303	Direct evidence for oxygen-atom exchange between nonheme oxoiron(IV) complexes and isotopically labeled water. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2417-20	16.4	93
302	Water as an oxygen source in the generation of mononuclear nonheme iron(IV) oxo complexes. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1803-6	16.4	92
301	A highly efficient non-heme manganese complex in oxygenation reactions. <i>Chemical Communications</i> , 2007 , 4623-5	5.8	91
300	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 This work was supported by Center for Cell Signaling Research (1000-0-100-000-0) and the Korean Research Foundation (KRF-2008-0-000-000) and	16.4	91
299	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	16.4	91
298	Oxidative N-dealkylation reactions by oxoiron(IV) complexes of nonheme and heme ligands. <i>Inorganic Chemistry</i> , 2007 , 46, 293-8	5.1	90
297	Hydrogen-atom abstraction reactions by manganese(V)- and manganese(IV)-oxo porphyrin complexes in aqueous solution. <i>Chemistry - A European Journal</i> , 2009 , 15, 11482-9	4.8	89
296	Iron and manganese oxo complexes, oxo wall and beyond. <i>Nature Reviews Chemistry</i> , 2020 , 4, 404-419	34.6	87
295	Catalytic four-electron reduction of O ₂ via rate-determining proton-coupled electron transfer to a dinuclear cobalt-II,2-peroxo complex. <i>Journal of the American Chemical Society</i> , 2012 , 134, 9906-9	16.4	87
294	Bronsted 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, 5052-61	16.4	86

293	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, 219-25	4.2	86
292	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, 11876-9	16.4	85
291	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, 936-43	16.4	83
290	Bioinspired chemical inversion of L-amino acids to D-amino acids. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1518-9	16.4	82
289	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, 3903-11	16.4	79
288	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, 8190-4	16.4	79
287	Reversible formation of iodosylbenzene-iron porphyrin intermediates in the reaction of oxoiron(IV) porphyrin pi-cation radicals and iodobenzene. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 109-11	16.4	79
286	Mononuclear nonheme ferric-peroxo complex in aldehyde deformylation. <i>Chemical Communications</i> , 2005 , 4529-31	5.8	79
285	Mononuclear nickel(II)-superoxo and nickel(III)-peroxo complexes bearing a common macrocyclic TMC ligand. <i>Chemical Science</i> , 2013 , 4, 1502-1508	9.4	78
284	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. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15134-42	16.4	78
283	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	5.8	76
282	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, 5577-87	4.8	75
281	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, 14030-2	16.4	74
280	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	16.4	74
279	Factors that control catalytic two- versus four-electron reduction of dioxygen by copper complexes. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7025-35	16.4	73
278	High conversion of olefins to cis-diols by non-heme iron catalysts and H ₂ O ₂ . <i>Chemical Communications</i> , 2002 , 1288-9	5.8	72
277	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, 1084-93	4.8	71
276	Scandium ion-enhanced oxidative dimerization and N-demethylation of N,N-dimethylanilines by a non-heme iron(IV)-oxo complex. <i>Inorganic Chemistry</i> , 2011 , 50, 11612-22	5.1	71

275	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, 7903-6	4.2	71
274	Mechanisms of catalytic reduction of CO with heme and nonheme metal complexes. <i>Chemical Science</i> , 2018 , 9, 6017-6034	9.4	71
273	Tuning the Reactivity of Mononuclear Nonheme Manganese(IV)-Oxo Complexes by Triflic Acid. <i>Chemical Science</i> , 2015 , 6, 3624-3632	9.4	70
272	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, 8623-32	16.4	69
271	A Mononuclear Nonheme Iron(III)-Peroxo Complex Binding Redox-Inactive Metal Ions. <i>Chemical Science</i> , 2013 , 4, 3917-3923	9.4	69
270	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, 15294-7	16.4	69
269	Photocatalytic generation of a non-heme oxoiron(IV) complex with water as an oxygen source. <i>Journal of the American Chemical Society</i> , 2011 , 133, 3249-51	16.4	69
268	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. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 3356-9	16.4	69
267	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	5.1	69
266	High-valent metal-oxo intermediates in energy demanding processes: from dioxygen reduction to water splitting. <i>Current Opinion in Chemical Biology</i> , 2015 , 25, 159-71	9.7	68
265	Effect of anionic axial ligands on the formation of oxoiron(IV) porphyrin intermediates. <i>Inorganic Chemistry</i> , 2000 , 39, 5572-5	5.1	68
264	Hydrogen Atom Transfer Reactions of Mononuclear Nonheme Metal-Oxygen Intermediates. <i>Accounts of Chemical Research</i> , 2018 , 51, 2014-2022	24.3	68
263	Theoretical Investigations into C-H Bond Activation Reaction by Nonheme MnIVO Complexes: Multistate Reactivity with No Oxygen Rebound. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2851-2856	6.4	66
262	A fluorescence turn-on H ₂ O ₂ probe exhibits lysosome-localized fluorescence signals. <i>Chemical Communications</i> , 2012 , 48, 5449-51	5.8	66
261	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, 11713-22	2.8	66
260	[Fe(IV)O(TBC)(CH ₃ CN)] ²⁺ : comparative reactivity of iron(IV)-oxo species with constrained equatorial cyclam ligation. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11791-806	16.4	65
259	Solar-Driven Production of Hydrogen Peroxide from Water and Dioxygen. <i>Chemistry - A European Journal</i> , 2018 , 24, 5016-5031	4.8	64
258	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. <i>Inorganic Chemistry</i> , 2012 , 51, 10025-36	5.1	64

257	A mononuclear non-heme high-spin iron(III)-hydroperoxo complex as an active oxidant in sulfoxidation reactions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8838-41	16.4	64
256	Manganese displacement from Zinpyr-1 allows zinc detection by fluorescence microscopy and magnetic resonance imaging. <i>Chemical Communications</i> , 2010 , 46, 4139-41	5.8	64
255	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	5.1	64
254	Mechanisms of Two-Electron versus Four-Electron Reduction of Dioxygen Catalyzed by Earth-Abundant Metal Complexes. <i>ChemCatChem</i> , 2018 , 10, 9-28	5.2	63
253	Experimental and theoretical evidence for nonheme iron(III) alkylperoxo species as sluggish oxidants in oxygenation reactions. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 2291-4	16.4	62
252	Nonheme iron(II) complexes of macrocyclic ligands in the generation of oxoiron(IV) complexes and the catalytic epoxidation of olefins. <i>Journal of Inorganic Biochemistry</i> , 2006 , 100, 627-33	4.2	62
251	Mechanistic insight into the hydroxylation of alkanes by a nonheme iron(V)-oxo complex. <i>Chemical Communications</i> , 2014 , 50, 5572-5	5.8	61
250	Dioxygen Activation by a Non-Heme Iron(II) Complex: Theoretical Study toward Understanding Ferric-Superoxo Complexes. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 915-26	6.4	61
249	Mechanistic insights into hydride-transfer and electron-transfer reactions by a manganese(IV)-oxo porphyrin complex. <i>Journal of the American Chemical Society</i> , 2009 , 131, 17127-34	16.4	61
248	Homogeneous and Heterogeneous Photocatalytic Water Oxidation by Persulfate. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 1138-50	4.5	59
247	Chromium(IV)-peroxo complex formation and its nitric oxide dioxygenase reactivity. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15269-72	16.4	59
246	Mechanistic insight into the aromatic hydroxylation by high-valent iron(IV)-oxo porphyrin pi-cation radical complexes. <i>Journal of Organic Chemistry</i> , 2007 , 72, 6301-4	4.2	59
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