Lawrence Que Jr

List of Publications by Year
in descending order

478 papers	44,617 citations	1457 107 h-index	3173 186 g-index
504 all docs	504 docs citations	504 times ranked	14127 citing authors

#	Article	IF	Citations
1	Dioxygen Activation at Mononuclear Nonheme Iron Active Sites:Â Enzymes, Models, and Intermediates. Chemical Reviews, 2004, 104, 939-986.	23.0	2,276
2	Catalysis Research of Relevance to Carbon Management:â€‰ Progress, Challenges, and Opportunities. Chemical Reviews, 2001, 101, 953-996.	23.0	1,311
3	Biologically inspired oxidation catalysis. Nature, 2008, 455, 333-340.	13.7	1,259
4	Crystallographic and Spectroscopic Characterization of a Nonheme Fe(IV)&cjs0811;O Complex. Science, 2003, 299, 1037-1039.	6.0	870
5	Dioxygen Activation by Enzymes with Mononuclear Non-Heme Iron Active Sites. Chemical Reviews, 1996, 96, 2607-2624.	23.0	761
6	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
7	An Fe2IVO2 Diamond Core Structure for the Key Intermediate Q of Methane Monooxygenase. Science, 1997, 275, 515-518.	6.0	583
8	The Road to Non-Heme Oxoferryls and Beyond. Accounts of Chemical Research, 2007, 40, 493-500.	7.6	465
9	Biomimetic nonheme iron catalysts for alkane hydroxylation. Coordination Chemistry Reviews, 2000, 200-202, 517-544.	9.5	464
10	High-valent nonheme iron-oxo complexes: Synthesis, structure, and spectroscopy. Coordination Chemistry Reviews, 2013, 257, 414-428.	9.5	464
11	Stereospecific Alkane Hydroxylation by Non-Heme Iron Catalysts:Â Mechanistic Evidence for an FeVO Active Species. Journal of the American Chemical Society, 2001, 123, 6327-6337.	6.6	461
12	The 2-His-1-Carboxylate Facial Triad - An Emerging Structural Motif in Mononuclear Non-Heme Iron(II) Enzymes. FEBS Journal, 1997, 250, 625-629.	0.2	458
13	Olefin Cis-Dihydroxylation versus Epoxidation by Non-Heme Iron Catalysts:Â Two Faces of an FeIIIâ ̃OOH Coin. Journal of the American Chemical Society, 2002, 124, 3026-3035.	6.6	437
14	Chemical and Spectroscopic Evidence for an FeV-Oxo Complex. Science, 2007, 315, 835-838.	6.0	435
15	Bis(Î¼-oxo)dimetal â€œDiamondâ€•Cores in Copper and Iron Complexes Relevant to Biocatalysis. Angewandte Chemie - International Edition, 2002, 41, 1114-1137.	7.2	397
16	The 2-His-1-carboxylate facial triad: a versatile platform for dioxygen activation by mononuclear non-heme iron(II) enzymes. Journal of Biological Inorganic Chemistry, 2005, 10, 87-93.	1.1	390
17	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
18	Dioxygen Activation by Nonheme Diiron Enzymes: Diverse Dioxygen Adducts, High-Valent Intermediates, and Related Model Complexes. Chemical Reviews, 2018, 118, 2554-2592.	23.0	342

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19	Two-State Reactivity in Alkane Hydroxylation by Non-Heme Ironâ˘'Oxo Complexes. Journal of the American Chemical Society, 2006, 128, 8590-8606.	6.6	331
20	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
21	Aqueous FeIVï£¾O: Spectroscopic Identification and Oxo-Group Exchange. Angewandte Chemie - International Edition, 2005, 44, 6871-6874.	7.2	320
22	Bioinspired Nonheme Iron Catalysts for Câ€"H and Câ•C Bond Oxidation: Insights into the Nature of the Metal-Based Oxidants. Accounts of Chemical Research, 2015, 48, 2612-2621.	7.6	318
23	Models for Nonheme Iron Intermediates:Â Structural Basis for Tuning the Spin States of Fe(TPA) Complexes. Journal of the American Chemical Society, 1997, 119, 4197-4205.	6.6	311
24	Stereospecific Alkane Hydroxylation with H2O2Catalyzed by an Iron(II)â˘'Tris(2-pyridylmethyl)amine Complex. Journal of the American Chemical Society, 1997, 119, 5964-5965.	6.6	310
25	Iron-Catalyzed Olefin Epoxidation in the Presence of Acetic Acid:â€‰ Insights into the Nature of the Metal-Based Oxidant. Journal of the American Chemical Society, 2007, 129, 15964-15972.	6.6	284
26	Dinuclear Iron- and Manganese-Oxo Sites in Biology. Progress in Inorganic Chemistry, 2007, , 97-200.	3.0	261
27	Modeling the Oxygen Activation Chemistry of Methane Monooxygenase and Ribonucleotide Reductase. Accounts of Chemical Research, 1996, 29, 190-196.	7.6	256
28	Structural, Spectroscopic, and Theoretical Characterization of Bis(Î¼-oxo)dicopper Complexes, Novel Intermediates in Copper-Mediated Dioxygen Activation. Journal of the American Chemical Society, 1996, 118, 11555-11574.	6.6	255
29	Nonheme Iron Centers in Oxygen Activation: Characterization of an Iron(III) Hydroperoxide Intermediate. Angewandte Chemie International Edition in English, 1995, 34, 1512-1514.	4.4	247
30	Structures of Nonheme Oxoiron(IV) Complexes from X-ray Crystallography, NMR Spectroscopy, and DFT Calculations. Angewandte Chemie - International Edition, 2005, 44, 3690-3694.	7.2	247
31	A Thiolate-Ligated Nonheme Oxoiron(IV) Complex Relevant to Cytochrome P450. Science, 2005, 310, 1000-1002.	6.0	246
32	A Synthetic Highâ€Spin Oxoiron(IV) Complex: Generation, Spectroscopic Characterization, and Reactivity. Angewandte Chemie - International Edition, 2009, 48, 3622-3626.	7.2	245
33	Modeling Rieske Dioxygenases:â€‰ The First Example of Iron-Catalyzed Asymmetric cis-Dihydroxylation of Olefins. Journal of the American Chemical Society, 2001, 123, 6722-6723.	6.6	241
34	A High-Valent Nonheme Iron Intermediate. Structure and Properties of [Fe2(.mu.-O)2(5-Me-TPA)2](ClO4)3. Journal of the American Chemical Society, 1995, 117, 2778-2792.	6.6	238
35	End-On and Side-On Peroxo Derivatives of Non-Heme Iron Complexes with Pentadentate Ligands:Â Models for Putative Intermediates in Biological Iron/Dioxygen Chemistry. Inorganic Chemistry, 2003, 42, 2639-2653.	1.9	237
36	Alkane functionalization at nonheme iron centers. Stoichiometric transfer of metal-bound ligands to alkane. Journal of the American Chemical Society, 1993, 115, 11328-11335.	6.6	234

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37	Model studies of iron-tyrosinate proteins. Journal of the American Chemical Society, 1985, 107, 614-620.	6.6	230
38	Functional models for catechol 1,2-dioxygenase. The role of the iron(III) center. Journal of the American Chemical Society, 1988, 110, 8085-8092.	6.6	221
39	A highly reactive functional model for the catechol dioxygenases. Structure and properties of [Fe(TPA)DBC]BPh4. Journal of the American Chemical Society, 1991, 113, 9200-9204.	6.6	220
40	Synthetic Models of the Inactive Copper(II)âˆ’Tyrosinate and Active Copper(II)âˆ’Tyrosyl Radical Forms of Galactose and Glyoxal Oxidases. Journal of the American Chemical Society, 1997, 119, 8217-8227.	6.6	218
41	One motif--many different reactions. , 2000, 7, 182-184.		206
42	Million-fold activation of the [Fe2(Âµ-O)2] diamond core for Câ€“H bond cleavage. Nature Chemistry, 2010, 2, 400-405.	6.6	206
43	Spectroscopic and Quantum Chemical Studies on Low-Spin Fe^{IV}O Complexes:â€‰ Feâˆ’O Bonding and Its Contributions to Reactivity. Journal of the American Chemical Society, 2007, 129, 15983-15996.	6.6	205
44	Ironâ€Catalyzed Asymmetric Olefin <i>cis</i>â€Dihydroxylation with 97â€‰% Enantiomeric Excess. Angewandte Chemie - International Edition, 2008, 47, 1887-1889.	7.2	205
45	Toward the Synthesis of More Reactive <i>S</i> = 2 Non-Heme Oxoiron(IV) Complexes. Accounts of Chemical Research, 2015, 48, 2443-2452.	7.6	205
46	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
47	Alkane Hydroxylation by a Nonheme Iron Catalyst that Challenges the Heme Paradigm for Oxygenase Action. Journal of the American Chemical Society, 2007, 129, 15766-15767.	6.6	195
48	Iron Chemistry of a Pentadentate Ligand That Generates a Metastable FeIIIâˆ’OOH Intermediate. Inorganic Chemistry, 1999, 38, 1929-1936.	1.9	188
49	Double-Strand Hydrolysis of Plasmid DNA by Dicerium Complexes at 37 Â°C. Journal of the American Chemical Society, 2001, 123, 1898-1904.	6.6	188
50	(.mu.-Oxo)(.mu.-carboxylato)diiron(III) complexes with distinct iron sites. Consequences of the inequivalence and its relevance to dinuclear iron-oxo proteins. Journal of the American Chemical Society, 1990, 112, 1554-1562.	6.6	187
51	EXAFS Characterization of the Intermediate X Generated During the Assembly of theEscherichia coliRibonucleotide Reductase R2 Diferric Tyrosyl Radical Cofactor. Journal of the American Chemical Society, 1998, 120, 849-860.	6.6	186
52	High-valent nonheme iron-oxo species in biomimetic oxidations. Journal of Inorganic Biochemistry, 2006, 100, 421-433.	1.5	186
53	Oxygen activating nonheme iron enzymes. Current Opinion in Chemical Biology, 1998, 2, 159-172.	2.8	185
54	Theoretical Investigation of Câˆ’H Hydroxylation by (N4Py)FeIVO2+:Â An Oxidant More Powerful than P450?. Journal of the American Chemical Society, 2005, 127, 8026-8027.	6.6	185

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55	Catalytic Oxidation with a Non-Heme Iron Complex That Generates a Low-Spin FeIIIOOH Intermediate. Chemistry - A European Journal, 2000, 6, 2152-2159.	1.7	183
56	Raman Evidence for a Weakened Oâˆ’O Bond in Mononuclear Low-Spin Iron(III)âˆ’Hydroperoxides. Journal of the American Chemical Society, 1999, 121, 264-265.	6.6	179
57	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
58	Evidence for the participation of a high-valent ironâ€“oxo species in stereospecific alkane hydroxylation by a non-heme iron catalyst. Chemical Communications, 1999, , 1375-1376.	2.2	175
59	Dioxygen activation by nonheme iron enzymes with the 2-His-1-carboxylate facial triad that generate high-valent oxoiron oxidants. Journal of Biological Inorganic Chemistry, 2017, 22, 339-365.	1.1	174
60	Fe(TPA)-Catalyzed Alkane Hydroxylation. Metal-Based Oxidation vs Radical Chain Autoxidation. Journal of the American Chemical Society, 1996, 118, 4373-4379.	6.6	173
61	Ligand Topology Tuning of Iron-Catalyzed Hydrocarbon Oxidations We thank the National Institutes of Health for financial support (GM33162 to L.Q.) and Fundacio La Caixa for a postdoctoral fellowship (M.C.).. Angewandte Chemie - International Edition, 2002, 41, 2179.	7.2	172
62	Models for iron-oxo proteins. Structures and properties of FeIIFeIII, ZnIIFeIII, and FeIIGaIII complexes with (.mu.-phenoxo)bis(.mu.-carboxylato)dimetal cores. Journal of the American Chemical Society, 1989, 111, 6183-6195.	6.6	167
63	A Putative Monooxygenase Mimic Which Functions via Well-Disguised Free Radical Chemistry1. Journal of the American Chemical Society, 1997, 119, 10594-10598.	6.6	166
64	Crystal Structure of a Synthetic High-Valent Complex with an Fe2(Î¼-O)2Diamond Core. Implications for the Core Structures of Methane Monooxygenase Intermediate Q and Ribonucleotide Reductase Intermediate X. Journal of the American Chemical Society, 1999, 121, 5230-5237.	6.6	165
65	The Crystal Structure of a High-Spin Oxoiron(IV) Complex and Characterization of Its Self-Decay Pathway. Journal of the American Chemical Society, 2010, 132, 8635-8644.	6.6	165
66	Crystal Structure Analysis of a Synthetic Non-Heme Diironï£¿O2 Adduct: Insight into the Mechanism of Oxygen Activation. Angewandte Chemie International Edition in English, 1996, 35, 618-620.	4.4	164
67	Spectroscopic and Quantum Chemical Characterization of the Electronic Structure and Bonding in a Non-Heme FeIVO Complex. Journal of the American Chemical Society, 2004, 126, 5378-5379.	6.6	164
68	Structures and properties of dibridged (.mu.-oxo)diiron(III) complexes. Effects of the Fe-O-Fe angle. Inorganic Chemistry, 1990, 29, 4629-4637.	1.9	162
69	Dioxygen binding to diferrous centers. Models for diiron-oxo proteins. Journal of the American Chemical Society, 1993, 115, 1851-1859.	6.6	162
70	X-ray Absorption Pre-Edge Studies of High-spin Iron(II) Complexes. Inorganic Chemistry, 1995, 34, 1036-1039.	1.9	159
71	cis-Dihydroxylation of Olefins by a Non-Heme Iron Catalyst: A Functional Model for Rieske Dioxygenases. Angewandte Chemie - International Edition, 1999, 38, 2227-2229.	7.2	159
72	A synthetic precedent for the [Fe ^{IV} ₂ (Î¼-O) ₂] diamond core proposed for methane monooxygenase intermediate Q. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20713-20718.	3.3	158

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73	Oxygen Activation by Nonheme Iron(II) Complexes: Î±-Keto Carboxylate versus Carboxylate. Journal of the American Chemical Society, 2003, 125, 7828-7842.	6.6	157
74	Alkane functionalization at (.mu.-oxo)diiron(III) centers. Journal of the American Chemical Society, 1993, 115, 9524-9530.	6.6	155
75	Protonâ€•and Reductantâ€Assisted Dioxygen Activation by a Nonheme Iron(II) Complex to Form an Oxoiron(IV) Intermediate. Angewandte Chemie - International Edition, 2008, 47, 7064-7067.	7.2	155
76	Crystallographic Comparison of Manganese- and Iron-Dependent Homoprotocatechuate 2,3-Dioxygenases. Journal of Bacteriology, 2004, 186, 1945-1958.	1.0	152
77	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
78	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
79	Trapping a Highly Reactive Nonheme Iron Intermediate That Oxygenates Strong Câ€"H Bonds with Stereoretention. Journal of the American Chemical Society, 2015, 137, 15833-15842.	6.6	149
80	Aliphatic Hydroxylation by a Bis(Î¼-oxo)dicopper(III) Complex. Angewandte Chemie - International Edition, 2000, 39, 398-400.	7.2	147
81	Biomimetic Aryl Hydroxylation Derived from Alkyl Hydroperoxide at a Nonheme Iron Center. Evidence for an FeIVO Oxidant. Journal of the American Chemical Society, 2003, 125, 2113-2128.	6.6	147
82	A Density Functional Study of Oâˆ'O Bond Cleavage for a Biomimetic Non-Heme Iron Complex Demonstrating an FeV-Intermediate. Journal of the American Chemical Society, 2002, 124, 11056-11063.	6.6	145
83	Catalytic Epoxidation and 1,2-Dihydroxylation of Olefins with Bispidineâ€"Iron(II)/H2O2 Systems. Angewandte Chemie - International Edition, 2006, 45, 3446-3449.	7.2	144
84	Nonheme oxoiron(<scp>iv</scp>) complexes of pentadentate N5 ligands: spectroscopy, electrochemistry, and oxidative reactivity. Chemical Science, 2013, 4, 282-291.	3.7	144
85	Modeling TauD-<i>J</i>: A High-Spin Nonheme Oxoiron(IV) Complex with High Reactivity toward Câ€"H Bonds. Journal of the American Chemical Society, 2015, 137, 2428-2431.	6.6	143
86	Modeling Copper-Dioxygen Reactivity in Proteins: Aliphatic C-H Bond Activation by a New Dicopper(II)-Peroxo Complex. Journal of the American Chemical Society, 1994, 116, 9785-9786.	6.6	140
87	Binucleating Ligand Structural Effects on (Î¼-Peroxo)- and Bis(Î¼-oxo)dicopper Complex Formation and Decay:â€‰ Competition between Arene Hydroxylation and Aliphatic Câˆ'H Bond Activation. Inorganic Chemistry, 1997, 36, 6343-6356.	1.9	138
88	Evidence for an oxygen evolving ironâ€"oxoâ€"cerium intermediate in iron-catalysed water oxidation. Nature Communications, 2015, 6, 5865.	5.8	136
89	Spectroscopic Properties and Electronic Structure of Low-Spin Fe(III)âˆ'Alkylperoxo Complexes:Â Homolytic Cleavage of the Oâˆ'O Bond. Journal of the American Chemical Society, 2001, 123, 8271-8290.	6.6	132
90	Synthetic Modeling of Nitrite Binding and Activation by Reduced Copper Proteins. Characterization of Copper(I)âˆ'Nitrite Complexes That Evolve Nitric Oxide. Journal of the American Chemical Society, 1996, 118, 763-776.	6.6	131

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91	The First Bis(.mu.-oxo)diiron(III) Complex. Structure and Magnetic Properties of [Fe2(.mu.-O)2(6TLA)2](ClO4)2. Journal of the American Chemical Society, 1995, 117, 1169-1170.	6.6	130
92	Manganese(II)-Dependent Extradiol-Cleaving Catechol Dioxygenase fromArthrobacter globiformisCM-2â€. Biochemistry, 1996, 35, 160-170.	1.2	130
93	Electronic Structure of High-Spin Iron(III)-Alkylperoxo Complexes and Its Relation to Low-Spin Analogues:? Reaction Coordinate of O-O Bond Homolysis. Journal of the American Chemical Society, 2001, 123, 12802-12816.	6.6	127
94	Models for .alpha.-Keto Acid-Dependent Non-heme Iron Enzymes: Structures and Reactivity of [FeII(L)(O2CCOPh)](ClO4) Complexes. Journal of the American Chemical Society, 1995, 117, 3999-4013.	6.6	123
95	Modeling Nonheme Diiron Enzymes:â€‰ Hydrocarbon Hydroxylation and Desaturation by a High-Valent Fe2O2 Diamond Core. Journal of the American Chemical Society, 1997, 119, 3635-3636.	6.6	123
96	Electronic Structure and Reactivity of Low-Spin Fe(III)â^'Hydroperoxo Complexes:â€‰ Comparison to Activated Bleomycin. Journal of the American Chemical Society, 2002, 124, 10810-10822.	6.6	121
97	(TAML)Fe^{IV}â•O Complex in Aqueous Solution: Synthesis and Spectroscopic and Computational Characterization. Inorganic Chemistry, 2008, 47, 3669-3678.	1.9	121
98	Oxygen Activation at Mononuclear Nonheme Iron Centers: A Superoxo Perspective. Inorganic Chemistry, 2010, 49, 3618-3628.	1.9	118
99	The Fundamental Role of Exchangeâ€Enhanced Reactivity in Cï£¿H Activation by <i>S</i>=2 Oxo Iron(IV) Complexes. Angewandte Chemie - International Edition, 2010, 49, 3342-3345.	7.2	117
100	A More Reactive Trigonal-Bipyramidal High-Spin Oxoiron(IV) Complex with a cis-Labile Site. Journal of the American Chemical Society, 2011, 133, 11880-11883.	6.6	117
101	Functional models for catechol 1,2-dioxygenase. Structure, reactivity, and mechanism. Journal of the American Chemical Society, 1987, 109, 5373-5380.	6.6	116
102	Iron-Catalyzed Olefincis-Dihydroxylation by H2O2:Â Electrophilic versus Nucleophilic Mechanisms. Journal of the American Chemical Society, 2003, 125, 9912-9913.	6.6	116
103	A Tosylimido Analogue of a Nonheme Oxoiron(IV) Complex. Angewandte Chemie - International Edition, 2006, 45, 7394-7397.	7.2	115
104	Complexes with FeIII2(Î¼-O)(Î¼-OH), FeIII2(Î¼-O)2, and [FeIII3(Î¼2-O)3] Cores:Â Structures, Spectroscopy, and Core Interconversions. Journal of the American Chemical Society, 1999, 121, 2226-2235.	6.6	114
105	Metalloproteins with phenolate coordination. Coordination Chemistry Reviews, 1983, 50, 73-108.	9.5	113
106	Iron-Catalyzed Olefincis-Dihydroxylation Using a Bio-InspiredN,N,O-Ligand. Journal of the American Chemical Society, 2005, 127, 15672-15673.	6.6	113
107	High-Valent Nonheme Iron. Two Distinct Iron(IV) Species Derived from a Common Iron(II) Precursor. Journal of the American Chemical Society, 2005, 127, 10512-10525.	6.6	113
108	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

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109	A Twoâ€State Reactivity Model Explains Unusual Kinetic Isotope Effect Patterns in Cï£¿H Bond Cleavage by Nonheme Oxoiron(IV) Complexes. Angewandte Chemie - International Edition, 2009, 48, 1291-1295.	7.2	111
110	Swapping metals in Fe- and Mn-dependent dioxygenases: Evidence for oxygen activation without a change in metal redox state. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7347-7352.	3.3	109
111	Characterization of a High-Spin Non-Heme Fe^{III}â€“OOH Intermediate and Its Quantitative Conversion to an Fe^{IV}â•O Complex. Journal of the American Chemical Society, 2011, 133, 7256-7259.	6.6	108
112	Rate-Determining Water-Assisted Oâ€“O Bond Cleavage of an Fe^{III}-OOH Intermediate in a Bio-inspired Nonheme Iron-Catalyzed Oxidation. Journal of the American Chemical Society, 2013, 135, 6438-6441.	6.6	108
113	Dioxygenase models. Crystal structures of the 2,4-pentanedionato, phenanthrenesemiquinone, and catecholato complexes of N,N'-ethylenebis(salicylideneaminato)iron(III). Inorganic Chemistry, 1983, 22, 50-55.	1.9	106
114	Models for non-heme iron oxygenases: a high-valent iron-oxo intermediate. Journal of the American Chemical Society, 1991, 113, 3988-3990.	6.6	106
115	Human deoxyhypusine hydroxylase, an enzyme involved in regulating cell growth, activates O ₂ with a nonheme diiron center. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14814-14819.	3.3	105
116	Modeling the <i>cis</i>â€Oxoâ€Labile Binding Site Motif of Nonâ€Heme Iron Oxygenases: Water Exchange and Oxidation Reactivity of a Nonâ€Heme Iron(IV)â€Oxo Compound Bearing a Tripodal Tetradentate Ligand. Chemistry - A European Journal, 2011, 17, 1622-1634.	1.7	105
117	EXAFS studies of binuclear iron proteins: hemerythrin and ribonucleotide reductase. Journal of the American Chemical Society, 1987, 109, 7857-7864.	6.6	104
118	A high-potential ferrous complex and its conversion to an alkylperoxoiron(III) intermediate. A lipoxygenase model. Journal of the American Chemical Society, 1993, 115, 811-813.	6.6	104
119	Formation of an Aqueous Oxoiron(IV) Complex at pH 2â€“6 from a Nonheme Iron(II) Complex and H2O2. Angewandte Chemie - International Edition, 2006, 45, 5681-5684.	7.2	104
120	Bioâ€inspired Nonheme Iron Oxidation Catalysis: Involvement of Oxoiron(V) Oxidants in Cleaving Strong Câˆ’H Bonds. Angewandte Chemie - International Edition, 2020, 59, 7332-7349.	7.2	104
121	A Bulky Benzoate Ligand for Modeling the Carboxylate-Rich Active Sites of Non-Heme Diiron Enzymes. Journal of the American Chemical Society, 1998, 120, 13531-13532.	6.6	103
122	Intramolecular Aromatic Amination through Iron-Mediated Nitrene Transfer. Angewandte Chemie - International Edition, 2003, 42, 4357-4360.	7.2	103
123	Models for iron-oxo proteins: dioxygen binding to a diferrous complex. Journal of the American Chemical Society, 1990, 112, 6423-6425.	6.6	101
124	Nonheme Oxoiron(IV) Complexes of Tris(2-pyridylmethyl)amine withcis-Monoanionic Ligands. Inorganic Chemistry, 2006, 45, 6435-6445.	1.9	101
125	Assessment of electronic structure methods for the determination of the ground spin states of Fe(<scp>ii</scp>), Fe(<scp>iii</scp>) and Fe(<scp>iv</scp>) complexes. Physical Chemistry Chemical Physics, 2017, 19, 13049-13069.	1.3	100
126	Iron-oxo aggregates. Crystal structures and solution characterization of 2-hydroxy-1,3-xylylenediaminetetraacetic acid complexes. Journal of the American Chemical Society, 1987, 109, 7993-8003.	6.6	99

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127	Resonance Raman Studies of Catecholate and Phenolate Complexes of Recombinant Human Tyrosine Hydroxylase. Biochemistry, 1995, 34, 5504-5510.	1.2	99
128	Models for Extradiol Cleaving Catechol Dioxygenases:Â Syntheses, Structures, and Reactivities of Iron(II)â^'Monoanionic Catecholate Complexes. Inorganic Chemistry, 2001, 40, 3181-3190.	1.9	99
129	In situ Formation of Peracetic Acid in Iron-Catalyzed Epoxidations by Hydrogen Peroxide in the Presence of Acetic Acid. Advanced Synthesis and Catalysis, 2004, 346, 190-194.	2.1	98
130	High-Energy-Resolution Fluorescence-Detected X-ray Absorption of the Q Intermediate of Soluble Methane Monooxygenase. Journal of the American Chemical Society, 2017, 139, 18024-18033.	6.6	98
131	Sc³⁺-Triggered Oxoiron(IV) Formation from O₂ and its Non-Heme Iron(II) Precursor via a Sc³⁺â€"Peroxoâ€"Fe³⁺ Intermediate. Journal of the American Chemical Society, 2013, 135, 10198-10201.	6.6	97
132	Characterization of a Paramagnetic Mononuclear Nonheme Iron-Superoxo Complex. Journal of the American Chemical Society, 2014, 136, 10846-10849.	6.6	97
133	Catecholate and phenolate iron complexes as models for the dioxygenases. Journal of the American Chemical Society, 1982, 104, 2789-2796.	6.6	96
134	A binuclear iron peroxide complex capable of olefin epoxidation. Journal of the American Chemical Society, 1986, 108, 5027-5028.	6.6	96
135	Nonheme Iron Oxidant Formed in the Presence of H₂O₂ and Acetic Acid Is the Cyclic Ferric Peracetate Complex, Not a Perferryloxo Complex. ACS Catalysis, 2013, 3, 1334-1341.	5.5	96
136	Models for Nonheme Diiron Enzymes. Assembly of a High-Valent Fe2(Î¼-O)2Diamond Core from Its Peroxo Precursor. Journal of the American Chemical Society, 1997, 119, 12683-12684.	6.6	95
137	The Flexible Fe2(Î¼-O)2 Diamond Core:â€‰ A Terminal Iron(IV)â^'Oxo Species Generated from the Oxidation of a Bis(Î¼-oxo)diiron(III) Complex. Journal of the American Chemical Society, 2000, 122, 3789-3790.	6.6	95
138	Alternative Reactivity of an Î±-Ketoglutarate-Dependent Iron(II) Oxygenase:Â Enzyme Self-Hydroxylation. Journal of the American Chemical Society, 2001, 123, 5126-5127.	6.6	94
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