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	Explorations of the nonheme high-valent iron-oxo landscape: crystal structure of a synthetic complex with an [FeIV2(Î¼-O)₂] diamond core relevant to the chemistry of sMMOH. Faraday Discussions, 2022, 234, 109-128.	1.6	3
2	Nonheme Diiron Oxygenase Mimic That Generates a Diferricâ€"Peroxo Intermediate Capable of Catalytic Olefin Epoxidation and Alkane Hydroxylation Including Cyclohexane. Inorganic Chemistry, 2022, 61, 37-41.	1.9	6
3	Alison Butler: papers in celebration of her 2018 ACS Alfred Bader Award in Bioorganic or Bioinorganic Chemistry. Journal of Biological Inorganic Chemistry, 2021, 26, 375-377.	1.1	0
4	Tuning the Hâ€Atom Transfer Reactivity of Iron(IV)â€Oxo Complexes as Probed by Infrared Photodissociation Spectroscopy. Angewandte Chemie, 2021, 133, 7202-7207.	1.6	4
5	Tuning the Hâ€Atom Transfer Reactivity of Iron(IV)â€Oxo Complexes as Probed by Infrared Photodissociation Spectroscopy. Angewandte Chemie - International Edition, 2021, 60, 7126-7131.	7.2	17
6	Spontaneous Formation of an Fe/Mn Diamond Core: Models for the Fe/Mn Sites in Class 1c Ribonucleotide Reductases. Inorganic Chemistry, 2021, 60, 8710-8721.	1.9	4
7	Unmasking Steps in Intramolecular Aromatic Hydroxylation by a Synthetic Nonheme Oxoiron(IV) Complex. Angewandte Chemie, 2021, 133, 21159-21166.	1.6	0
8	Unmasking Steps in Intramolecular Aromatic Hydroxylation by a Synthetic Nonheme Oxoiron(IV) Complex. Angewandte Chemie - International Edition, 2021, 60, 20991-20998.	7.2	6
9	Bioâ€inspired Nonheme Iron Oxidation Catalysis: Involvement of Oxoiron(V) Oxidants in Cleaving Strong Câ€"H Bonds. Angewandte Chemie - International Edition, 2020, 59, 7332-7349.	7.2	104
10	Bioinspirierte Nichtâ€HÃ¤mâ€Eisenoxidationskatalyse: Beteiligung von Oxoeisen(V)â€Oxidantien an der Spaltung starker Câ€Hâ€Bindungen. Angewandte Chemie, 2020, 132, 7400-7419.	1.6	13
11	Ce^{IV}â€•and HClO₄â€Promoted Assembly of an Fe₂^{IV}(Î¼â€O)₂ Diamond Core from its Monomeric Fe^{IV}=O Precursor at Room Temperature. Angewandte Chemie - International Edition, 2020, 59, 22484-22488.	7.2	5
12	Ce IV â€•and HClO 4 â€Promoted Assembly of an Fe 2 IV (Î¼â€O) 2 Diamond Core from its Monomeric Fe IV =O Precursor at Room Temperature. Angewandte Chemie, 2020, 132, 22670-22674.	1.6	0
13	Sc³⁺-Promoted Oâ€"O Bond Cleavage of a (Î¼-1,2-Peroxo)diiron(III) Species Formed from an Iron(II) Precursor and O₂ to Generate a Complex with an Fe^{IV}₂(Î¼-O)₂ Core. Journal of the American Chemical Society, 2020, 142, 4285-4297.	6.6	22
14	Octahedral iron(<scp>iv</scp>)â€"tosylimido complexes exhibiting single electron-oxidation reactivity. Chemical Science, 2019, 10, 9513-9529.	3.7	23
15	In celebration of Joan Broderick, 2019 recipient of the Alfred Bader Award in Bioorganic or Bioinorganic Chemistry. Journal of Biological Inorganic Chemistry, 2019, 24, 765-767.	1.1	0
16	Carboxylate Structural Effects on the Properties and Proton-Coupled Electron Transfer Reactivity of [CuO₂CR]²⁺ Cores. Inorganic Chemistry, 2019, 58, 15872-15879.	1.9	16
17	A Mn II Mn III â€Peroxide Complex Capable of Aldehyde Deformylation. Angewandte Chemie, 2019, 131, 5774-5778.	1.6	4
18	Spectroscopic and Reactivity Comparisons between Nonheme Oxoiron(IV) and Oxoiron(V) Species Bearing the Same Ancillary Ligand. Journal of the American Chemical Society, 2019, 141, 15078-15091.	6.6	48

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19	Acid p<i>K</i>_a Dependence in Oâ€“O Bond Heterolysis of a Nonheme Fe^{III}â€“OOH Intermediate To Form a Potent Fe^Vâ•O Oxidant with Heme Compound I-Like Reactivity. Journal of the American Chemical Society, 2019, 141, 16093-16107.	6.6	35
20	Structural implications of the paramagnetically shifted NMR signals from pyridine H atoms on synthetic nonheme FeIV=O complexes. Journal of Biological Inorganic Chemistry, 2019, 24, 533-545.	1.1	8
21	NMR Reveals That a Highly Reactive Nonheme Fe^{IV}=O Complex Retains Its Sixâ€Coordinate Geometry and <i>S</i>=1 State in Solution. Chemistry - A European Journal, 2019, 25, 9608-9613.	1.7	10
22	Activation of a Nonâ€Heme Fe^{III}â€OOH by a Second Fe^{III} to Hydroxylate Strong Câˆ’H Bonds: Possible Implications for Soluble Methane Monooxygenase. Angewandte Chemie, 2019, 131, 8572-8576.	1.6	11
23	Activation of a Nonâ€Heme Fe III â€OOH by a Second Fe III to Hydroxylate Strong Câˆ’H Bonds: Possible Implications for Soluble Methane Monooxygenase. Angewandte Chemie - International Edition, 2019, 58, 8484-8488.	7.2	31
24	A Mn^{II}Mn^{III}â€Peroxide Complex Capable of Aldehyde Deformylation. Angewandte Chemie - International Edition, 2019, 58, 5718-5722.	7.2	14
25	Facile Conversion of syn â€[Fe IV (O)(TMC)] 2+ into the anti Isomer via Meunier's Oxoâ€“Hydroxo Tautomerism Mechanism. Angewandte Chemie, 2019, 131, 2017-2021.	1.6	4
26	Facile Conversion of syn â€[Fe IV (O)(TMC)] 2+ into the anti Isomer via Meunier's Oxoâ€“Hydroxo Tautomerism Mechanism. Angewandte Chemie - International Edition, 2019, 58, 1995-1999.	7.2	9
27	Spectroscopic and DFT Characterization of a Highly Reactive Nonheme Fe^Vâ€“Oxo Intermediate. Journal of the American Chemical Society, 2018, 140, 3916-3928.	6.6	86
28	Mimicking Classâ€…Iâ€‰b Mn₂â€Ribonucleotide Reductase: A Mn^{II}₂ Complex and Its Reaction with Superoxide. Angewandte Chemie, 2018, 130, 930-934.	1.6	5
29	Sc³⁺ (or HClO₄) Activation of a Nonheme Fe^{III}â€“OOH Intermediate for the Rapid Hydroxylation of Cyclohexane and Benzene. Journal of the American Chemical Society, 2018, 140, 5798-5804.	6.6	61
30	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
31	Oxoiron(IV) complexes as synthons for the assembly of heterobimetallic centers such as the Fe/Mn active site of Class Ic ribonucleotide reductases. Journal of Biological Inorganic Chemistry, 2018, 23, 155-165.	1.1	6
32	Diiron monooxygenases in natural product biosynthesis. Natural Product Reports, 2018, 35, 646-659.	5.2	44
33	Acidâ€Triggered Oâˆ’O Bond Heterolysis of a Nonheme Fe^{III}(OOH) Species for the Stereospecific Hydroxylation of Strong Câˆ’H Bonds. Chemistry - A European Journal, 2018, 24, 5331-5340.	1.7	43
34	On the Lewis Acidity of the Oxoiron(IV) Unit in a Tetramethylcyclam Complex. Chemistry - A European Journal, 2018, 24, 5373-5378.	1.7	11
35	Mimicking Classâ€…Iâ€‰b Mn₂â€Ribonucleotide Reductase: A Mn^{II}₂ Complex and Its Reaction with Superoxide. Angewandte Chemie - International Edition, 2018, 57, 918-922.	7.2	18
36	High-Resolution Extended X-ray Absorption Fine Structure Analysis Provides Evidence for a Longer FeÂ·Â·Â·Fe Distance in the Q Intermediate of Methane Monooxygenase. Journal of the American Chemical Society, 2018, 140, 16807-16820.	6.6	82

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37	Trapping Iron(III)â€“Oxo Species at the Boundary of the â€œOxo Wallâ€ Insights into the Nature of the Fe(III)â€“O Bond. Journal of the American Chemical Society, 2018, 140, 14391-14400.	6.6	47
38	Detection of a transient Fe^V(O)(OH) species involved in olefin oxidation by a bio-inspired non-haem iron catalyst. Chemical Communications, 2018, 54, 8701-8704.	2.2	22
39	Crystallographic Evidence for a Sterically Induced Ferryl Tilt in a Nonâ€Heme Oxoiron(IV) Complex that Makes it a Better Oxidant. Angewandte Chemie - International Edition, 2018, 57, 9387-9391.	7.2	53
40	Crystallographic Evidence for a Sterically Induced Ferryl Tilt in a Nonâ€Heme Oxoiron(IV) Complex that Makes it a Better Oxidant. Angewandte Chemie, 2018, 130, 9531-9535.	1.6	16
41	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
42	Oxoiron(IV) Tetramethylcyclam Complexes with Axial Carboxylate Ligands: Effect of Tethering the Carboxylate on Reactivity. Inorganic Chemistry, 2017, 56, 3287-3301.	1.9	24
43	Spectroscopic and Reactivity Comparisons of a Pair of bTAML Complexes with Fe^Vâ•O and Fe^{IV}â•O Units. Inorganic Chemistry, 2017, 56, 6352-6361.	1.9	51
44	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
45	Facile and Reversible Formation of Iron(III)â€“Oxoâ€“Cerium(IV) Adducts from Nonheme Oxoiron(IV) Complexes and Cerium(III). Angewandte Chemie - International Edition, 2017, 56, 9091-9095.	7.2	28
46	The Two Faces of Tetramethylcyclam in Iron Chemistry: Distinct Feâ€“Oâ€“M Complexes Derived from [Fe^{IV}(O_{<i>anti</i>/<i>syn</i>})(TMC)]²⁺ Isomers. Inorganic Chemistry, 2017, 56, 518-527.	1.9	14
47	Direct photochemical activation of non-heme Fe(<scp>iv</scp>)î€O complexes. Chemical Communications, 2017, 53, 12357-12360.	2.2	14
48	CmlI <i>N</i>-Oxygenase Catalyzes the Final Three Steps in Chloramphenicol Biosynthesis without Dissociation of Intermediates. Biochemistry, 2017, 56, 4940-4950.	1.2	21
49	Characterization of the Fleeting Hydroxoiron(III) Complex of the Pentadentate TMC-py Ligand. Inorganic Chemistry, 2017, 56, 11129-11140.	1.9	25
50	Hydrogenâ€Atom Transfer Oxidation with H₂O₂ Catalyzed by		

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55	60 years of dioxygen activation. Journal of Biological Inorganic Chemistry, 2017, 22, 171-173.	1.1	30
56	Unprecedented (Î¼-1,1-Peroxo)diferric Structure for the Ambiphilic Orange Peroxo Intermediate of the Nonheme <i>N</i>-Oxygenase CmlI. Journal of the American Chemical Society, 2017, 139, 10472-10485.	6.6	51
57	X-ray absorption spectroscopic characterization of the diferric-peroxo intermediate of human deoxyhypusine hydroxylase in the presence of its substrate eIF5a. Journal of Biological Inorganic Chemistry, 2016, 21, 605-618.	1.1	21
58	Mechanism for Six-Electron Aryl-N-Oxygenation by the Non-Heme Diiron Enzyme CmlI. Journal of the American Chemical Society, 2016, 138, 7411-7421.	6.6	37
59	HFEPR and Computational Studies on the Electronic Structure of a High-Spin Oxidoiron(IV) Complex in Solution. Inorganic Chemistry, 2016, 55, 3933-3945.	1.9	11
60	Spectroscopic and Theoretical Study of Spin-Dependent Electron Transfer in an Iron(III) Superoxo Complex. Inorganic Chemistry, 2016, 55, 5215-5226.	1.9	9
61	A Carboxylate Shift Regulates Dioxygen Activation by the Diiron Nonheme Î²-Hydroxylase CmlA upon Binding of a Substrate-Loaded Nonribosomal Peptide Synthetase. Biochemistry, 2016, 55, 5818-5831.	1.2	21
62	Why metalâ€“oxos react with dihydroanthracene and cyclohexadiene at comparable rates, despite having different Câ€“H bond strengths. A computational study. Chemical Communications, 2016, 52, 10509-10512.	2.2	28
63	Formation of the syn isomer of [Fe^{IV}(O_{anti})(TMC)(NCMe)]²⁺ in the reaction of Lewis acids with the side-on bound peroxo ligand in [Fe^{III}(Î·²-O₂)(TMC)]⁺. Chemical Communications, 2016, 52, 8146-8148.	2.2	8
64	Nuclear Resonance Vibrational Spectroscopic Definition of Peroxy Intermediates in Nonheme Iron Sites. Journal of the American Chemical Society, 2016, 138, 14294-14302.	6.6	6
65	The Amazing High-Valent Nonheme Iron-Oxo Landscape. Bulletin of Japan Society of Coordination Chemistry, 2016, 67, 10-18.	0.1	13
66	Oxygen Atom Exchange between H₂O and Non-Heme Oxoiron(IV) Complexes: Ligand Dependence and Mechanism. Inorganic Chemistry, 2016, 55, 5818-5827.	1.9	40
67	Modeling Non-Heme Iron Halogenases: High-Spin Oxoiron(IV)â€“Halide Complexes That Halogenate Câ€“H Bonds. Journal of the American Chemical Society, 2016, 138, 2484-2487.	6.6	80
68	Conversion of Aldehyde to Alkane by a Peroxoiron(III) Complex: A Functional Model for the Cyanobacterial Aldehyde-Deformylating Oxygenase. Journal of the American Chemical Society, 2015, 137, 7686-7691.	6.6	33
69	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
70	An Unusual Peroxo Intermediate of the Arylamine Oxygenase of the Chloramphenicol Biosynthetic Pathway. Journal of the American Chemical Society, 2015, 137, 1608-1617.	6.6	71
71	Evidence for an oxygen evolving ironâ€“oxoâ€“cerium intermediate in iron-catalysed water oxidation. Nature Communications, 2015, 6, 5865.	5.8	136
72	Magnetic circular dichroism and computational study of mononuclear and dinuclear iron(<scp>iv</scp>) complexes. Chemical Science, 2015, 6, 2909-2921.	3.7	27

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73	Spectroscopic Identification of an Fe^{III} Center, not Fe^{IV}, in the Crystalline Scâ€“Oâ€“Fe Adduct Derived from [Fe^{IV}(O)(TMC)]²⁺. Journal of the American Chemical Society, 2015, 137, 3478-3481.	6.6	60
74	Characterization of a heterobimetallic nonheme Fe(<scp>iii</scp>)â€“Oâ€“Cr(<scp>iii</scp>) species formed by O₂ activation. Chemical Communications, 2015, 51, 14326-14329.	2.2	17
75	Oxoiron(IV) Complex of the Ethylene-Bridged Dialkylcyclam Ligand Me₂EBC. Inorganic Chemistry, 2015, 54, 7828-7839.	1.9	28
76	Reactivity and O₂ Formation by Mn(IV)- and Mn(V)-Hydroxo Species Stabilized within a Polyfluoroxometalate Framework. Journal of the American Chemical Society, 2015, 137, 8738-8748.	6.6	33
77	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
78	Caught! Crystal trapping of a side-on peroxo bound to Cr(<scp>iv</scp>). Chemical Communications, 2015, 51, 2802-2805.	2.2	20
79	Câ€“H Bond Cleavage by Bioinspired Nonheme Oxoiron(IV) Complexes, Including Hydroxylation of <i>n</i>-Butane. Inorganic Chemistry, 2015, 54, 5053-5064.	1.9	48
80	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
81	Upside Down! Crystallographic and Spectroscopic Characterization of an [Fe^{IV}(O_{syn})(TMC)]²⁺ Complex. Inorganic Chemistry, 2015, 54, 11055-11057.	1.9	33
82	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
83	Identification of a low-spin acylperoxoiron(III) intermediate in bio-inspired non-heme iron-catalysed oxidations. Nature Communications, 2014, 5, 3046.	5.8	86
84	Triggering the Generation of an Iron(IV)-Oxo Compound and Its Reactivity toward Sulfides by Ru^{II} Photocatalysis. Journal of the American Chemical Society, 2014, 136, 4624-4633.	6.6	72
85	A two-electron-shell game: intermediates of the extradiol-cleaving catechol dioxygenases. Journal of Biological Inorganic Chemistry, 2014, 19, 491-504.	1.1	41
86	H₂O₂activation with biomimetic non-haem iron complexes and AcOH: connecting the g = 2.7 EPR signal with a visible chromophore. Chemical Communications, 2014, 50, 645-648.	2.2	51
87	An ultra-stable oxoiron(<scp>iv</scp>) complex and its blue conjugate base. Chemical Science, 2014, 5, 1204-1215.	3.7	52
88	A chameleon catalyst for nonheme iron-promoted olefin oxidation. Chemical Communications, 2014, 50, 13777-13780.	2.2	34
89	Spectroscopic and Theoretical Investigation of a Complex with an [Oâ•FeIVâ€“Oâ€“FeIVâ•O] Core Related to Methane Monooxygenase Intermediate Q. Journal of the American Chemical Society, 2014, 136, 1545-1558.	6.6	35
90	Characterization of a Paramagnetic Mononuclear Nonheme Iron-Superoxo Complex. Journal of the American Chemical Society, 2014, 136, 10846-10849.	6.6	97

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91	Introduction to special section â€œTopics on Metal Cluster Assembly in Enzymesâ€ Journal of Biological Inorganic Chemistry, 2014, 19, 729-729.	1.1	0
92	Cyclohexene as a substrate probe for the nature of the high-valent iron-oxo oxidant in Fe(TPA)-catalyzed oxidations. New Journal of Chemistry, 2013, 37, 3411.	1.4	31
93	An Iron(II) [1,3â€bis(2â€²â€pyridylimino)isoindoline] Complex as a Catalyst for Substrate Oxidation with H₂O₂ â€“ Evidence for a Transient Peroxidodiiron(III) Species. European Journal of Inorganic Chemistry, 2013, 2013, 3858-3866.	1.0	41
94	NO binding to Mn-substituted homoprotocatechuate 2,3-dioxygenase: relationship to O2 reactivity. Journal of Biological Inorganic Chemistry, 2013, 18, 717-728.	1.1	7
95	Nonheme oxoiron(<scp>iv</scp>) complexes of pentadentate N5 ligands: spectroscopy, electrochemistry, and oxidative reactivity. Chemical Science, 2013, 4, 282-291.	3.7	144
96	Oxidation of water by a nonhaem diiron(iv) complex via proton-coupled electron transfer. Chemical Communications, 2013, 49, 10682.	2.2	29
97	High-valent nonheme iron-oxo complexes: Synthesis, structure, and spectroscopy. Coordination Chemistry Reviews, 2013, 257, 414-428.	9.5	464
98	Hydrogen-Bonding Effects on the Reactivity of [Xâ€“FeIIIâ€“Oâ€“FeIVâ•O] (X = OH, F) Complexes toward Câ€“H Bond Cleavage. Inorganic Chemistry, 2013, 52, 3976-3984.	1.9	35
99	The Mechanism of Stereospecific Cï£¿H Oxidation by Fe(Pytacn) Complexes: Bioinspired Nonâ€Heme Iron Catalysts Containing <i>cis</i>â€Labile Exchangeable Sites. Chemistry - A European Journal, 2013, 19, 6724-6738.	1.7	88
100	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
101	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
102	Factors Affecting the Carboxylate Shift Upon Formation of Nonheme Diiron-O₂ Adducts. Inorganic Chemistry, 2013, 52, 2627-2636.	1.9	15
103	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
104	Nuclear resonance vibrational spectroscopic and computational study of high-valent diiron complexes relevant to enzyme intermediates. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6275-6280.	3.3	12
105	High-Valent Nonheme Iron Oxidants in Biology: Lessons from Synthetic Fe=O Complexes. Bulletin of Japan Society of Coordination Chemistry, 2013, 62, 30-37.	0.1	3
106	A mononuclear carboxylate-rich oxoiron(iv) complex: a structural and functional mimic of TauD intermediate â€˜Jâ€™. Chemical Science, 2012, 3, 1680.	3.7	40
107	Structural, EPR, and MÃ¶ssbauer Characterization of (Î¼-Alkoxo)(Î¼-Carboxylato)Diiron(II,III) Model Complexes for the Active Sites of Mixed-Valent Diiron Enzymes. Inorganic Chemistry, 2012, 51, 2917-2929.	1.9	23
108	Characterization of an O₂ Adduct of an Active Cobalt-Substituted Extradiol-Cleaving Catechol Dioxygenase. Journal of the American Chemical Society, 2012, 134, 796-799.	6.6	42

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109	Evaluating the Identity and Diiron Core Transformations of a (Î¼-Oxo)diiron(III) Complex Supported by Electron-Rich Tris(pyridyl-2-methyl)amine Ligands. Inorganic Chemistry, 2012, 51, 2393-2402.	1.9	42
110	Protonation of a Peroxodiiron(III) Complex and Conversion to a Diiron(III/IV) Intermediate: Implications for Proton-Assisted Oâ€“O Bond Cleavage in Nonheme Diiron Enzymes. Inorganic Chemistry, 2012, 51, 10417-10426.	1.9	47
111	Ï€-Frontier molecular orbitals in <i>S</i> Â=Â2 ferryl species and elucidation of their contributions to reactivity. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14326-14331.	3.3	85
112	Characterization of a Thiolato Iron(III) Peroxy Dianion Complex. Angewandte Chemie - International Edition, 2012, 51, 9132-9136.	7.2	16
113	¹H-ENDOR Evidence for a Hydrogen-Bonding Interaction That Modulates the Reactivity of a Nonheme Fe^{IV}â•O Unit. Inorganic Chemistry, 2012, 51, 10080-10082.	1.9	10
114	One-electron oxidation of an oxoiron(IV) complex to form an [Oâ•Fe ^V â•NR] ⁺ center. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11933-11938.	3.3	91
115	Intramolecular Gasâ€Phase Reactions of Synthetic Nonheme Oxoiron(IV) Ions: Proximity and Spinâ€State Reactivity Rules. Chemistry - A European Journal, 2012, 18, 11747-11760.	1.7	15
116	Editorial overview. Current Opinion in Chemical Biology, 2012, 16, 1-2.	2.8	35
117	Prediction of high-valent iron K-edge absorption spectra by time-dependent Density Functional Theory. Dalton Transactions, 2011, 40, 11070.	1.6	90
118	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
119	Theoretical Study of the Mechanism of Oxoiron(IV) Formation from H₂O₂ and a Nonheme Iron(II) Complex: Oâ€“O Cleavage Involving Proton-Coupled Electron Transfer. Inorganic Chemistry, 2011, 50, 6637-6648.	1.9	65
120	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
121	Characterization of a Tricationic Trigonal Bipyramidal Iron(IV) Cyanide Complex, with a Very High Reduction Potential, and Its Iron(II) and Iron(III) Congeners. Inorganic Chemistry, 2011, 50, 2885-2896.	1.9	27
122	Active-Site Structure of a Î²-Hydroxylase in Antibiotic Biosynthesis. Journal of the American Chemical Society, 2011, 133, 6938-6941.	6.6	21
123	Iron-Catalyzed Olefin Epoxidation and cis-Dihydroxylation by Tetraalkylcyclam Complexes: the Importance of cis-Labile Sites. ACS Catalysis, 2011, 1, 1035-1042.	5.5	79
124	Substrate-Triggered Activation of a Synthetic [Fe₂(Î¼-O)₂] Diamond Core for Câ€“H Bond Cleavage. Journal of the American Chemical Society, 2011, 133, 16657-16667.	6.6	51
125	Elusive iron(V) species identified. Nature Chemistry, 2011, 3, 761-762.	6.6	27
126	A hyperactive cobalt-substituted extradiol-cleaving catechol dioxygenase. Journal of Biological Inorganic Chemistry, 2011, 16, 341-355.	1.1	65

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127	In vivo self-hydroxylation of an iron-substituted manganese-dependent extradiol cleaving catechol dioxygenase. Journal of Biological Inorganic Chemistry, 2011, 16, 589-597.	1.1	4
128	Nuclear Resonance Vibrational Spectroscopy on the Fe^{IV}ï£¾O <i>S</i>=2 Nonâ€Heme Site in TMG₃tren: Experimentally Calibrated Insights into Reactivity. Angewandte Chemie - International Edition, 2011, 50, 3215-3218.	7.2	62
129	Oxidative Decarboxylation of Benzilic Acid by a Biomimetic Iron(II) Complex: Evidence for an Iron(IV)â€“Oxoâ€“Hydroxo Oxidant from O₂. Angewandte Chemie - International Edition, 2011, 50, 11129-11132.	7.2	71
130	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
131	Oxygen Activation at Mononuclear Nonheme Iron Centers: A Superoxo Perspective. Inorganic Chemistry, 2010, 49, 3618-3628.	1.9	118
132	Spectroscopic and metal-binding properties of DF3: an artificial protein able to accommodate different metal ions. Journal of Biological Inorganic Chemistry, 2010, 15, 717-728.	1.1	29
133	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
134	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
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