

J Martin Bollinger Jr

List of Publications by Year in descending order

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127
papers

10,884
citations

23567

58
h-index

31849

101
g-index

131
all docs

131
docs citations

131
times ranked

4751
citing authors

#	ARTICLE	IF	CITATIONS
1	A mixed-valent Fe(II)Fe(III) species converts cysteine to an oxazolone/thioamide pair in methanobactin biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2123566119.	7.1	14
2	Substrate-Triggered $\frac{1}{4}$ -Peroxodiiron(III) Intermediate in the 4-Chloro-Lysine-Fragmenting Heme-Oxygenase-like Diiron Oxidase (HDO) BesC: Substrate Dissociation from, and C4 Targeting by, the Intermediate. Biochemistry, 2022, 61, 689-702.	2.5	13
3	Synthesis of 6,6- and 7,7-difluoro-1-acetamidopyrrolizidines and Their Oxidation Catalyzed by the Nonheme Fe Oxygenase LolO. ChemBioChem, 2022, 23, .	2.6	3
4	Use of Noncanonical Tyrosine Analogues to Probe Control of Radical Intermediates during Endoperoxide Installation by Verruculogen Synthase (FtmOx1). ACS Catalysis, 2022, 12, 6968-6979.	11.2	12
5	Structure and assembly of the diiron cofactor in the heme-oxygenase-like domain of the <i>N</i> -nitroso- <i>N</i> -producing enzyme SznF. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	31
6	An Iron(IV)-Oxo Intermediate Initiating L-Arginine Oxidation but Not Ethylene Production by the 2-Oxoglutarate-Dependent Oxygenase, Ethylene-Forming Enzyme. Journal of the American Chemical Society, 2021, 143, 2293-2303.	13.7	18
7	Fe-S cofactors in the SARS-CoV-2 RNA-dependent RNA polymerase are potential antiviral targets. Science, 2021, 373, 236-241.	12.6	71
8	Hybrid radical-polar pathway for excision of ethylene from 2-oxoglutarate by an iron oxygenase. Science, 2021, 373, 1489-1493.	12.6	11
9	High-resolution iron X-ray absorption spectroscopic and computational studies of non-heme diiron peroxo intermediates. Journal of Inorganic Biochemistry, 2020, 203, 110877.	3.5	19
10	Nuclear Resonance Vibrational Spectroscopic Definition of the Facial Triad Fe ^{IV} -O Intermediate in Taurine Dioxygenase: Evaluation of Structural Contributions to Hydrogen Atom Abstraction. Journal of the American Chemical Society, 2020, 142, 18886-18896.	13.7	23
11	Heme biosynthesis depends on previously unrecognized acquisition of iron-sulfur cofactors in human amino-levulinic acid dehydratase. Nature Communications, 2020, 11, 6310.	12.8	32
12	Lifetimes of the Aglycone Substrates of Specifier Proteins, the Autonomous Iron Enzymes That Dictate the Products of the Glucosinolate-Myrosinase Defense System in Brassica Plants. Biochemistry, 2020, 59, 2432-2441.	2.5	12
13	A Peroxodiiron(III/III) Intermediate Mediating Both <i>N</i> -Hydroxylation Steps in Biosynthesis of the <i>N</i> -Nitroso- <i>N</i> -Pharmacophore of Streptozotocin by the Multi-domain Metalloenzyme SznF. Journal of the American Chemical Society, 2020, 142, 11818-11828.	13.7	35
14	Emerging Structural and Functional Diversity in Proteins With Dioxygen-Reactive Dinuclear Transition Metal Cofactors. , 2020, , 215-250.		23
15	Substrate-Triggered Formation of a Peroxo-Fe ₂ (III/III) Intermediate during Fatty Acid Decarboxylation by UndA. Journal of the American Chemical Society, 2019, 141, 14510-14514.	13.7	42
16	Evidence for Modulation of Oxygen Rebound Rate in Control of Outcome by Iron(II)- and 2-Oxoglutarate-Dependent Oxygenases. Journal of the American Chemical Society, 2019, 141, 15153-15165.	13.7	28
17	Structure of a Ferryl Mimic in the Archetypal Iron(II)- and 2-(Oxo)-glutarate-Dependent Dioxygenase, TauD. Biochemistry, 2019, 58, 4218-4223.	2.5	22
18	Hydrogen Donation but not Abstraction by a Tyrosine (Y68) during Endoperoxide Installation by Verruculogen Synthase (FtmOx1). Journal of the American Chemical Society, 2019, 141, 9964-9979.	13.7	35

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19	Molecular basis for enantioselective herbicide degradation imparted by aryloxyalkanoate dioxygenases in transgenic plants. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13299-13304.	7.1	17
20	A New Microbial Pathway for Organophosphonate Degradation Catalyzed by Two Previously Misannotated Non-Heme-Iron Oxygenases. Biochemistry, 2019, 58, 1627-1647.	2.5	28
21	Steric Enforcement of <i>cis</i> -Epoxide Formation in the Radical O-Coupling Reaction by Which (<i>S</i>)-2-Hydroxypropylphosphonate Epoxidase (HppE) Produces Fosfomycin. Journal of the American Chemical Society, 2019, 141, 20397-20406.	13.7	12
22	Two Distinct Mechanisms for C Desaturation by Iron(II)- and 2-(Oxo)glutarate-Dependent Oxygenases: Importance of H-Heteroatom Assistance. Journal of the American Chemical Society, 2018, 140, 7116-7126.	13.7	98
23	Structural Basis for Superoxide Activation of <i>Flavobacterium johnsoniae</i> Class I Ribonucleotide Reductase and for Radical Initiation by Its Dimanganese Cofactor. Biochemistry, 2018, 57, 2679-2693.	2.5	38
24	Installation of the Ether Bridge of Lolines by the Iron- and 2-Oxoglutarate-Dependent Oxygenase, LolO: Regio- and Stereochemistry of Sequential Hydroxylation and Oxacyclization Reactions. Biochemistry, 2018, 57, 2074-2083.	2.5	33
25	The biosynthesis of methanobactin. Science, 2018, 359, 1411-1416.	12.6	101
26	Two-Color Valence-Core X-ray Emission Spectroscopy Tracks Cofactor Protonation State in a Class I Ribonucleotide Reductase. Angewandte Chemie, 2018, 130, 12936-12940.	2.0	1
27	Metal-free class Ie ribonucleotide reductase from pathogens initiates catalysis with a tyrosine-derived dihydroxyphenylalanine radical. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10022-10027.	7.1	49
28	H-Amine Desaturation of <i>D</i> -Arginine by the Iron(II)- and 2-(Oxo)glutarate-Dependent <i>L</i> -Arginine 3-Hydroxylase, VioC. Biochemistry, 2018, 57, 6479-6488.	2.5	30
29	Two-Color Valence-Core X-ray Emission Spectroscopy Tracks Cofactor Protonation State in a Class I Ribonucleotide Reductase. Angewandte Chemie - International Edition, 2018, 57, 12754-12758.	13.8	15
30	Evidence for a Di- μ -oxo Diamond Core in the Mn(IV)/Fe(IV) Activation Intermediate of Ribonucleotide Reductase from <i>Chlamydia trachomatis</i> . Journal of the American Chemical Society, 2017, 139, 1950-1957.	13.7	28
31	O-H Activation by an Unexpected Ferryl Intermediate during Catalysis by 2-Hydroxyethylphosphonate Dioxygenase. Journal of the American Chemical Society, 2017, 139, 2045-2052.	13.7	31
32	Drop-on-demand sample delivery for studying biocatalysts in action at X-ray free-electron lasers. Nature Methods, 2017, 14, 443-449.	19.0	150
33	Peroxide Activation for Electrophilic Reactivity by the Binuclear Non-heme Iron Enzyme AurF. Journal of the American Chemical Society, 2017, 139, 7062-7070.	13.7	55
34	Vanadyl as a Stable Structural Mimic of Reactive Ferryl Intermediates in Mononuclear Nonheme-Iron Enzymes. Inorganic Chemistry, 2017, 56, 13382-13389.	4.0	19
35	Visualizing the Reaction Cycle in an Iron(II)- and 2-(Oxo)-glutarate-Dependent Hydroxylase. Journal of the American Chemical Society, 2017, 139, 13830-13836.	13.7	97
36	Electronic Structure of the Ferryl Intermediate in the H-Ketoglutarate Dependent Non-Heme Iron Halogenase SyrB2: Contributions to H Atom Abstraction Reactivity. Journal of the American Chemical Society, 2016, 138, 5110-5122.	13.7	68

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37	Spectroscopic Evidence for the Two C-H-Cleaving Intermediates of <i>Aspergillus nidulans</i> Isopenicillin N Synthase. <i>Journal of the American Chemical Society</i> , 2016, 138, 8862-8874.	13.7	99
38	Direct Measurement of the Radical Translocation Distance in the Class I Ribonucleotide Reductase from <i>Chlamydia trachomatis</i> . <i>Journal of Physical Chemistry B</i> , 2015, 119, 13777-13784.	2.6	10
39	Efficient Delivery of Long-Chain Fatty Aldehydes from the <i>Nostoc punctiforme</i> Acyl Carrier Protein Reductase to Its Cognate Aldehyde-Deformylating Oxygenase. <i>Biochemistry</i> , 2015, 54, 1006-1015.	2.5	35
40	Experimental Correlation of Substrate Position with Reaction Outcome in the Aliphatic Halogenase, SyrB2. <i>Journal of the American Chemical Society</i> , 2015, 137, 6912-6919.	13.7	78
41	Assembly of the unusual oxacycles in the orthosomycin antibiotics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11989-11990.	7.1	8
42	Rapid Reduction of the Diferric-Peroxyhemiacetal Intermediate in Aldehyde-Deformylating Oxygenase by a Cyanobacterial Ferredoxin: Evidence for a Free-Radical Mechanism. <i>Journal of the American Chemical Society</i> , 2015, 137, 11695-11709.	13.7	61
43	Mechanisms of 2-Oxoglutarate-Dependent Oxygenases: The Hydroxylation Paradigm and Beyond. <i>2-Oxoglutarate-Dependent Oxygenases</i> , 2015, , 95-122.	0.8	69
44	Mechanism of the C5 Stereoinversion Reaction in the Biosynthesis of Carbapenem Antibiotics. <i>Science</i> , 2014, 343, 1140-1144.	12.6	122
45	Direct nitration and azidation of aliphatic carbons by an iron-dependent halogenase. <i>Nature Chemical Biology</i> , 2014, 10, 209-215.	8.0	113
46	Elucidation of the Fe(IV)=O intermediate in the catalytic cycle of the halogenase SyrB2. <i>Nature</i> , 2013, 499, 320-323.	27.8	192
47	Structural Basis for Assembly of the Mn ^{IV} /Fe ^{III} Cofactor in the Class Ic Ribonucleotide Reductase from <i>Chlamydia trachomatis</i> . <i>Biochemistry</i> , 2013, 52, 6424-6436.	2.5	35
48	Circular Dichroism, Magnetic Circular Dichroism, and Variable Temperature Variable Field Magnetic Circular Dichroism Studies of Biferrous and Mixed-Valent <i>myo</i> -Inositol Oxygenase: Insights into Substrate Activation of O ₂ Reactivity. <i>Journal of the American Chemical Society</i> , 2013, 135, 15851-15863.	13.7	8
49	Organophosphonate-degrading PhnZ reveals an emerging family of HD domain mixed-valent diiron oxygenases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18874-18879.	7.1	48
50	Novel approaches for the accumulation of oxygenated intermediates to multi-millimolar concentrations. <i>Coordination Chemistry Reviews</i> , 2013, 257, 234-243.	18.8	15
51	Function of the Diiron Cluster of <i>Escherichia coli</i> Class Ia Ribonucleotide Reductase in Proton-Coupled Electron Transfer. <i>Journal of the American Chemical Society</i> , 2013, 135, 8585-8593.	13.7	55
52	Substrate-Triggered Addition of Dioxygen to the Diferrous Cofactor of Aldehyde-Deformylating Oxygenase to Form a Diferric-Peroxide Intermediate. <i>Journal of the American Chemical Society</i> , 2013, 135, 15801-15812.	13.7	68
53	Geometric and Electronic Structure of the Mn(IV)Fe(III) Cofactor in Class Ic Ribonucleotide Reductase: Correlation to the Class Ia Binuclear Non-Heme Iron Enzyme. <i>Journal of the American Chemical Society</i> , 2013, 135, 17573-17584.	13.7	34
54	Evidence that the Fosfomycin-Producing Epoxidase, HppE, Is a Non-Heme-Iron Peroxidase. <i>Science</i> , 2013, 342, 991-995.	12.6	69

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55	O ₂ -Evolving Chlorite Dismutase as a Tool for Studying O ₂ -Utilizing Enzymes. <i>Biochemistry</i> , 2012, 51, 1607-1616.	2.5	39
56	Evidence That the β Subunit of <i>Chlamydia trachomatis</i> Ribonucleotide Reductase Is Active with the Manganese Ion of Its Manganese(IV)/Iron(III) Cofactor in Site 1. <i>Journal of the American Chemical Society</i> , 2012, 134, 2520-2523.	13.7	42
57	Radical-Translocation Intermediates and Hurdling of Pathway Defects in "Super-oxidized" (Mn ^{IV} /Fe ^{IV}) <i>Chlamydia trachomatis</i> Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2012, 134, 20498-20506.	13.7	7
58	Evidence for Only Oxygenative Cleavage of Aldehydes to Alk(a)enes and Formate by Cyanobacterial Aldehyde Decarboxylases. <i>Biochemistry</i> , 2012, 51, 7908-7916.	2.5	130
59	Electronic Structure Analysis of the Oxygen-Activation Mechanism by Fe ^{II} and β -Ketoglutarate (β -KG)-Dependent Dioxygenases. <i>Chemistry - A European Journal</i> , 2012, 18, 6555-6567.	3.3	89
60	Conversion of Fatty Aldehydes to Alk(a)enes and Formate by a Cyanobacterial Aldehyde Decarboxylase: Cryptic Redox by an Unusual Dimetal Oxygenase. <i>Journal of the American Chemical Society</i> , 2011, 133, 6158-6161.	13.7	120
61	Detection of Formate, Rather than Carbon Monoxide, As the Stoichiometric Coproduct in Conversion of Fatty Aldehydes to Alkanes by a Cyanobacterial Aldehyde Decarboxylase. <i>Journal of the American Chemical Society</i> , 2011, 133, 3316-3319.	13.7	136
62	Evidence for a High-Spin Fe(IV) Species in the Catalytic Cycle of a Bacterial Phenylalanine Hydroxylase. <i>Biochemistry</i> , 2011, 50, 1928-1933.	2.5	77
63	Cyanobacterial alkane biosynthesis further expands the catalytic repertoire of the ferritin-like "di-iron-carboxylate"™ proteins. <i>Current Opinion in Chemical Biology</i> , 2011, 15, 291-303.	6.1	81
64	Substrate activation by iron superoxo intermediates. <i>Current Opinion in Structural Biology</i> , 2010, 20, 673-683.	5.7	107
65	Evidence for the slow reaction of hypoxia-inducible factor prolyl hydroxylase ² with oxygen. <i>FEBS Journal</i> , 2010, 277, 4089-4099.	4.7	75
66	Getting the metal right. <i>Nature</i> , 2010, 465, 40-41.	27.8	25
67	Remote Enzyme Microsurgery. <i>Science</i> , 2010, 327, 1337-1338.	12.6	3
68	Four-electron oxidation of <i>p</i> -hydroxylaminobenzoate to <i>p</i> -nitrobenzoate by a peroxodiferric complex in AurF from <i>Streptomyces thioluteus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15722-15727.	7.1	70
69	Cryoreduction of the NO-Adduct of Taurine: β -Ketoglutarate Dioxygenase (TauD) Yields an Elusive {FeNO} ⁸ Species. <i>Journal of the American Chemical Society</i> , 2010, 132, 4739-4751.	13.7	66
70	Two Distinct Mechanisms of Inactivation of the Class Ic Ribonucleotide Reductase from <i>Chlamydia trachomatis</i> by Hydroxyurea: Implications for the Protein Gating of Intersubunit Electron Transfer. <i>Biochemistry</i> , 2010, 49, 5340-5349.	2.5	26
71	The Nonribosomal Peptide Synthetase Enzyme DdaD Tethers <i>N</i> ² -Fumaramoyl- <i>L</i> -2,3-diaminopropionate for Fe(II)/ β -Ketoglutarate-Dependent Epoxidation by DdaC during Dapdiamide Antibiotic Biosynthesis. <i>Journal of the American Chemical Society</i> , 2010, 132, 15773-15781.	13.7	35
72	Substrate positioning controls the partition between halogenation and hydroxylation in the aliphatic halogenase, SyrB2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 17723-17728.	7.1	206

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73	Freeze-quench ^{57}Fe -Mössbauer spectroscopy: trapping reactive intermediates. <i>Photosynthesis Research</i> , 2009, 102, 295-304.	2.9	12
74	Frontiers in enzymatic C-H bond activation. <i>Current Opinion in Chemical Biology</i> , 2009, 13, 51-57.	6.1	27
75	A Long-Lived, Substrate-Hydroxylating Peroxodiiron(III/III) Intermediate in the Amine Oxygenase, AurF, from <i>Streptomyces thioluteus</i> . <i>Journal of the American Chemical Society</i> , 2009, 131, 13608-13609.	13.7	81
76	Substrate-Triggered Formation and Remarkable Stability of the C-H Bond-Cleaving Chloroferryl Intermediate in the Aliphatic Halogenase, SyrB2. <i>Biochemistry</i> , 2009, 48, 4331-4343.	2.5	212
77	myo-Inositol oxygenase: a radical new pathway for O_2 and C-H activation at a nonheme diiron cluster. <i>Dalton Transactions</i> , 2009, , 905-914.	3.3	73
78	The manganese(IV)/iron(III) cofactor of <i>Chlamydia trachomatis</i> ribonucleotide reductase: structure, assembly, radical initiation, and evolution. <i>Current Opinion in Structural Biology</i> , 2008, 18, 650-657.	5.7	59
79	Structural Analysis of the Mn(IV)/Fe(III) Cofactor of <i>Chlamydia trachomatis</i> Ribonucleotide Reductase by Extended X-ray Absorption Fine Structure Spectroscopy and Density Functional Theory Calculations. <i>Journal of the American Chemical Society</i> , 2008, 130, 15022-15027.	13.7	55
80	Branched Activation- and Catalysis-Specific Pathways for Electron Relay to the Manganese/Iron Cofactor in Ribonucleotide Reductase from <i>Chlamydia trachomatis</i> . <i>Biochemistry</i> , 2008, 47, 8477-8484.	2.5	47
81	Rapid and Quantitative Activation of <i>Chlamydia trachomatis</i> Ribonucleotide Reductase by Hydrogen Peroxide. <i>Biochemistry</i> , 2008, 47, 4477-4483.	2.5	38
82	Formation and Function of the Manganese(IV)/Iron(III) Cofactor in <i>Chlamydia trachomatis</i> Ribonucleotide Reductase. <i>Biochemistry</i> , 2008, 47, 13736-13744.	2.5	52
83	Electron Relay in Proteins. <i>Science</i> , 2008, 320, 1730-1731.	12.6	44
84	A Manganese(IV)/Iron(IV) Intermediate in Assembly of the Manganese(IV)/Iron(III) Cofactor of <i>Chlamydia trachomatis</i> Ribonucleotide Reductase. <i>Biochemistry</i> , 2007, 46, 8709-8716.	2.5	78
85	Spectroscopic and Computational Evaluation of the Structure of the High-Spin Fe(IV)-Oxo Intermediates in Taurine: \pm -Ketoglutarate Dioxygenase from <i>Escherichia coli</i> and Its His99Ala Ligand Variant. <i>Journal of the American Chemical Society</i> , 2007, 129, 6168-6179.	13.7	191
86	Addition of Oxygen to the Diiron(II/II) Cluster Is the Slowest Step in Formation of the Tyrosyl Radical in the W103Y Variant of Ribonucleotide Reductase Protein R2 from Mouse. <i>Biochemistry</i> , 2007, 46, 13067-13073.	2.5	5
87	Direct Spectroscopic Evidence for a High-Spin Fe(IV) Intermediate in Tyrosine Hydroxylase. <i>Journal of the American Chemical Society</i> , 2007, 129, 11334-11335.	13.7	164
88	Spectroscopic Evidence for a High-Spin Br-Fe(IV)-Oxo Intermediate in the \pm -Ketoglutarate-Dependent Halogenase CytC3 from <i>Streptomyces</i> . <i>Journal of the American Chemical Society</i> , 2007, 129, 13408-13409.	13.7	140
89	($\frac{1}{4}$ -1,2-Peroxo)diiron(III/III) Complex as a Precursor to the Diiron(III/IV) Intermediate X in the Assembly of the Iron-Radical Cofactor of Ribonucleotide Reductase from Mouse. <i>Biochemistry</i> , 2007, 46, 1925-1932.	2.5	59
90	The Active Form of <i>Chlamydia trachomatis</i> Ribonucleotide Reductase R2 Protein Contains a Heterodinuclear Mn(IV)/Fe(III) Cluster with $S = 1$ Ground State. <i>Journal of the American Chemical Society</i> , 2007, 129, 7504-7505.	13.7	57

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91	Spectroscopic and Electronic Structure Studies of IntermediateXin Ribonucleotide Reductase R2 and Two Variants:Â A Description of the FeIV-Oxo Bond in the FeIIIâ”Oâ”FeIVDimer. Journal of the American Chemical Society, 2007, 129, 9049-9065.	13.7	71
92	CD and MCD of CytC3 and Taurine Dioxygenase:â€ Role of the Facial Triad in Î±-KG-Dependent Oxygenases. Journal of the American Chemical Society, 2007, 129, 14224-14231.	13.7	86
93	A Manganese(IV)/Iron(III) Cofactor in Chlamydia trachomatis Ribonucleotide Reductase. Science, 2007, 316, 1188-1191.	12.6	186
94	Non-Heme Fe(IV)â€“Oxo Intermediates. Accounts of Chemical Research, 2007, 40, 484-492.	15.6	866
95	Enzymatic Câ€“H activation by metalâ€“superoxo intermediates. Current Opinion in Chemical Biology, 2007, 11, 151-158.	6.1	140
96	Two interconverting Fe(IV) intermediates in aliphatic chlorination by the halogenase CytC3. Nature Chemical Biology, 2007, 3, 113-116.	8.0	305
97	Oxygen Activation by a Mixed-Valent, Diiron(II/III) Cluster in the Glycol Cleavage Reaction Catalyzed by myo-Inositol Oxygenase. Biochemistry, 2006, 45, 5402-5412.	2.5	52
98	Cation Mediation of Radical Transfer between Trp48 and Tyr356 during O2 Activation by Protein R2 of Escherichia coli Ribonucleotide Reductase:â€ Relevance to R1â”R2 Radical Transfer in Nucleotide Reduction?. Biochemistry, 2006, 45, 8823-8830.	2.5	15
99	Demonstration by2H ENDOR Spectroscopy thatmyo-Inositol Binds via an Alkoxide Bridge to the Mixed-Valent Diiron Center ofmyo-Inositol Oxygenase. Journal of the American Chemical Society, 2006, 128, 10374-10375.	13.7	16
100	A Coupled Dinuclear Iron Cluster that Is Perturbed by Substrate Binding in myo-Inositol Oxygenase. Biochemistry, 2006, 45, 5393-5401.	2.5	58
101	Stalking intermediates in oxygen activation by iron enzymes: Motivation and method. Journal of Inorganic Biochemistry, 2006, 100, 586-605.	3.5	131
102	Direct spectroscopic detection of a C-H-cleaving high-spin Fe(IV) complex in a prolyl-4-hydroxylase. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14738-14743.	7.1	289
103	Evidence for C-H cleavage by an iron-superoxide complex in the glycol cleavage reaction catalyzed by myo-inositol oxygenase. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6130-6135.	7.1	111
104	Mechanism of Taurine: Î±-Ketoglutarate Dioxygenase (TauD) from Escherichia coli. European Journal of Inorganic Chemistry, 2005, 2005, 4245-4254.	2.0	178
105	Kinetic Dissection of the Catalytic Mechanism of Taurine:Î±-Ketoglutarate Dioxygenase (TauD) from Escherichia coli. Biochemistry, 2005, 44, 8138-8147.	2.5	152
106	Rapid Freeze-Quench57Fe MÃ¶ssbauer Spectroscopy:Â Monitoring Changes of an Iron-Containing Active Site during a Biochemical Reaction. Inorganic Chemistry, 2005, 44, 742-757.	4.0	126
107	Mediation by Indole Analogues of Electron Transfer during Oxygen Activation in Variants ofEscherichia coliRibonucleotide Reductase R2 Lacking the Electron-Shuttling Tryptophan 48â€. Biochemistry, 2004, 43, 5943-5952.	2.5	18
108	Use of a Chemical Trigger for Electron Transfer to Characterize a Precursor to ClusterXin Assembly of the Iron-Radical Cofactor ofEscherichia coliRibonucleotide Reductaseâ€. Biochemistry, 2004, 43, 5953-5964.	2.5	38

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109	Nature of the Peroxo Intermediate of the W48F/D84E Ribonucleotide Reductase Variant: Implications for O ₂ Activation by Binuclear Non-Heme Iron Enzymes. <i>Journal of the American Chemical Society</i> , 2004, 126, 8842-8855.	13.7	85
110	EXAFS Spectroscopic Evidence for an Fe ^{IV} •O Unit in the Fe(IV) Intermediate Observed during Oxygen Activation by Taurine:α-Ketoglutarate Dioxygenase. <i>Journal of the American Chemical Society</i> , 2004, 126, 8108-8109.	13.7	282
111	Variable Coordination Geometries at the Diiron(II) Active Site of Ribonucleotide Reductase R2. <i>Journal of the American Chemical Society</i> , 2003, 125, 15822-15830.	13.7	54
112	Rapid-Freeze-Quench Magnetic Circular Dichroism of Intermediate X in Ribonucleotide Reductase: A New Structural Insight. <i>Journal of the American Chemical Society</i> , 2003, 125, 11200-11201.	13.7	47
113	Structural Characterization of the Peroxodiiron(III) Intermediate Generated during Oxygen Activation by the W48A/D84E Variant of Ribonucleotide Reductase Protein R2 from <i>Escherichia coli</i> . <i>Biochemistry</i> , 2003, 42, 13269-13279.	2.5	48
114	The First Direct Characterization of a High-Valent Iron Intermediate in the Reaction of an α-Ketoglutarate-Dependent Dioxygenase: A High-Spin Fe(IV) Complex in Taurine/α-Ketoglutarate Dioxygenase (TauD) from <i>Escherichia coli</i> . <i>Biochemistry</i> , 2003, 42, 7497-7508.	2.5	654
115	Evidence for Hydrogen Abstraction from C1 of Taurine by the High-Spin Fe(IV) Intermediate Detected during Oxygen Activation by Taurine:α-Ketoglutarate Dioxygenase (TauD). <i>Journal of the American Chemical Society</i> , 2003, 125, 13008-13009.	13.7	373
116	Facile Electron Transfer during Formation of Cluster X and Kinetic Competence of X for Tyrosyl Radical Production in Protein R2 of Ribonucleotide Reductase from Mouse. <i>Biochemistry</i> , 2002, 41, 981-990.	2.5	31
117	Rational Reprogramming of the R2 Subunit of <i>Escherichia coli</i> Ribonucleotide Reductase into a Self-Hydroxylating Monooxygenase. <i>Journal of the American Chemical Society</i> , 2001, 123, 7017-7030.	13.7	73
118	Mechanism of Rapid Electron Transfer during Oxygen Activation in the R2 Subunit of <i>Escherichia coli</i> Ribonucleotide Reductase. 1. Evidence for a Transient Tryptophan Radical. <i>Journal of the American Chemical Society</i> , 2000, 122, 12195-12206.	13.7	138
119	Mechanism of Rapid Electron Transfer during Oxygen Activation in the R2 Subunit of <i>Escherichia coli</i> Ribonucleotide Reductase. 2. Evidence for and Consequences of Blocked Electron Transfer in the W48F Variant. <i>Journal of the American Chemical Society</i> , 2000, 122, 12207-12219.	13.7	70
120	O ₂ Activation by Non-Heme Diiron Proteins: Identification of a Symmetric 1,2-Peroxide in a Mutant of Ribonucleotide Reductase. <i>Biochemistry</i> , 1998, 37, 14659-14663.	2.5	173
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