

# Carsten Krebs

## List of Publications by Year in descending order

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197  
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15,549  
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10956

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20900

115  
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202  
all docs

202  
docs citations

202  
times ranked

8188  
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-Heme Fe(IV) Oxo Intermediates. <i>Accounts of Chemical Research</i> , 2007, 40, 484-492.	7.6	866
2	The First Direct Characterization of a High-Valent Iron Intermediate in the Reaction of an $\text{Fe}^{\text{IV}}\text{-Oxo}$ -Ketoglutarate-Dependent Dioxygenase: A High-Spin Fe(IV) Complex in Taurine/ $\text{Fe}^{\text{IV}}\text{-Oxo}$ -Ketoglutarate Dioxygenase (TauD) from <i>Escherichia coli</i> . <i>Biochemistry</i> , 2003, 42, 7497-7508.	1.2	654
3	IscU as a Scaffold for Iron-Sulfur Cluster Biosynthesis: A Sequential Assembly of [2Fe-2S] and [4Fe-4S] Clusters in IscU. <i>Biochemistry</i> , 2000, 39, 7856-7862.	1.2	419
4	Evidence for Hydrogen Abstraction from C1 of Taurine by the High-Spin Fe(IV) Intermediate Detected during Oxygen Activation by Taurine/ $\text{Fe}^{\text{IV}}\text{-Oxo}$ -Ketoglutarate Dioxygenase (TauD). <i>Journal of the American Chemical Society</i> , 2003, 125, 13008-13009.	6.6	373
5	Two interconverting Fe(IV) intermediates in aliphatic chlorination by the halogenase CytC3. <i>Nature Chemical Biology</i> , 2007, 3, 113-116.	3.9	305
6	Direct spectroscopic detection of a C-H-cleaving high-spin Fe(IV) complex in a prolyl-4-hydroxylase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 14738-14743.	3.3	289
7	EXAFS Spectroscopic Evidence for an $\text{Fe}^{\text{IV}}\text{-Oxo}$ Unit in the Fe(IV) Intermediate Observed during Oxygen Activation by Taurine/ $\text{Fe}^{\text{IV}}\text{-Oxo}$ -Ketoglutarate Dioxygenase. <i>Journal of the American Chemical Society</i> , 2004, 126, 8108-8109.	6.6	282
8	IscA, an Alternate Scaffold for Fe-S Cluster Biosynthesis. <i>Biochemistry</i> , 2001, 40, 14069-14080.	1.2	233
9	A Radically Different Mechanism for S-Adenosylmethionine-Dependent Methyltransferases. <i>Science</i> , 2011, 332, 604-607.	6.0	230
10	Formation of a Pterin Radical in the Reaction of the Heme Domain of Inducible Nitric Oxide Synthase with Oxygen. <i>Biochemistry</i> , 1999, 38, 15689-15696.	1.2	229
11	Human calprotectin is an iron-sequestering host-defense protein. <i>Nature Chemical Biology</i> , 2015, 11, 765-771.	3.9	218
12	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.	1.2	212
13	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.	3.3	206
14	Elucidation of the $\text{Fe}^{\text{IV}}\text{-Oxo}$ intermediate in the catalytic cycle of the halogenase SyrB2. <i>Nature</i> , 2013, 499, 320-323.	13.7	192
15	Spectroscopic and Computational Evaluation of the Structure of the High-Spin Fe(IV)-Oxo Intermediates in Taurine/ $\text{Fe}^{\text{IV}}\text{-Oxo}$ -Ketoglutarate Dioxygenase from <i>Escherichia coli</i> and Its His99Ala Ligand Variant. <i>Journal of the American Chemical Society</i> , 2007, 129, 6168-6179.	6.6	191
16	A Manganese(IV)/Iron(III) Cofactor in <i>Chlamydia trachomatis</i> Ribonucleotide Reductase. <i>Science</i> , 2007, 316, 1188-1191.	6.0	186
17	A Short Fe-Fe Distance in Peroxodiferric Ferritin: Control of Fe Substrate Versus Cofactor Decay?. <i>Science</i> , 2000, 287, 122-125.	6.0	184
18	Diphthamide biosynthesis requires an organic radical generated by an iron-sulfur enzyme. <i>Nature</i> , 2010, 465, 891-896.	13.7	180

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19	Mechanism of Taurine: $\alpha$ -Ketoglutarate Dioxygenase (TauD) from <i>Escherichia coli</i> . <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 4245-4254.	1.0	178
20	Direct Spectroscopic and Kinetic Evidence for the Involvement of a Peroxidiferic Intermediate during the Ferroxidase Reaction in Fast Ferritin Mineralization. <i>Biochemistry</i> , 1998, 37, 9871-9876.	1.2	174
21	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.	6.6	164
22	Kinetic Dissection of the Catalytic Mechanism of Taurine: $\alpha$ -Ketoglutarate Dioxygenase (TauD) from <i>Escherichia coli</i> . <i>Biochemistry</i> , 2005, 44, 8138-8147.	1.2	152
23	Drop-on-demand sample delivery for studying biocatalysts in action at X-ray free-electron lasers. <i>Nature Methods</i> , 2017, 14, 443-449.	9.0	150
24	The Ferroxidase Reaction of Ferritin Reveals a Diferric $\mu_4$ -1,2 Bridging Peroxide Intermediate in Common with Other O <sub>2</sub> -Activating Non-Heme Diiron Proteins. <i>Biochemistry</i> , 1999, 38, 5290-5295.	1.2	147
25	Engineering the Diiron Site of <i>Escherichia coli</i> Ribonucleotide Reductase Protein R2 to Accumulate an Intermediate Similar to Hperoxo, the Putative Peroxodiiron(III) Complex from the Methane Monooxygenase Catalytic Cycle. <i>Journal of the American Chemical Society</i> , 1998, 120, 1094-1095.	6.6	144
26	Spectroscopic Evidence for a High-Spin Br-Fe(IV)-Oxo Intermediate in the $\alpha$ -Ketoglutarate-Dependent Halogenase CytC3 from <i>Streptomyces</i> . <i>Journal of the American Chemical Society</i> , 2007, 129, 13408-13409.	6.6	140
27	Enzymatic C-H activation by metal-superoxo intermediates. <i>Current Opinion in Chemical Biology</i> , 2007, 11, 151-158.	2.8	140
28	Coordination of Adenosylmethionine to a Unique Iron Site of the [4Fe-4S] of Pyruvate Formate-Lyase Activating Enzyme: A Mössbauer Spectroscopic Study. <i>Journal of the American Chemical Society</i> , 2002, 124, 912-913.	6.6	139
29	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.	6.6	138
30	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.	6.6	136
31	Reconstitution of ThiC in thiamine pyrimidine biosynthesis expands the radical SAM superfamily. <i>Nature Chemical Biology</i> , 2008, 4, 758-765.	3.9	134
32	A Role for Iron in an Ancient Carbonic Anhydrase. <i>Journal of Biological Chemistry</i> , 2004, 279, 6683-6687.	1.6	133
33	<i>Escherichia coli</i> Lipoyl Synthase Binds Two Distinct [4Fe-4S] Clusters per Polypeptide. <i>Biochemistry</i> , 2004, 43, 11770-11781.	1.2	133
34	NifS-Mediated Assembly of [4Fe-4S] Clusters in the N- and C-Terminal Domains of the NifU Scaffold Protein. <i>Biochemistry</i> , 2005, 44, 12955-12969.	1.2	131
35	Stalking intermediates in oxygen activation by iron enzymes: Motivation and method. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 586-605.	1.5	131
36	Evidence for Only Oxygenative Cleavage of Aldehydes to Alk(a/e)nes and Formate by Cyanobacterial Aldehyde Decarboxylases. <i>Biochemistry</i> , 2012, 51, 7908-7916.	1.2	130

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37	Rapid Freeze-Quench $^{57}\text{Fe}$ Mössbauer Spectroscopy: Monitoring Changes of an Iron-Containing Active Site during a Biochemical Reaction. <i>Inorganic Chemistry</i> , 2005, 44, 742-757.	1.9	126
38	Mechanism of the C5 Stereoinversion Reaction in the Biosynthesis of Carbapenem Antibiotics. <i>Science</i> , 2014, 343, 1140-1144.	6.0	122
39	Conversion of Fatty Aldehydes to Alka(e)nes and Formate by a Cyanobacterial Aldehyde Decarbonylase: Cryptic Redox by an Unusual Dimetal Oxygenase. <i>Journal of the American Chemical Society</i> , 2011, 133, 6158-6161.	6.6	120
40	Direct nitration and azidation of aliphatic carbons by an iron-dependent halogenase. <i>Nature Chemical Biology</i> , 2014, 10, 209-215.	3.9	113
41	Evidence for C-H cleavage by an iron-superoxide complex in the glycol cleavage reaction catalyzed by myo-inositol oxygenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 6130-6135.	3.3	111
42	In Vitro Characterization of AtsB, a Radical SAM Formylglycine-Generating Enzyme That Contains Three [4Fe-4S] Clusters. <i>Biochemistry</i> , 2008, 47, 7523-7538.	1.2	107
43	Substrate activation by iron superoxo intermediates. <i>Current Opinion in Structural Biology</i> , 2010, 20, 673-683.	2.6	107
44	Mössbauer spectroscopy of Fe/S proteins. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 1395-1405.	1.9	102
45	The biosynthesis of methanobactin. <i>Science</i> , 2018, 359, 1411-1416.	6.0	101
46	Exchange and Double-Exchange Phenomena in Linear Homo- and Heterotrinnuclear Nickel(II,III,IV) Complexes Containing Six $\frac{1}{2}$ -Phenolato or $\frac{1}{2}$ -Thiophenolato Bridging Ligands. <i>Journal of the American Chemical Society</i> , 1996, 118, 12376-12390.	6.6	100
47	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.	6.6	99
48	RlmN and AtsB as Models for the Overproduction and Characterization of Radical SAM Proteins. <i>Methods in Enzymology</i> , 2012, 516, 125-152.	0.4	98
49	Two Distinct Mechanisms for C=C Desaturation by Iron(II)- and 2-(Oxo)glutarate-Dependent Oxygenases: Importance of $\delta$ -Heteroatom Assistance. <i>Journal of the American Chemical Society</i> , 2018, 140, 7116-7126.	6.6	98
50	Neelaredoxin, an Iron-binding Protein from the Syphilis Spirochete, <i>Treponema pallidum</i> , Is a Superoxide Reductase. <i>Journal of Biological Chemistry</i> , 2000, 275, 28439-28448.	1.6	97
51	Visualizing the Reaction Cycle in an Iron(II)- and 2-(Oxo)-glutarate-Dependent Hydroxylase. <i>Journal of the American Chemical Society</i> , 2017, 139, 13830-13836.	6.6	97
52	Characterization of the Cofactor Composition of <i>Escherichia coli</i> Biotin Synthase. <i>Biochemistry</i> , 2004, 43, 2007-2021.	1.2	96
53	Evidence for Basic Ferryls in Cytochromes P450. <i>Journal of the American Chemical Society</i> , 2006, 128, 11471-11474.	6.6	93
54	A catalytic di-heme bis-Fe(IV) intermediate, alternative to an Fe(IV)=O porphyrin radical. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8597-8600.	3.3	89

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55	Electronic Structure Analysis of the Oxygen-Activation Mechanism by Fe <sup>II</sup> - and Î±-Ketoglutarate (Î±KG)-Dependent Dioxygenases. <i>Chemistry - A European Journal</i> , 2012, 18, 6555-6567.	1.7	89
56	Dioxygen Reactivity of Mononuclear Heme and Copper Components Yielding A High-Spin Heme-Peroxo-Cu Complex. <i>Journal of the American Chemical Society</i> , 2001, 123, 6183-6184.	6.6	88
57	Formation of Fe(III)Fe(IV) Species from the Reaction between a Diiron(II) Complex and Dioxygen: Relevance to Ribonucleotide Reductase Intermediate X. <i>Journal of the American Chemical Society</i> , 1999, 121, 9893-9894.	6.6	87
58	Conversion of 3Fe-4S to 4Fe-4S Clusters in Native Pyruvate Formate-Lyase Activating Enzyme: A Mössbauer Characterization and Implications for Mechanism. <i>Journal of the American Chemical Society</i> , 2000, 122, 12497-12506.	6.6	86
59	CD and MCD of CytC3 and Taurine Dioxygenase: Role of the Facial Triad in Î±-KG-Dependent Oxygenases. <i>Journal of the American Chemical Society</i> , 2007, 129, 14224-14231.	6.6	86
60	Evidence for Two Ferryl Species in Chloroperoxidase Compound II. <i>Journal of the American Chemical Society</i> , 2006, 128, 6147-6153.	6.6	82
61	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.	6.6	81
62	Cyanobacterial alkane biosynthesis further expands the catalytic repertoire of the ferritin-like Î±-di-iron-carboxylate proteins. <i>Current Opinion in Chemical Biology</i> , 2011, 15, 291-303.	2.8	81
63	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.	1.2	78
64	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.	6.6	78
65	Evidence for a High-Spin Fe(IV) Species in the Catalytic Cycle of a Bacterial Phenylalanine Hydroxylase. <i>Biochemistry</i> , 2011, 50, 1928-1933.	1.2	77
66	Spectroscopic and Electrochemical Characterization of the Iron-Sulfur and Cobalamin Cofactors of TsrM, an Unusual Radical S-Adenosylmethionine Methylase. <i>Journal of the American Chemical Society</i> , 2016, 138, 3416-3426.	6.6	77
67	Characterization of RimO, a New Member of the Methylthiotransferase Subclass of the Radical SAM Superfamily. <i>Biochemistry</i> , 2009, 48, 10162-10174.	1.2	76
68	A Consensus Mechanism for Radical SAM-Dependent Dehydrogenation? BtrN Contains Two [4Fe-4S] Clusters. <i>Biochemistry</i> , 2010, 49, 3783-3785.	1.2	76
69	Evidence for the slow reaction of hypoxia-inducible factor prolyl hydroxylase <sup>2</sup> with oxygen. <i>FEBS Journal</i> , 2010, 277, 4089-4099.	2.2	75
70	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.	6.6	73
71	myo-Inositol oxygenase: a radical new pathway for O <sub>2</sub> and C-H activation at a nonheme diiron cluster. <i>Dalton Transactions</i> , 2009, , 905-914.	1.6	73
72	Generation of a Mixed-Valent Fe(III)Fe(IV) Form of Intermediate Q in the Reaction Cycle of Soluble Methane Monooxygenase, an Analog of Intermediate X in Ribonucleotide Reductase R2 Assembly. <i>Journal of the American Chemical Society</i> , 1998, 120, 2190-2191.	6.6	72

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73	Stoichiometric Production of Hydrogen Peroxide and Parallel Formation of Ferric Multimers through Decay of the Diferric <sup>2+</sup> Peroxo Complex, the First Detectable Intermediate in Ferritin Mineralization. <i>Biochemistry</i> , 2002, 41, 13435-13443.	1.2	72
74	Fe-S cofactors in the SARS-CoV-2 RNA-dependent RNA polymerase are potential antiviral targets. <i>Science</i> , 2021, 373, 236-241.	6.0	71
75	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.	6.6	70
76	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.	3.3	70
77	Evidence that the Fosfomycin-Producing Epoxidase, HppE, Is a Non-Heme-Iron Peroxidase. <i>Science</i> , 2013, 342, 991-995.	6.0	69
78	Mechanisms of 2-Oxoglutarate-Dependent Oxygenases: The Hydroxylation Paradigm and Beyond. <i>2-Oxoglutarate-Dependent Oxygenases</i> , 2015, , 95-122.	0.8	69
79	Substrate-Triggered Addition of Dioxygen to the Diferrous Cofactor of Aldehyde-Deformylating Oxygenase to Form a Diferric-Peroxo Intermediate. <i>Journal of the American Chemical Society</i> , 2013, 135, 15801-15812.	6.6	68
80	Electronic Structure of the Ferryl Intermediate in the $\alpha$ -Ketoglutarate Dependent Non-Heme Iron Halogenase SyrB2: Contributions to H Atom Abstraction Reactivity. <i>Journal of the American Chemical Society</i> , 2016, 138, 5110-5122.	6.6	68
81	Valence-Delocalized Diiron(II,III) Cores Supported by Carboxylate-Only Bridging Ligands. <i>Journal of the American Chemical Society</i> , 2000, 122, 5000-5001.	6.6	67
82	Spectroscopic, Steady-State Kinetic, and Mechanistic Characterization of the Radical SAM Enzyme QueE, Which Catalyzes a Complex Cyclization Reaction in the Biosynthesis of 7-Deazapurines. <i>Biochemistry</i> , 2013, 52, 188-198.	1.2	67
83	Cryoreduction of the NO-Adduct of Taurine: $\alpha$ -Ketoglutarate Dioxygenase (TauD) Yields an Elusive {FeNO} <sup>8+</sup> Species. <i>Journal of the American Chemical Society</i> , 2010, 132, 4739-4751.	6.6	66
84	SufR Coordinates Two [4Fe-4S] <sup>2+</sup> , 1+ Clusters and Functions as a Transcriptional Repressor of the sufBCDS Operon and an Autoregulator of sufR in Cyanobacteria. <i>Journal of Biological Chemistry</i> , 2007, 282, 31909-31919.	1.6	65
85	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.	6.6	61
86	Exchange Coupling in an Isostructural Series of Face-Sharing Bioctahedral Complexes [LMII(L <sup>1/4</sup> -X) <sub>3</sub> MII(L <sup>1/4</sup> -X) <sub>3</sub> Ph <sub>4</sub> (M = Mn, Fe, Co, Ni, Zn; X = Cl, Br; L = 1,4,7-Trimethyl-1,4,7-triazacyclononane). <i>Inorganic Chemistry</i> , 1997, 36, 2834-2843.	1.9	60
87	Cfr and RlmN Contain a Single [4Fe-4S] Cluster, which Directs Two Distinct Reactivities for <i>S</i> -Adenosylmethionine: Methyl Transfer by <i>S</i> <sub>2</sub> Displacement and Radical Generation. <i>Journal of the American Chemical Society</i> , 2011, 133, 19586-19589.	6.6	60
88	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.	2.6	59
89	<i>Escherichia coli</i> Quinolinate Synthetase Does Indeed Harbor a [4Fe-4S] Cluster. <i>Journal of the American Chemical Society</i> , 2005, 127, 7310-7311.	6.6	58
90	A Coupled Dinuclear Iron Cluster that Is Perturbed by Substrate Binding in myo-Inositol Oxygenase. <i>Biochemistry</i> , 2006, 45, 5393-5401.	1.2	58



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91	Functional Mimic of Dioxygen-Activating Centers in Non-Heme Diiron Enzymes: Mechanistic Implications of Paramagnetic Intermediates in the Reactions between Diiron(II) Complexes and Dioxygen. <i>Journal of the American Chemical Society</i> , 2002, 124, 3993-4007.	6.6	57
92	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.	6.6	57
93	A Triangular Iron(III) Complex Potentially Relevant to Iron(III) Binding Sites in Ferreascidin. <i>Chemistry - A European Journal</i> , 1997, 3, 193-201.	1.7	55
94	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.	6.6	55
95	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.	6.6	55
96	Unusual Synthetic Pathway for an {Fe(NO) <sub>2</sub> } <sup>9+</sup> Dinitrosyl Iron Complex (DNIC) and Insight into DNIC Electronic Structure via Nuclear Resonance Vibrational Spectroscopy. <i>Inorganic Chemistry</i> , 2016, 55, 5485-5501.	1.9	55
97	Peroxide Activation for Electrophilic Reactivity by the Binuclear Non-heme Iron Enzyme AurF. <i>Journal of the American Chemical Society</i> , 2017, 139, 7062-7070.	6.6	55
98	Highly Variable $\pi$ -Bonding in the Interaction of Iron(II) Porphyrinates with Nitrite. <i>Journal of the American Chemical Society</i> , 2000, 122, 10795-10804.	6.6	54
99	YfaE, a Ferredoxin Involved in Diferric-Tyrosyl Radical Maintenance in <i>Escherichia coli</i> Ribonucleotide Reductase. <i>Biochemistry</i> , 2007, 46, 11577-11588.	1.2	54
100	Further Characterization of Cys-Type and Ser-Type Anaerobic Sulfatase Maturing Enzymes Suggests a Commonality in the Mechanism of Catalysis. <i>Biochemistry</i> , 2013, 52, 2874-2887.	1.2	54
101	The COMBREX Project: Design, Methodology, and Initial Results. <i>PLoS Biology</i> , 2013, 11, e1001638.	2.6	54
102	Ability of Tetrahydrobiopterin Analogues to Support Catalysis by Inducible Nitric Oxide Synthase: Formation of a Pterin Radical Is Required for Enzyme Activity. <i>Biochemistry</i> , 2003, 42, 13287-13303.	1.2	53
103	<i>Escherichia coli</i> L-Serine Deaminase Requires a [4Fe-4S] Cluster in Catalysis. <i>Journal of Biological Chemistry</i> , 2004, 279, 32418-32425.	1.6	52
104	Oxygen Activation by a Mixed-Valent, Diiron(II/III) Cluster in the Glycol Cleavage Reaction Catalyzed by myo-Inositol Oxygenase. <i>Biochemistry</i> , 2006, 45, 5402-5412.	1.2	52
105	Formation and Function of the Manganese(IV)/Iron(III) Cofactor in <i>Chlamydia trachomatis</i> Ribonucleotide Reductase. <i>Biochemistry</i> , 2008, 47, 13736-13744.	1.2	52
106	Metal-free class Ia ribonucleotide reductase from pathogens initiates catalysis with a tyrosine-derived dihydroxyphenylalanine radical. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10022-10027.	3.3	49
107	A Paramagnetic Copper(III) Complex Containing an Octahedral Cu(III)S <sub>6</sub> Coordination Polyhedron. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 359-361.	7.2	48
108	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.	1.2	48

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109	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.	3.3	48
110	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.	1.2	47
111	Evidence for a Catalytically and Kinetically Competent Enzyme-Substrate Cross-Linked Intermediate in Catalysis by Lipoyl Synthase. <i>Biochemistry</i> , 2014, 53, 4557-4572.	1.2	47
112	Aromatic C-F Hydroxylation by Nonheme Iron(IV)-Oxo Complexes: Structural, Spectroscopic, and Mechanistic Investigations. <i>Journal of the American Chemical Society</i> , 2016, 138, 12791-12802.	6.6	47
113	Ground Spin State Variation in Carboxylate-Bridged Tetranuclear [Fe <sub>2</sub> Mn <sub>2</sub> O <sub>2</sub> ] <sup>8+</sup> Cores and a Comparison with Their [Fe <sub>4</sub> O <sub>2</sub> ] <sup>8+</sup> and [Mn <sub>4</sub> O <sub>2</sub> ] <sup>8+</sup> Congeners. <i>European Journal of Inorganic Chemistry</i> , 2003, 2003, 541-555.	1.0	46
114	Identification of FX in the Helicobacter Reaction Center as a [4Fe-4S] Cluster with an S = 3/2 Ground Spin State. <i>Biochemistry</i> , 2006, 45, 6756-6764.	1.2	45
115	Structural and spectroscopic analyses of the sporulation killing factor biosynthetic enzyme SkfB, a bacterial AdoMet radical sactisynthase. <i>Journal of Biological Chemistry</i> , 2018, 293, 17349-17361.	1.6	43
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