

# Robert P Hausinger

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4140108/publications.pdf>

Version: 2024-02-01

146  
papers

9,378  
citations

41344

49  
h-index

43889

91  
g-index

158  
all docs

158  
docs citations

158  
times ranked

7435  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fe(II)- $\alpha$ -Ketoglutarate-Dependent Hydroxylases and Related Enzymes. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2004, 39, 21-68.	5.2	828
2	Oxidative demethylation by <i>Escherichia coli</i> AlkB directly reverts DNA base damage. <i>Nature</i> , 2002, 419, 174-178.	27.8	679
3	Nickel uptake and utilization by microorganisms. <i>FEMS Microbiology Reviews</i> , 2003, 27, 239-261.	8.6	413
4	70 Years of Crystalline Urease: What Have We Learned?. <i>Accounts of Chemical Research</i> , 1997, 30, 330-337.	15.6	361
5	Catalytic Mechanisms of Fe(II)- and 2-Oxoglutarate-dependent Oxygenases. <i>Journal of Biological Chemistry</i> , 2015, 290, 20702-20711.	3.4	327
6	Direct Detection of Oxygen Intermediates in the Non-Heme Fe Enzyme Taurine/ $\alpha$ -Ketoglutarate Dioxygenase. <i>Journal of the American Chemical Society</i> , 2004, 126, 1022-1023.	13.7	277
7	Nickel-dependent metalloenzymes. <i>Archives of Biochemistry and Biophysics</i> , 2014, 544, 142-152.	3.0	269
8	Mechanisms of nickel toxicity in microorganisms. <i>Metallomics</i> , 2011, 3, 1153.	2.4	264
9	Structures of Cys319 Variants and Acetohydroxamate-Inhibited <i>Klebsiella aerogenes</i> Urease. <i>Biochemistry</i> , 1997, 36, 8164-8172.	2.5	225
10	X-ray Crystal Structure of <i>Escherichia coli</i> Taurine/ $\alpha$ -Ketoglutarate Dioxygenase Complexed to Ferrous Iron and Substrates. <i>Biochemistry</i> , 2002, 41, 5185-5192.	2.5	216
11	Non-heme iron oxygenases. <i>Current Opinion in Chemical Biology</i> , 2002, 6, 193-201.	6.1	213
12	Purification and characterization of <i>Klebsiella aerogenes</i> UreE protein: A nickel-binding protein that functions in urease metallocenter assembly. <i>Protein Science</i> , 1993, 2, 1042-1052.	7.6	156
13	Interplay of metal ions and urease. <i>Metallomics</i> , 2009, 1, 207.	2.4	155
14	Amazing Diversity in Biochemical Roles of Fe(II)/2-Oxoglutarate Oxygenases. <i>Trends in Biochemical Sciences</i> , 2018, 43, 517-532.	7.5	147
15	Stopped-Flow Kinetic Analysis of <i>Escherichia coli</i> Taurine/ $\alpha$ -Ketoglutarate Dioxygenase: Interactions with $\alpha$ -Ketoglutarate, Taurine, and Oxygen. <i>Biochemistry</i> , 1999, 38, 15278-15286.	2.5	131
16	Biosynthesis of Metal Sites. <i>Chemical Reviews</i> , 2004, 104, 509-526.	47.7	118
17	Inhibition of urease by bismuth(III): Implications for the mechanism of action of bismuth drugs. <i>BioMetals</i> , 2006, 19, 503-511.	4.1	112
18	O <sub>2</sub> - and $\alpha$ -Ketoglutarate-Dependent Tyrosyl Radical Formation in TauD, an $\alpha$ -Keto Acid-Dependent Non-Heme Iron Dioxygenase. <i>Biochemistry</i> , 2003, 42, 1854-1862.	2.5	110

#	ARTICLE	IF	CITATIONS
19	Biosynthesis of the Urease Metallocenter. <i>Journal of Biological Chemistry</i> , 2013, 288, 13178-13185.	3.4	108
20	Fluoride Inhibition of <i>Klebsiella aerogenes</i> Urease: Mechanistic Implications of a Pseudo-uncompetitive, Slow-Binding Inhibitor. <i>Biochemistry</i> , 2000, 39, 5389-5396.	2.5	100
21	Nickel and iron EXAFS of F420-reducing hydrogenase from <i>Methanobacterium thermoautotrophicum</i> . <i>Journal of the American Chemical Society</i> , 1984, 106, 3062-3064.	13.7	98
22	Kinetic and Structural Characterization of Urease Active Site Variants. <i>Biochemistry</i> , 2000, 39, 8575-8584.	2.5	97
23	Alternative Reactivity of an $\alpha$ -Ketoglutarate-Dependent Iron(II) Oxygenase: Enzyme Self-Hydroxylation. <i>Journal of the American Chemical Society</i> , 2001, 123, 5126-5127.	13.7	94
24	A tethered niacin-derived pincer complex with a nickel-carbon bond in lactate racemase. <i>Science</i> , 2015, 349, 66-69.	12.6	92
25	UreE Stimulation of GTP-Dependent Urease Activation in the UreD-UreF-UreG-urease Apoprotein Complex. <i>Biochemistry</i> , 2000, 39, 12435-12440.	2.5	90
26	Insight into the mechanism of an iron dioxygenase by resolution of steps following the Fe <sup>IV</sup> =O species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3982-3987.	7.1	89
27	Structure of the Dinuclear Active Site of Urease. X-ray Absorption Spectroscopic Study of Native and 2-Mercaptoethanol-Inhibited Bacterial and Plant Enzymes. <i>Inorganic Chemistry</i> , 1994, 33, 1589-1593.	4.0	86
28	Crystal Structure of <i>Klebsiella aerogenes</i> UreE, a Nickel-binding Metallochaperone for Urease Activation. <i>Journal of Biological Chemistry</i> , 2001, 276, 49359-49364.	3.4	86
29	Identification of Metal-Binding Residues in the <i>Klebsiella aerogenes</i> Urease Nickel Metallochaperone, UreE. <i>Biochemistry</i> , 1999, 38, 4078-4088.	2.5	85
30	The protein that binds to DNA base J in trypanosomatids has features of a thymidine hydroxylase. <i>Nucleic Acids Research</i> , 2007, 35, 2107-2115.	14.5	84
31	Site-directed mutagenesis of <i>Klebsiella aerogenes</i> urease: Identification of histidine residues that appear to function in nickel ligation, substrate binding, and catalysis. <i>Protein Science</i> , 1993, 2, 1034-1041.	7.6	83
32	Metal Ion Interactions with Urease and UreD-Urease Apoproteins. <i>Biochemistry</i> , 1996, 35, 5345-5352.	2.5	78
33	tfdA-Like Genes in 2,4-Dichlorophenoxyacetic Acid-Degrading Bacteria Belonging to the Bradyrhizobium-Agromonas-Nitrobacter-Afipia Cluster in $\alpha$ -Proteobacteria. <i>Applied and Environmental Microbiology</i> , 2002, 68, 3449-3454.	3.1	78
34	Herbicide-Degrading $\alpha$ -Keto Acid-Dependent Enzyme TfdA: Metal Coordination Environment and Mechanistic Insights. <i>Biochemistry</i> , 1999, 38, 16714-16726.	2.5	74
35	Metallocenter assembly in nickel-containing enzymes. <i>Journal of Biological Inorganic Chemistry</i> , 1997, 2, 279-286.	2.6	73
36	Steady-State and Transient Kinetic Analyses of Taurine $\alpha$ -Ketoglutarate Dioxygenase: Effects of Oxygen Concentration, Alternative Sulfonates, and Active-Site Variants on the FeIV-oxo Intermediate. <i>Biochemistry</i> , 2005, 44, 3845-3855.	2.5	71

#	ARTICLE	IF	CITATIONS
37	Iron-containing urease in a pathogenic bacterium. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13095-13099.	7.1	64
38	Fructose-1,6-bisphosphate aldolase (class II) is the primary site of nickel toxicity in <i>Escherichia coli</i> . Molecular Microbiology, 2011, 82, 1291-1300.	2.5	63
39	Human AlkB homologue 1 (ABH1) exhibits DNA lyase activity at abasic sites. DNA Repair, 2010, 9, 58-65.	2.8	58
40	In Vivo and in Vitro Kinetics of Metal Transfer by the <i>Klebsiella aerogenes</i> Urease Nickel Metallochaperone, UreE. Journal of Biological Chemistry, 2000, 275, 10731-10737.	3.4	57
41	Chemical Cross-linking and Mass Spectrometric Identification of Sites of Interaction for UreD, UreF, and Urease. Journal of Biological Chemistry, 2004, 279, 15305-15313.	3.4	57
42	Resonance Raman Studies of the Iron(II)-Keto Acid Chromophore in Model and Enzyme Complexes. Journal of the American Chemical Society, 2001, 123, 5022-5029.	13.7	55
43	Structures and Mechanisms of the Non-Heme Fe(II)- and 2-Oxoglutarate-Dependent Ethylene-Forming Enzyme: Substrate Binding Creates a Twist. Journal of the American Chemical Society, 2017, 139, 11980-11988.	13.7	55
44	Cloning and Characterization of a Sulfonate-Ketoglutarate Dioxygenase from <i>Saccharomyces cerevisiae</i> . Journal of Bacteriology, 1999, 181, 5876-5879.	2.2	55
45	Thermodynamics of Ni <sup>2+</sup> , Cu <sup>2+</sup> , and Zn <sup>2+</sup> Binding to the Urease Metallochaperone UreE. Biochemistry, 2007, 46, 10506-10516.	2.5	54
46	Preliminary crystallographic studies of urease from jack bean and from <i>Klebsiella aerogenes</i> . Journal of Molecular Biology, 1992, 227, 934-937.	4.2	53
47	Ferrous-ketoglutarate hydroxylases involved in nucleobase, nucleoside, nucleotide, and chromatin metabolism. Dalton Transactions, 2008, , 5132.	3.3	53
48	Chemical Rescue of <i>Klebsiella aerogenes</i> Urease Variants Lacking the Carbamylated-Lysine Nickel Ligand. Biochemistry, 1998, 37, 6214-6220.	2.5	50
49	Site-directed Mutagenesis of 2,4-Dichlorophenoxyacetic Acid-Ketoglutarate Dioxygenase. Journal of Biological Chemistry, 2000, 275, 12400-12409.	3.4	50
50	Site-Directed Mutagenesis of the <i>Anabaena</i> sp. Strain PCC 7120 Nitrogenase Active Site To Increase Photobiological Hydrogen Production. Applied and Environmental Microbiology, 2010, 76, 6741-6750.	3.1	50
51	Interconversion of two oxidized forms of taurine- $\alpha$ -ketoglutarate dioxygenase, a non-heme iron hydroxylase: Evidence for bicarbonate binding. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3790-3795.	7.1	49
52	Aberrant activity of the DNA repair enzyme AlkB. Journal of Inorganic Biochemistry, 2004, 98, 856-861.	3.5	49
53	Nickel-pincer cofactor biosynthesis involves LarB-catalyzed pyridinium carboxylation and LarE-dependent sacrificial sulfur insertion. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5598-5603.	7.1	48
54	Mutagenesis of <i>Klebsiella aerogenes</i> UreG To Probe Nickel Binding and Interactions with Other Urease-Related Proteins. Biochemistry, 2010, 49, 5859-5869.	2.5	45

#	ARTICLE	IF	CITATIONS
55	Biochemical and Spectroscopic Characterization of the Non-Heme Fe(II)- and 2-Oxoglutarate-Dependent Ethylene-Forming Enzyme from <i>Pseudomonas syringae</i> pv. <i>phaseolicola</i> PK2. <i>Biochemistry</i> , 2016, 55, 5989-5999.	2.5	43
56	Mutational and Computational Evidence That a Nickel-Transfer Tunnel in UreD Is Used for Activation of <i>Klebsiella aerogenes</i> Urease. <i>Biochemistry</i> , 2015, 54, 6392-6401.	2.5	41
57	Saturation magnetization of ureases from <i>Klebsiella aerogenes</i> and jack bean: no evidence for exchange coupling between the two active site nickel ions in the native enzymes. <i>Inorganic Chemistry</i> , 1993, 32, 634-638.	4.0	39
58	Metal ligand substitution and evidence for quinone formation in taurine $\beta$ -ketoglutarate dioxygenase. <i>Journal of Inorganic Biochemistry</i> , 2007, 101, 797-808.	3.5	39
59	Kinetic and spectroscopic investigation of Coll, Nill, and N-oxalylglycine inhibition of the FeII $\beta$ -ketoglutarate dioxygenase, TauD. <i>Biochemical and Biophysical Research Communications</i> , 2005, 338, 191-197.	2.1	38
60	Crystal structure of a truncated urease accessory protein UreF from <i>Helicobacter pylori</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 2839-2848.	2.6	37
61	Metabolic Versatility of Prokaryotes for Urea Decomposition. <i>Journal of Bacteriology</i> , 2004, 186, 2520-2522.	2.2	35
62	Characterization of the Mononickel Metallocenter in H134A Mutant Urease. <i>Journal of Biological Chemistry</i> , 1996, 271, 18632-18637.	3.4	33
63	Metal Coordination Environment of a Cu(II)-Substituted $\beta$ -Keto Acid-Dependent Dioxygenase That Degrades the Herbicide 2,4-D. <i>Journal of the American Chemical Society</i> , 1997, 119, 3413-3414.	13.7	33
64	Biosynthesis of Active <i>Bacillus subtilis</i> Urease in the Absence of Known Urease Accessory Proteins. <i>Journal of Bacteriology</i> , 2005, 187, 7150-7154.	2.2	33
65	The structure of urease activation complexes examined by flexibility analysis, mutagenesis, and small-angle X-ray scattering. <i>Archives of Biochemistry and Biophysics</i> , 2008, 480, 51-57.	3.0	33
66	Genetic Engineering of Cyanobacteria to Enhance Biohydrogen Production from Sunlight and Water. <i>Ambio</i> , 2012, 41, 169-173.	5.5	33
67	Structural insights into the catalytic mechanism of a sacrificial sulfur insertase of the N-type ATP pyrophosphatase family, LarE. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9074-9079.	7.1	33
68	Ascorbic Acid-Dependent Turnover and Reactivation of 2,4-Dichlorophenoxyacetic Acid $\beta$ -Ketoglutarate Dioxygenase Using Thiophenoxyacetic Acid. <i>Biochemistry</i> , 1998, 37, 3035-3042.	2.5	32
69	Purification and Properties of the <i>Klebsiella aerogenes</i> UreE Metal-Binding Domain, a Functional Metallochaperone of Urease. <i>Journal of Bacteriology</i> , 2005, 187, 3581-3585.	2.2	32
70	The AidB Component of the <i>Escherichia coli</i> Adaptive Response to Alkylating Agents Is a Flavin-Containing, DNA-Binding Protein. <i>Journal of Bacteriology</i> , 2006, 188, 223-230.	2.2	31
71	Purification and Characterization of the FeII- and $\beta$ -Ketoglutarate-Dependent Xanthine Hydroxylase from <i>Aspergillus nidulans</i> . <i>Biochemistry</i> , 2007, 46, 5293-5304.	2.5	31
72	Biochemical Diversity of 2-Oxoglutarate-Dependent Oxygenases. 2-Oxoglutarate-Dependent Oxygenases, 2015, , 1-58.	0.8	31

#	ARTICLE	IF	CITATIONS
73	Biosynthesis of the nickel-pincer nucleotide cofactor of lactate racemase requires a CTP-dependent cyclometallase. <i>Journal of Biological Chemistry</i> , 2018, 293, 12303-12317.	3.4	31
74	Lactate Racemase Nickel-Pincer Cofactor Operates by a Proton-Coupled Hydride Transfer Mechanism. <i>Biochemistry</i> , 2018, 57, 3244-3251.	2.5	30
75	Lanthanide-dependent alcohol dehydrogenases require an essential aspartate residue for metal coordination and enzymatic function. <i>Journal of Biological Chemistry</i> , 2020, 295, 8272-8284.	3.4	30
76	Atomic and Electronic Structure Determinants Distinguish between Ethylene Formation and Arginine Hydroxylation Reaction Mechanisms in the Ethylene-Forming Enzyme. <i>ACS Catalysis</i> , 2021, 11, 1578-1592.	11.2	30
77	Metal Ion Dependence of Recombinant <i>Escherichia coli</i> Allantoinase. <i>Journal of Bacteriology</i> , 2003, 185, 126-134.	2.2	29
78	Characterization of the <i>Klebsiella aerogenes</i> Urease Accessory Protein UreD in Fusion with the Maltose Binding Protein. <i>Journal of Bacteriology</i> , 2010, 192, 2294-2304.	2.2	29
79	<i>Klebsiella aerogenes</i> UreF: Identification of the UreG Binding Site and Role in Enhancing the Fidelity of Urease Activation. <i>Biochemistry</i> , 2012, 51, 2298-2308.	2.5	29
80	Stereospecific degradation of the phenoxypropionate herbicide dichlorprop. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1999, 6, 421-428.	1.8	28
81	Alternative substrates of 2,4-dichlorophenoxyacetate/α-ketoglutarate dioxygenase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2001, 15, 155-162.	1.8	28
82	Urease. , 1993, , 23-57.		28
83	An assay for Fe(II)/2-oxoglutarate-dependent dioxygenases by enzyme-coupled detection of succinate formation. <i>Analytical Biochemistry</i> , 2006, 353, 69-74.	2.4	27
84	Probing the Iron <sup>2+</sup> Substrate Orientation for Taurine/α-Ketoglutarate Dioxygenase Using Deuterium Electron Spin Echo Envelope Modulation Spectroscopy. <i>Biochemistry</i> , 2007, 46, 5951-5959.	2.5	27
85	Mechanism of the 6-Hydroxy-3-succinoyl-pyridine 3-Monooxygenase Flavoprotein from <i>Pseudomonas putida</i> S16. <i>Journal of Biological Chemistry</i> , 2014, 289, 29158-29170.	3.4	27
86	Reduction of Urease Activity by Interaction with the Flap Covering the Active Site. <i>Journal of Chemical Information and Modeling</i> , 2015, 55, 354-361.	5.4	27
87	Diethylpyrocarbonate reactivity of <i>Klebsiella aerogenes</i> urease: Effect of pH and active site ligands on the rate of inactivation. <i>The Protein Journal</i> , 1993, 12, 51-56.	1.1	25
88	Self-hydroxylation of taurine/α-ketoglutarate dioxygenase: evidence for more than one oxygen activation mechanism. <i>Journal of Biological Inorganic Chemistry</i> , 2006, 11, 63-72.	2.6	25
89	Spectroscopic analyses of 2-oxoglutarate-dependent oxygenases: TauD as a case study. <i>Journal of Biological Inorganic Chemistry</i> , 2017, 22, 367-379.	2.6	25
90	A Structural Model of the Urease Activation Complex Derived from Ion Mobility-Mass Spectrometry and Integrative Modeling. <i>Structure</i> , 2018, 26, 599-606.e3.	3.3	25

#	ARTICLE	IF	CITATIONS
91	Increased heterocyst frequency by patN disruption in Anabaena leads to enhanced photobiological hydrogen production at high light intensity and high cell density. Applied Microbiology and Biotechnology, 2017, 101, 2177-2188.	3.6	24
92	ALKBH7 Variant Related to Prostate Cancer Exhibits Altered Substrate Binding. PLoS Computational Biology, 2017, 13, e1005345.	3.2	24
93	Intrinsic tryptophan fluorescence as a probe of metal and $\alpha$ -ketoglutarate binding to TfdA, a mononuclear non-heme iron dioxygenase. Journal of Inorganic Biochemistry, 2003, 93, 66-70.	3.5	23
94	A covalent protein-DNA 5'-product adduct is generated following AP lyase activity of human ALKBH1 (AlkB homologue 1). Biochemical Journal, 2013, 452, 509-518.	3.7	23
95	Biochemical Characterization of AP Lyase and m <sup>6</sup> A Demethylase Activities of Human AlkB Homologue 1 (ALKBH1). Biochemistry, 2017, 56, 1899-1910.	2.5	23
96	X-ray absorption spectroscopic analysis of Fe(II) and Cu(II) forms of a herbicide-degrading $\alpha$ -ketoglutarate dioxygenase. Journal of Biological Inorganic Chemistry, 1999, 4, 122-129.	2.6	22
97	The UreEF Fusion Protein Provides a Soluble and Functional Form of the UreF Urease Accessory Protein. Journal of Bacteriology, 2006, 188, 8413-8420.	2.2	22
98	Probing the 2,4-Dichlorophenoxyacetate/ $\alpha$ -Ketoglutarate Dioxygenase Substrate-Binding Site by Site-Directed Mutagenesis and Mechanism-Based Inactivation. Biochemistry, 2002, 41, 9787-9794.	2.5	21
99	Unexpected complexity in the lactate racemization system of lactic acid bacteria. FEMS Microbiology Reviews, 2017, 41, S71-S83.	8.6	21
100	Urease activity in the crystalline state. Protein Science, 1995, 4, 2234-2236.	7.6	19
101	Measuring the Orientation of Taurine in the Active Site of the Non-Heme Fe(II)/ $\alpha$ -Ketoglutarate-Dependent Taurine Hydroxylase (TauD) Using Electron Spin Echo Envelope Modulation (ESEEM) Spectroscopy. Journal of Physical Chemistry B, 2013, 117, 10384-10394.	2.6	19
102	Sustained photobiological hydrogen production in the presence of N <sub>2</sub> by nitrogenase mutants of the heterocyst-forming cyanobacterium Anabaena. International Journal of Hydrogen Energy, 2014, 39, 19444-19451.	7.1	19
103	New metal cofactors and recent metallocofactor insights. Current Opinion in Structural Biology, 2019, 59, 1-8.	5.7	19
104	Biological Pincer Complexes. ChemCatChem, 2020, 12, 4242-4254.	3.7	18
105	Substitution of the Urease Active Site Carbamate by Dithiocarbamate and Vanadate. Biochemistry, 1997, 36, 15118-15122.	2.5	17
106	Characterization of human AlkB homologue 1 produced in mammalian cells and demonstration of mitochondrial dysfunction in ALKBH1-deficient cells. Biochemical and Biophysical Research Communications, 2018, 495, 98-103.	2.1	17
107	Thermodynamics of Iron(II) and Substrate Binding to the Ethylene-Forming Enzyme. Biochemistry, 2018, 57, 5696-5705.	2.5	17
108	Analysis of the Active Site Cysteine Residue of the Sacrificial Sulfur Insertase LarE from <i>Lactobacillus plantarum</i> . Biochemistry, 2018, 57, 5513-5523.	2.5	16

#	ARTICLE	IF	CITATIONS
109	Structural basis for the enantiospecificities of R- and S-specific phenoxypyruvate/±-ketoglutarate dioxygenases. <i>Protein Science</i> , 2006, 15, 1356-1368.	7.6	15
110	Function of UreB in <i>Klebsiella aerogenes</i> Urease. <i>Biochemistry</i> , 2011, 50, 9296-9308.	2.5	15
111	ALKBH1 Is Dispensable for Abasic Site Cleavage during Base Excision Repair and Class Switch Recombination. <i>PLoS ONE</i> , 2013, 8, e67403.	2.5	15
112	A structural perspective on the PP-loop ATP pyrophosphatase family. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2018, 53, 607-622.	5.2	14
113	Nickel-pincer nucleotide cofactor. <i>Current Opinion in Chemical Biology</i> , 2018, 47, 18-23.	6.1	14
114	Uncovering a superfamily of nickel-dependent hydroxyacid racemases and epimerases. <i>Scientific Reports</i> , 2020, 10, 18123.	3.3	14
115	Microbial Physiology of Nickel and Cobalt. , 2007, , 287-320.		13
116	Metal and substrate binding to an Fe(II) dioxygenase resolved by UV spectroscopy with global regression analysis. <i>Analytical Biochemistry</i> , 2010, 399, 64-71.	2.4	13
117	Analysis of a Soluble (UreD:UreF:UreG) <sub>2</sub> Accessory Protein Complex and Its Interactions with <i>Klebsiella aerogenes</i> Urease by Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 1328-1337.	2.8	13
118	Calorimetric Assessment of Fe <sup>2+</sup> Binding to ±-Ketoglutarate/Taurine Dioxygenase: Ironing Out the Energetics of Metal Coordination by the 2-His-1-Carboxylate Facial Triad. <i>Inorganic Chemistry</i> , 2015, 54, 2278-2283.	4.0	12
119	Characterization of active site variants of xanthine hydroxylase from <i>Aspergillus nidulans</i> . <i>Archives of Biochemistry and Biophysics</i> , 2008, 470, 44-53.	3.0	10
120	Characterization of a [4Fe-4S]-dependent LarE sulfur insertase that facilitates nickel-pincer nucleotide cofactor biosynthesis in <i>Thermotoga maritima</i> . <i>Journal of Biological Chemistry</i> , 2022, 298, 102131.	3.4	10
121	Apoprotein isolation and activation, and vibrational structure of the <i>Helicobacter mustelae</i> iron urease. <i>Journal of Inorganic Biochemistry</i> , 2012, 111, 195-202.	3.5	9
122	Homology modeling, molecular dynamics, and site-directed mutagenesis study of AlkB human homolog 1 (ALKBH1). <i>Journal of Molecular Graphics and Modelling</i> , 2014, 54, 123-130.	2.4	9
123	Characterization of the nickel-inserting cyclometallase LarC from <i>Moorella thermoacetica</i> and identification of a cytidinylated reaction intermediate. <i>Metallomics</i> , 2022, 14, .	2.4	9
124	Structural Origin of the Large Redox-Linked Reorganization in the 2-Oxoglutarate Dependent Oxygenase, TauD. <i>Journal of the American Chemical Society</i> , 2019, 141, 15318-15326.	13.7	8
125	The LarB carboxylase/hydrolase forms a transient cysteinyl-pyridine intermediate during nickel-pincer nucleotide cofactor biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	8
126	Chaperones of Nickel Metabolism. , 2007, , 519-544.		7

#	ARTICLE	IF	CITATIONS
127	Chapter 3. Transient Iron Species in the Catalytic Mechanism of the Archetypal $\alpha$ -Ketoglutarate-Dependent Dioxygenase, TauD. , 0, , 67-87.		7
128	Global stability of an $\alpha$ -ketoglutarate-dependent dioxygenase (TauD) and its related complexes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 987-994.	2.4	7
129	Characterization of a <i>Trypanosoma brucei</i> Alkb homolog capable of repairing alkylated DNA. <i>Experimental Parasitology</i> , 2012, 131, 92-100.	1.2	6
130	Strongly Coupled Redox-Linked Conformational Switching at the Active Site of the Non-Heme Iron-Dependent Dioxygenase, TauD. <i>Journal of Physical Chemistry B</i> , 2019, 123, 7785-7793.	2.6	6
131	<i>Trypanosoma brucei brucei</i> : Thymine 7-hydroxylase-like proteins. <i>Experimental Parasitology</i> , 2010, 124, 453-458.	1.2	5
132	1H-HYSCORE Reveals Structural Details at the Fe(II) Active Site of Taurine:2-Oxoglutarate Dioxygenase. <i>Applied Magnetic Resonance</i> , 2021, 52, 971-994.	1.2	5
133	Iron-containing ureases. <i>Coordination Chemistry Reviews</i> , 2021, 448, 214190.	18.8	4
134	AlkB and Its Homologues " DNA Repair and Beyond. 2-Oxoglutarate-Dependent Oxygenases, 2015, , 246-262.	0.8	4
135	The <i>Escherichia coli</i> alkylation response protein AidB is a redox partner of flavodoxin and binds RNA and acyl carrier protein. <i>Archives of Biochemistry and Biophysics</i> , 2011, 513, 81-86.	3.0	3
136	Non-thiolate ligation of nickel by nucleotide-free UreG of <i>Klebsiella aerogenes</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2017, 22, 497-503.	2.6	3
137	The Irving-Williams series and the 2-His-1-carboxylate facial triad: a thermodynamic study of Mn <sup>2+</sup> , Fe <sup>2+</sup> , and Co <sup>2+</sup> binding to taurine/ $\alpha$ -ketoglutarate dioxygenase (TauD). <i>Journal of Biological Inorganic Chemistry</i> , 2018, 23, 785-793.	2.6	3
138	Glutarate L-2-hydroxylase (CsiD/GlaH) is an archetype Fe(II)/2-oxoglutarate-dependent dioxygenase. <i>Advances in Protein Chemistry and Structural Biology</i> , 2019, 117, 63-90.	2.3	3
139	CHAPTER 11. Lactate Racemase and Its Niacin-Derived, Covalently-Tethered, Nickel Cofactor. 2-Oxoglutarate-Dependent Oxygenases, 0, , 220-236.	0.8	3
140	Structural and mutational characterization of a malate racemase from the LarA superfamily. <i>BioMetals</i> , 2022, , 1.	4.1	3
141	CrII Reactivity of Taurine/ $\alpha$ -Ketoglutarate Dioxygenase. <i>Inorganic Chemistry</i> , 2007, 46, 10087-10092.	4.0	2
142	Crystallographic characterization of a tri-Asp metal-binding site at the three-fold symmetry axis of LarE. <i>Scientific Reports</i> , 2020, 10, 5830.	3.3	2
143	Biosynthesis of Metal Sites. <i>ChemInform</i> , 2004, 35, no.	0.0	0
144	Nickel-Pincer Nucleotide Cofactor-Containing Enzymes. , 2020, , 111-130.		0

#	ARTICLE	IF	CITATIONS
145	Biosynthesis and Function of the Nickel-Inserting Nucleotide Cofactor. FASEB Journal, 2022, 36, .	0.5	0
146	Characterization of the Nickel-Inserting Cyclometallase LarC from <i>Moorella thermoacetica</i> and Identification of a Cofactor Reaction Intermediate. FASEB Journal, 2022, 36, .	0.5	0