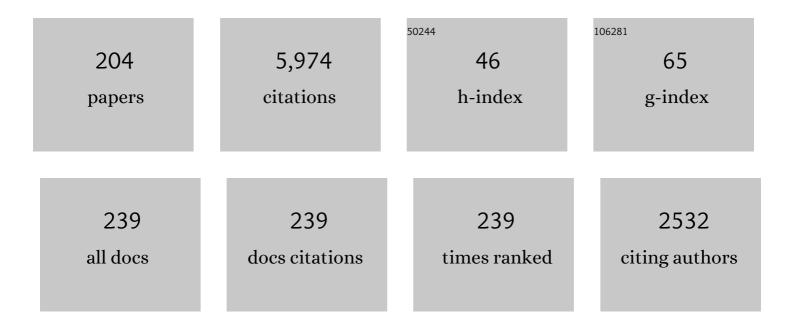
## Victor L Davidson

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3337348/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Crystal structure of an electron-transfer complex between methylamine dehydrogenase and amicyanin. Biochemistry, 1992, 31, 4959-4964.	1.2	178
2	What Controls the Rates of Interprotein Electron-Transfer Reactions. Accounts of Chemical Research, 2000, 33, 87-93.	7.6	139
3	Crystal structure analysis of amicyanin and apoamicyanin from <i>paracoccus denitrificans</i> at 2.0 à and 1.8 à resolution. Protein Science, 1993, 2, 739-752.	3.1	123
4	MauG, a Novel Diheme Protein Required for Tryptophan Tryptophylquinone Biogenesis. Biochemistry, 2003, 42, 7318-7325.	1.2	123
5	In Crystallo Posttranslational Modification Within a MauG/Pre–Methylamine Dehydrogenase Complex. Science, 2010, 327, 1392-1394.	6.0	117
6	Molecular Basis for Interprotein Complex-Dependent Effects on the Redox Properties of Amicyaninâ€. Biochemistry, 1998, 37, 17128-17136.	1.2	108
7	Refined crystal structure of methylamine dehydrogenase from Paracoccus denitrificans at 1.75 Ã resolution. Journal of Molecular Biology, 1998, 276, 131-149.	2.0	106
8	Redox properties of the quinoprotein methylamine dehydrogenase from Paracoccus denitrificans. Biochemistry, 1987, 26, 4139-4143.	1.2	103
9	Protein Control of True, Gated, and Coupled Electron Transfer Reactions. Accounts of Chemical Research, 2008, 41, 730-738.	7.6	102
10	Deuterium kinetic isotope effect and stopped-flow kinetic studies of the quinoprotein methylamine dehydrogenase. Biochemistry, 1993, 32, 2725-2729.	1.2	95
11	A catalytic di-heme <i>bis</i> -Fe(IV) intermediate, alternative to an Fe(IV)=O porphyrin radical. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8597-8600.	3.3	89
12	Kinetic and Thermodynamic Analysis of a Physiologic Intermolecular Electron-Transfer Reaction between Methylamine Dehydrogenase and Amicyanin. Biochemistry, 1994, 33, 5696-5701.	1.2	88
13	Acoustic Injectors for Drop-On-Demand Serial Femtosecond Crystallography. Structure, 2016, 24, 631-640.	1.6	88
14	Studies on the mechanism of action of channel-forming colicins using artificial membranes. Journal of Membrane Biology, 1984, 79, 105-118.	1.0	86
15	The active site structure of the calcium-containing quinoprotein methanol dehydrogenase. Biochemistry, 1993, 32, 12955-12958.	1.2	85
16	Unraveling the Kinetic Complexity of Interprotein Electron Transfer Reactionsâ€. Biochemistry, 1996, 35, 14035-14039.	1.2	84
17	Pyrroloquinoline quinone (PQQ) from methanol dehydrogenase and tryptophan tryptophylquinone (TTQ) from methylamine dehydrogenase. Advances in Protein Chemistry, 2001, 58, 95-140.	4.4	77
18	Further Insights into Quinone Cofactor Biogenesis:Â Probing the Role ofmauGin Methylamine Dehydrogenase Tryptophan Tryptophylquinone Formationâ€. Biochemistry, 2004, 43, 5494-5502.	1.2	76

#	Article	IF	CITATIONS
19	Cupredoxinsâ $\in$ "A study of how proteins may evolve to use metals for bioenergetic processes. Metallomics, 2011, 3, 140.	1.0	76
20	Amperometric Detection of Histamine with a Methylamine Dehydrogenase Polypyrrole-Based Sensor. Analytical Chemistry, 2000, 72, 2211-2215.	3.2	75
21	Properties of Paracoccus denitrificans amicyanin. Biochemistry, 1986, 25, 2431-2436.	1.2	69
22	Protein-Derived Cofactors. Expanding the Scope of Post-Translational Modifications. Biochemistry, 2007, 46, 5283-5292.	1.2	69
23	Intermolecular Electron Transfer from Substrate-Reduced Methylamine Dehydrogenase to Amicyanin is Linked to Proton Transfer. Biochemistry, 1995, 34, 12082-12086.	1.2	68
24	Electron transfer in quinoproteins. Archives of Biochemistry and Biophysics, 2004, 428, 32-40.	1.4	68
25	Crystallographic investigations of the tryptophan-derived cofactor in the quinoprotein methylamine dehydrogenase. FEBS Letters, 1991, 287, 163-166.	1.3	66
26	Mutagenesis of tryptophan199 suggests that hopping is required for MauG-dependent tryptophan tryptophylquinone biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16956-16961.	3.3	65
27	Tryptophan-mediated charge-resonance stabilization in the <i>bis</i> -Fe(IV) redox state of MauG. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9639-9644.	3.3	63
28	Free energy dependence of the electron transfer reaction between methylamine dehydrogenase and amicyanin. Journal of the American Chemical Society, 1994, 116, 11201-11202.	6.6	61
29	[38] Methylamine dehydrogenases from methylotrophic bacteria. Methods in Enzymology, 1990, 188, 241-246.	0.4	60
30	Evidence for Redox Cooperativity betweenc-Type Hemes of MauG Which Is Likely Coupled to Oxygen Activation during Tryptophan Tryptophylquinone Biosynthesisâ€. Biochemistry, 2006, 45, 821-828.	1.2	59
31	Ionic Strength Dependence of the Reaction between Methanol Dehydrogenase and Cytochrome c-551i: Evidence of Conformationally Coupled Electron Transfer. Biochemistry, 1994, 33, 12600-12608.	1.2	58
32	Heterologous Expression of Correctly Assembled Methylamine Dehydrogenase in Rhodobacter sphaeroides. Journal of Bacteriology, 1999, 181, 4216-4222.	1.0	58
33	Measurement of the oxidation-reduction potentials of amicyanin andc-type cytochromes fromParacoccus denitrificans. FEBS Letters, 1986, 207, 239-242.	1.3	56
34	Intermolecular electron transfer from quinoproteins and its relevance to biosensor technology. Analytica Chimica Acta, 1991, 249, 235-240.	2.6	56
35	Electron Transfer Reactions between Aromatic Amine Dehydrogenase and Azurin. Biochemistry, 1995, 34, 12249-12254.	1.2	53
36	Enzymatic and Electron Transfer Activities in Crystalline Protein Complexes. Journal of Biological Chemistry, 1996, 271, 9177-9180.	1.6	53

#	Article	IF	CITATIONS
37	Mechanistic Studies of Aromatic Amine Dehydrogenase, a Tryptophan Tryptophylquinone Enzyme. Biochemistry, 1995, 34, 816-823.	1.2	52
38	MauG-Dependent in Vitro Biosynthesis of Tryptophan Tryptophylquinone in Methylamine Dehydrogenase. Journal of the American Chemical Society, 2005, 127, 8258-8259.	6.6	52
39	Electron Transfer from Copper to Heme within the Methylamine Dehydrogenaseâ~'Amicyaninâ^'Cytochromec-551i Complexâ€. Biochemistry, 1996, 35, 8120-8125.	1.2	51
40	Catalytic Role of Monovalent Cations in the Mechanism of Proton Transfer Which Gates an Interprotein Electron Transfer Reaction. Biochemistry, 1997, 36, 13586-13592.	1.2	51
41	Diradical intermediate within the context of tryptophan tryptophylquinone biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4569-4573.	3.3	51
42	Three-dimensional structure of the quinoprotein methylamine dehydrogenase fromParacoccus denitrificans determined by molecular replacement at 2.8 Ã resolution. Proteins: Structure, Function and Bioinformatics, 1992, 14, 288-299.	1.5	50
43	Characterization of the tryptophan-derived quinone cofactor of methylamine dehydrogenase by resonance Raman spectroscopy. Biochemistry, 1991, 30, 9201-9210.	1.2	48
44	Improved Sensitivity of a Histamine Sensor Using an Engineered Methylamine Dehydrogenase. Analytical Chemistry, 2002, 74, 1144-1148.	3.2	48
45	Chemically Gated Electron Transfer. A Means of Accelerating and Regulating Rates of Biological Electron Transferâ€. Biochemistry, 2002, 41, 14633-14636.	1.2	48
46	Kinetic Mechanism for the Initial Steps in MauG-Dependent Tryptophan Tryptophylquinone Biosynthesis. Biochemistry, 2009, 48, 2442-2447.	1.2	47
47	Evidence for a Tryptophan Tryptophylquinone Aminosemiquinone Intermediate in the Physiologic Reaction between Methylamine Dehydrogenase and Amicyaninâ€. Biochemistry, 1996, 35, 8948-8954.	1.2	46
48	Mechanistic Possibilities in MauG-Dependent Tryptophan Tryptophylquinone Biosynthesisâ€. Biochemistry, 2006, 45, 13276-13283.	1.2	45
49	Factors Which Stabilize the Methylamine Dehydrogenaseâ^'Amicyanin Electron Transfer Protein Complex Revealed by Site-Directed Mutagenesis. Biochemistry, 1997, 36, 12733-12738.	1.2	43
50	Generation of protein-derived redoxcofactors by posttranslational modification. Molecular BioSystems, 2011, 7, 29-37.	2.9	43
51	Binding and electron transfer reactions between methanol dehydrogenase and its physiologic electron acceptor cytochrome c-551i: A kinetic and thermodynamic analysis. Biochemistry, 1993, 32, 14145-14150.	1.2	42
52	Functional Importance of Tyrosine 294 and the Catalytic Selectivity for the Bis-Fe(IV) State of MauG Revealed by Replacement of This Axial Heme Ligand with Histidine,. Biochemistry, 2010, 49, 9783-9791.	1.2	42
53	Reactions of benzylamines with methylamine dehydrogenase. Evidence for a carbanionic reaction intermediate and reaction mechanism similar to eukaryotic quinoproteins. Biochemistry, 1992, 31, 3385-3390.	1.2	39
54	Characterization of Electron Tunneling and Hole Hopping Reactions between Different Forms of MauG and Methylamine Dehydrogenase within a Natural Protein Complex. Biochemistry, 2012, 51, 6942-6949.	1.2	39

#	Article	IF	CITATIONS
55	Structural Studies of Two Mutants of Amicyanin from Paracoccus denitrificans That Stabilize the Reduced State of the Copper,. Biochemistry, 2004, 43, 9372-9380.	1.2	37
56	Tracking X-ray-derived redox changes in crystals of a methylamine dehydrogenase/amicyanin complex using single-crystal UV/Vis microspectrophotometry. Journal of Synchrotron Radiation, 2007, 14, 92-98.	1.0	37
57	Posttranslational Biosynthesis of the Protein-Derived Cofactor Tryptophan Tryptophylquinone. Annual Review of Biochemistry, 2013, 82, 531-550.	5.0	36
58	Cytochrome c -550 mediates electron transfer from inducible periplasmic c -type cytochromes to the cytoplasmic membrane of Paracoccus denitrificans. FEBS Letters, 1989, 245, 271-273.	1.3	35
59	Preliminary crystal structure studies of a ternary electron transfer complex between a quinoprotein, a blue copper protein, and a <i>c</i> â€ŧype cytochrome. Protein Science, 1993, 2, 147-154.	3.1	34
60	Direct Detection by15N NMR of the Tryptophan Tryptophylquinone Aminoquinol Reaction Intermediate of Methylamine Dehydrogenase. Journal of the American Chemical Society, 1996, 118, 12868-12869.	6.6	34
61	Crystal Structure of an Electron Transfer Complex between Aromatic Amine Dehydrogenase and Azurin from Alcaligenes faecalis,. Biochemistry, 2006, 45, 13500-13510.	1.2	34
62	Effects of Kinetic Coupling on Experimentally Determined Electron Transfer Parametersâ€. Biochemistry, 2000, 39, 4924-4928.	1.2	33
63	[14] Detection of intermediates in tryptophan tryptophylquinone enzymes. Methods in Enzymology, 1995, 258, 176-190.	0.4	30
64	Electron Transfer from the Aminosemiquinone Reaction Intermediate of Methylamine Dehydrogenase to Amicyaninâ€. Biochemistry, 1998, 37, 11026-11032.	1.2	30
65	X-ray structure of methanol dehydrogenase from Paracoccus denitrificans and molecular modeling of its interactions with cytochrome c-551i. Journal of Biological Inorganic Chemistry, 2003, 8, 843-854.	1.1	30
66	Involvement of a Putative [Fe-S]-cluster-binding Protein in the Biogenesis of Quinohemoprotein Amine Dehydrogenase. Journal of Biological Chemistry, 2006, 281, 13672-13684.	1.6	30
67	Unprecedented Fe(IV) Species in a Diheme Protein MauG: A Quantum Chemical Investigation on the Unusual MA¶ssbauer Spectroscopic Properties. Journal of Physical Chemistry Letters, 2010, 1, 2936-2939.	2.1	30
68	Proline 107 Is a Major Determinant in Maintaining the Structure of the Distal Pocket and Reactivity of the High-Spin Heme of MauG. Biochemistry, 2012, 51, 1598-1606.	1.2	30
69	Role of Calcium in Metalloenzymes: Effects of Calcium Removal on the Axial Ligation Geometry and Magnetic Properties of the Catalytic Diheme Center in MauG. Biochemistry, 2012, 51, 1586-1597.	1.2	30
70	Uncovering novel biochemistry in the mechanism of tryptophan tryptophylquinone cofactor biosynthesis. Current Opinion in Chemical Biology, 2009, 13, 469-474.	2.8	29
71	Preliminary X-ray crystallographic study of amicyanin from Paracoccus denitrificans. Journal of Molecular Biology, 1986, 189, 257-258.	2.0	28
72	Site-Directed Mutagenesis of Phe 97 to Glu in Amicyanin Alters the Electronic Coupling for Interprotein Electron Transfer from Quinol Methylamine Dehydrogenaseâ€. Biochemistry, 1998, 37, 7371-7377.	1.2	28

#	Article	IF	CITATIONS
73	Protein-Derived Cofactors Revisited: Empowering Amino Acid Residues with New Functions. Biochemistry, 2018, 57, 3115-3125.	1.2	28
74	Preliminary X-ray crystallographic studies of methylamine dehydrogenase and methylamine dehydrogenase-amicyanin complexes from Paracoccus denitrificans. Journal of Molecular Biology, 1988, 203, 1137-1138.	2.0	26
75	pH-Dependent semiquinone formation by methylamine dehydrogenase from Paracoccus denitrificans. Evidence for intermolecular electron transfer between quinone cofactors. Biochemistry, 1990, 29, 10786-10791.	1.2	25
76	Spectroscopic Evidence for a Common Electron Transfer Pathway for Two Tryptophan Tryptophylquinone Enzymes. Journal of Biological Chemistry, 1995, 270, 4293-4298.	1.6	25
77	Identification of a New Reaction Intermediate in the Oxidation of Methylamine Dehydrogenase by Amicyaninâ€. Biochemistry, 1999, 38, 4862-4867.	1.2	25
78	Conversion of Methylamine Dehydrogenase to a Long-Chain Amine Dehydrogenase by Mutagenesis of a Single Residue. Biochemistry, 2000, 39, 11184-11186.	1.2	25
79	Long-Range Electron Transfer Reactions between Hemes of MauG and Different Forms of Tryptophan Tryptophylquinone of Methylamine Dehydrogenase. Biochemistry, 2010, 49, 5810-5816.	1.2	25
80	Oxidative Damage in MauG: Implications for the Control of High-Valent Iron Species and Radical Propagation Pathways. Biochemistry, 2013, 52, 9447-9455.	1.2	25
81	Binding constants for a physiologic electron-transfer protein complex between methylamine dehydrogenase and amicyanin. Effects of ionic strength and bound copper on binding. Biochimica Et Biophysica Acta - Bioenergetics, 1993, 1144, 39-45.	0.5	24
82	A new kinetic model for the steady-state reactions of the quinoprotein methanol dehydrogenase from Paracoccus denitrificans. Biochemistry, 1993, 32, 4362-4368.	1.2	24
83	Chemical and Kinetic Reaction Mechanisms of Quinohemoprotein Amine Dehydrogenase from Paracoccus denitrificans. Biochemistry, 2003, 42, 10896-10903.	1.2	24
84	Calcium-proton antiports in photosynthetic purple bacteria. Biochimica Et Biophysica Acta - Bioenergetics, 1981, 637, 53-60.	0.5	23
85	Structure of the Dithionite-Generated Tryptophan Tryptophyloquinone Cofactor Radical in Methylamine Dehydrogenase Revealed by ENDOR and ESEEM Spectroscopies. Journal of the American Chemical Society, 1995, 117, 10063-10075.	6.6	23
86	lsotope Labeling Studies Reveal the Order of Oxygen Incorporation into the Tryptophan Tryptophylquinone Cofactor of Methylamine Dehydrogenase. Journal of the American Chemical Society, 2006, 128, 12416-12417.	6.6	23
87	Chemical cross-linking study of complex formation between methylamine dehydrogenase and amicyanin from Paracoccus denitrificans. Biochemistry, 1990, 29, 5299-5304.	1.2	22
88	Redox Properties of Tryptophan Tryptophylquinone Enzymes. Journal of Biological Chemistry, 1998, 273, 14254-14260.	1.6	22
89	Characterization of the Tryptophan Tryptophyl-Semiquinone Catalytic Intermediate of Methylamine Dehydrogenase by Electron Spinâ^'Echo Envelope Modulation Spectroscopy. Journal of the American Chemical Society, 2000, 122, 931-938.	6.6	22
90	Mutation of αPhe55 of Methylamine Dehydrogenase Alters the Reorganization Energy and Electronic Coupling for Its Electron Transfer Reaction with Amicyanin,. Biochemistry, 2002, 41, 13926-13933.	1.2	21

#	Article	IF	CITATIONS
91	Understanding Quinone Cofactor Biogenesis in Methylamine Dehydrogenase through Novel Cofactor Generationâ€. Biochemistry, 2003, 42, 3224-3230.	1.2	21
92	An Engineered CuA Amicyanin Capable of Intermolecular Electron Transfer Reactions. Journal of Biological Chemistry, 2003, 278, 47269-47274.	1.6	21
93	Generation of Novel Copper Sites by Mutation of the Axial Ligand of Amicyanin. Atomic Resolution Structures and Spectroscopic Properties,. Biochemistry, 2007, 46, 1900-1912.	1.2	21
94	Kinetic and Physical Evidence That the Diheme Enzyme MauG Tightly Binds to a Biosynthetic Precursor of Methylamine Dehydrogenase with Incompletely Formed Tryptophan Tryptophylquinone. Biochemistry, 2008, 47, 2908-2912.	1.2	21
95	Heme Iron Nitrosyl Complex of MauG Reveals an Efficient Redox Equilibrium between Hemes with Only One Heme Exclusively Binding Exogenous Ligands. Biochemistry, 2009, 48, 11603-11605.	1.2	21
96	Cofactor-directed inactivation by nucleophilic amines of the quinoprotein methylamine dehydrogenase from Paracoccus denitrificans. BBA - Proteins and Proteomics, 1992, 1121, 104-110.	2.1	20
97	Unusually large isotope effect for the reaction of aromatic amine dehydrogenase. A common feature of quinoproteins?. BBA - Proteins and Proteomics, 1995, 1251, 198-200.	2.1	20
98	Structure and mechanism of tryptophylquinone enzymes. Bioorganic Chemistry, 2005, 33, 159-170.	2.0	20
99	Detection of Transient Intermediates in the Metal-Dependent Nonoxidative Decarboxylation Catalyzed by α-Amino-Î2-Carboxymuconate-ε-Semialdehyde Decarboxylase. Journal of the American Chemical Society, 2007, 129, 9278-9279.	6.6	20
100	Suicide Inactivation of MauG during Reaction with O <sub>2</sub> or H <sub>2</sub> O <sub>2</sub> in the Absence of Its Natural Protein Substrate. Biochemistry, 2009, 48, 10106-10112.	1.2	20
101	Crystal Structures of CO and NO Adducts of MauG in Complex with Pre-Methylamine Dehydrogenase: Implications for the Mechanism of Dioxygen Activation. Biochemistry, 2011, 50, 2931-2938.	1.2	20
102	Geometric and electronic structures of the His–Fe(IV)=O and His–Fe(IV)–Tyr hemes of MauG. Journal of Biological Inorganic Chemistry, 2012, 17, 1241-1255.	1.1	20
103	Mechanisms for control of biological electron transfer reactions. Bioorganic Chemistry, 2014, 57, 213-221.	2.0	20
104	Characterization of recombinant biosynthetic precursors of the cysteine tryptophylquinone cofactors of l-lysine-epsilon-oxidase and glycine oxidase from Marinomonas mediterranea. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2015, 1854, 1123-1131.	1.1	20
105	ATP-dependent K+ uptake by a photosynthetic purple sulfur bacterium. Archives of Biochemistry and Biophysics, 1982, 213, 358-362.	1.4	19
106	Complex Formation with Methylamine Dehydrogenase Affects the Pathway of Electron Transfer from Amicyanin to Cytochrome c-551i. Journal of Biological Chemistry, 1995, 270, 23941-23943.	1.6	19
107	Roles of multiple-proton transfer pathways and proton-coupled electron transfer in the reactivity of the bis-FeIV state of MauG. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10896-10901.	3.3	19
108	The Rv2633c protein of Mycobacterium tuberculosis is a non-heme di-iron catalase with a possible role in defenses against oxidative stress. Journal of Biological Chemistry, 2018, 293, 1590-1595.	1.6	19

#	Article	IF	CITATIONS
109	Molecular Basis for Complex Formation between Methylamine Dehydrogenase and Amicyanin Revealed by Inverse Mutagenesis of an Interprotein Salt Bridgeâ€. Biochemistry, 2000, 39, 8830-8836.	1.2	18
110	Re-Engineering Monovalent Cation Binding Sites of Methylamine Dehydrogenase:Â Effects on Spectral Properties and Gated Electron Transferâ€. Biochemistry, 2001, 40, 12285-12291.	1.2	18
111	Structure and Enzymatic Properties of an Unusual Cysteine Tryptophylquinone-Dependent Glycine Oxidase from <i>Pseudoalteromonas luteoviolacea</i> . Biochemistry, 2018, 57, 1155-1165.	1.2	18
112	Evidence for two subclasses of methylamine dehydrogenases with distinct large subunits and conserved PQQ-bearing small subunits. FEMS Microbiology Letters, 1987, 44, 121-124.	0.7	17
113	Defining the Role of the Axial Ligand of the Type 1 Copper Site in Amicyanin by Replacement of Methionine with Leucine. Biochemistry, 2009, 48, 9174-9184.	1.2	17
114	The Tightly Bound Calcium of MauG Is Required for Tryptophan Tryptophylquinone Cofactor Biosynthesis. Biochemistry, 2011, 50, 144-150.	1.2	17
115	Roles of active site residues in LodA, a cysteine tryptophylquinone dependent ε-lysine oxidase. Archives of Biochemistry and Biophysics, 2015, 579, 26-32.	1.4	17
116	Site-Directed Mutagenesis of Proline 94 to Alanine in Amicyanin Converts a True Electron Transfer Reaction into One That Is Kinetically Coupledâ€. Biochemistry, 2005, 44, 7200-7206.	1.2	16
117	Effects of the loss of the axial tyrosine ligand of the lowâ€spin heme of MauG on its physical properties and reactivity. FEBS Letters, 2012, 586, 4339-4343.	1.3	16
118	Kinetic Model for the Regulation by Substrate of Intramolecular Electron Transfer in Trimethylamine Dehydrogenaseâ€. Biochemistry, 1996, 35, 2445-2452.	1.2	15
119	Active Site Aspartate Residues Are Critical for Tryptophan Tryptophylquinone Biogenesis in Methylamine Dehydrogenase. Journal of Biological Chemistry, 2005, 280, 17392-17396.	1.6	15
120	Site-Directed Mutagenesis of Proline 52 To Glycine in Amicyanin Converts a True Electron Transfer Reaction into One that Is Conformationally Gated,. Biochemistry, 2006, 45, 8284-8293.	1.2	15
121	Sodium-dependent α-aminoisobutyrate transport by the photosynthetic purple sulfur bacterium Chromatium vinosum. Archives of Biochemistry and Biophysics, 1982, 216, 306-313.	1.4	14
122	Gated and Ungated Electron Transfer Reactions from Aromatic Amine Dehydrogenase to Azurin. Journal of Biological Chemistry, 1999, 274, 29081-29086.	1.6	14
123	Electron transfer in crystals of the binary and ternary complexes of methylamine dehydrogenase with amicyanin and cytochrome c551i as detected by EPR spectroscopy. Journal of Biological Inorganic Chemistry, 2004, 9, 231-237.	1.1	14
124	The many faces of a proton. Nature Chemistry, 2011, 3, 662-663.	6.6	14
125	Carboxyl Group of Glu113 Is Required for Stabilization of the Diferrous and Bis-Fe <sup>IV</sup> States of MauG. Biochemistry, 2013, 52, 6358-6367.	1.2	14
126	Mechanism of protein oxidative damage that is coupled to long-range electron transfer to high-valent haems. Biochemical Journal, 2016, 473, 1769-1775.	1.7	14

#	Article	IF	CITATIONS
127	Diversity of structures and functions of oxo-bridged non-heme diiron proteins. Archives of Biochemistry and Biophysics, 2021, 705, 108917.	1.4	14
128	Lysozyme-Osmotic Shock Methods for Localization of Periplasmic Redox Proteins in Bacteria. Methods in Enzymology, 2002, 353, 121-130.	0.4	13
129	The ligand geometry of copper determines the stability of amicyanin. Archives of Biochemistry and Biophysics, 2005, 444, 27-33.	1.4	13
130	A Single Methionine Residue Dictates the Kinetic Mechanism of Interprotein Electron Transfer from Methylamine Dehydrogenase to Amicyanin <sup>,</sup> . Biochemistry, 2007, 46, 11137-11146.	1.2	13
131	Tryptophan tryptophylquinone biosynthesis: A radical approach to posttranslational modification. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2012, 1824, 1299-1305.	1.1	13
132	Roles of Conserved Residues of the Glycine Oxidase GoxA in Controlling Activity, Cooperativity, Subunit Composition, and Cysteine Tryptophylquinone Biosynthesis. Journal of Biological Chemistry, 2016, 291, 23199-23207.	1.6	13
133	Metabolomics reveals critical adrenergic regulatory checkpoints in glycolysis and pentose–phosphate pathways in embryonic heart. Journal of Biological Chemistry, 2018, 293, 6925-6941.	1.6	13
134	Energy-dependent sodium efflux and sodium-dependent α-aminoisobutyrate transport in purple photosynthetic bacteria. Archives of Biochemistry and Biophysics, 1981, 211, 234-239.	1.4	12
135	Apparent oxygen-dependent inhibition by superoxide dismutase of the quinoprotein methanol dehydrogenase. Biochemistry, 1992, 31, 1504-1508.	1.2	12
136	Factors affecting the stability of methanol dehydrogenase fromParacoccus denitrificans. FEMS Microbiology Letters, 1992, 94, 53-57.	0.7	12
137	Active-site residues are critical for the folding and stability of methylamine dehydrogenase. Protein Engineering, Design and Selection, 2001, 14, 675-681.	1.0	12
138	Crystallographic and NMR Investigation of Cobalt-Substituted Amicyanin,. Biochemistry, 2004, 43, 9381-9389.	1.2	12
139	Steadyâ€state kinetic mechanism of LodA, a novel cysteine tryptophylquinoneâ€dependent oxidase. FEBS Letters, 2014, 588, 752-756.	1.3	12
140	Localization of Periplasmic Redox Proteins of <i>Alcaligenes faecalis</i> by a Modified General Method for Fractionating Gram-Negative Bacteria. Journal of Bacteriology, 1999, 181, 6540-6542.	1.0	12
141	THE ELECTROCHEMICAL PROTON GRADIENT IN THE PHOTOSYNTHETIC PURPLE SULPHUR BACTERIUM CHROMATIUM VINOSUM. Photochemistry and Photobiology, 1982, 36, 551-558.	1.3	11
142	LIGHTâ€ÐEPENDENT ACTIVE TRANSPORT IN PROKARYOTES. Photochemistry and Photobiology, 1982, 36, 721-724.	1.3	11
143	Intramolecular Electron Transfer in Trimethylamine Dehydrogenase: A Thermodynamic Analysisâ€. Biochemistry, 1996, 35, 12111-12118.	1.2	11
144	Use of Indirect Site-directed Mutagenesis to Alter the Substrate Specificity of Methylamine Dehydrogenase. Journal of Biological Chemistry, 2002, 277, 4119-4122.	1.6	11

#	Article	IF	CITATIONS
145	Evidence for Substrate Activation of Electron Transfer from Methylamine Dehydrogenase to Amicyanin. Journal of the American Chemical Society, 2003, 125, 3224-3225.	6.6	11
146	Effects of Engineering Uphill Electron Transfer into the Methylamine Dehydrogenaseâ^'Amicyaninâ^'Cytochromec-551i Complexâ€. Biochemistry, 2003, 42, 1772-1776.	1.2	11
147	Use of the amicyanin signal sequence for efficient periplasmic expression in E. coli of a human antibody light chain variable domain. Protein Expression and Purification, 2015, 108, 9-12.	0.6	11
148	Site-Directed Mutagenesis of Gln103 Reveals the Influence of This Residue on the Redox Properties and Stability of MauG. Biochemistry, 2014, 53, 1342-1349.	1.2	10
149	Interaction of GoxA with Its Modifying Enzyme and Its Subunit Assembly Are Dependent on the Extent of Cysteine Tryptophylquinone Biosynthesis. Biochemistry, 2016, 55, 2305-2308.	1.2	10
150	Diversity of structures, catalytic mechanisms and processes of cofactor biosynthesis of tryptophylquinone-bearing enzymes. Archives of Biochemistry and Biophysics, 2018, 654, 40-46.	1.4	10
151	Methylamine dehydrogenase is a light-dependent oxidase. Biochimica Et Biophysica Acta - Bioenergetics, 1998, 1364, 297-300.	0.5	9
152	Correlation of Rhombic Distortion of the Type 1 Copper Site of M98Q Amicyanin with Increased Electron Transfer Reorganization Energy. Biochemistry, 2007, 46, 8561-8568.	1.2	9
153	Inhibition by cyclopropylamine of the quinoprotein methylamine dehydrogenase is mechanism-based and causes covalent crosslinking of .alpha. and .beta. subunits. Biochemistry, 1991, 30, 1924-1928.	1.2	8
154	Tyr30 of amicyanin is not critical for electron transfer to cytochrome c-551i: implications for predicting electron transfer pathways. Biochimica Et Biophysica Acta - Bioenergetics, 2000, 1457, 27-35.	0.5	8
155	MauG, a Diheme Enzyme Involved in the Synthesis of the Enzyme Cofactor, Tryptophan Tryptophylquinone. , 2016, , 1-30.		8
156	Crystal structure of a hemerythrin-like protein from <i>Mycobacterium kansasii</i> and homology model of the orthologous Rv2633c protein of <i>M. tuberculosis</i> . Biochemical Journal, 2020, 477, 567-581.	1.7	8
157	Preliminary X-ray crystallographic study of methanol dehydrogenase from Methylophilus methylotrophus. Journal of Molecular Biology, 1986, 191, 141-142.	2.0	7
158	Probing mechanisms of catalysis and electron transfer by methylamine dehydrogenase by site-directed mutagenesis of αPhe55. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2003, 1647, 230-233.	1.1	7
159	The axial ligand and extent of protein folding determine whether Zn or Cu binds to amicyanin. Journal of Inorganic Biochemistry, 2008, 102, 342-346.	1.5	7
160	Proline 96 of the Copper Ligand Loop of Amicyanin Regulates Electron Transfer from Methylamine Dehydrogenase by Positioning Other Residues at the Proteinâ^'Protein Interface. Biochemistry, 2011, 50, 1265-1273.	1.2	7
161	Mutation of Trp93 of MauG to tyrosine causes loss of bound Ca2+ and alters the kinetic mechanism of tryptophan tryptophylquinone cofactor biosynthesis. Biochemical Journal, 2013, 456, 129-137.	1.7	7
162	The sole tryptophan of amicyanin enhances its thermal stability but does not influence the electronic properties of the type 1 copper site. Archives of Biochemistry and Biophysics, 2014, 550-551, 20-27.	1.4	7

#	Article	IF	CITATIONS
163	Roles of Copper and a Conserved Aspartic Acid in the Autocatalytic Hydroxylation of a Specific Tryptophan Residue during Cysteine Tryptophylquinone Biogenesis. Biochemistry, 2017, 56, 997-1004.	1.2	7
164	Methylamine Dehydrogenase Structure and Function of Electron Transfer Complexes. Sub-Cellular Biochemistry, 2000, 35, 119-143.	1.0	6
165	MauG, a diheme enzyme that catalyzes tryptophan tryptophylquinone biosynthesis by remote catalysis. Archives of Biochemistry and Biophysics, 2014, 544, 112-118.	1.4	6
166	A Suicide Mutation Affecting Proton Transfers to High-Valent Hemes Causes Inactivation of MauG during Catalysis. Biochemistry, 2016, 55, 5738-5745.	1.2	6
167	Structures of MauG in complex with quinol and quinone MADH. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 738-743.	0.7	5
168	Factors affecting the stability of methanol dehydrogenase from Paracoccus denitrificans. FEMS Microbiology Letters, 1992, 94, 53-57.	0.7	5
169	Crystallization and preliminary X-ray crystallographic study of the quinoprotein methanol dehydrogenase from bacterium W3A1. FEBS Letters, 1989, 258, 175-176.	1.3	4
170	Inhibition by trimethylamine of methylamine oxidation by Paracoccus denitrificans and bacterium W3A1. Biochimica Et Biophysica Acta - Bioenergetics, 1990, 1016, 339-343.	0.5	4
171	Mechanisms of Catalysis and Electron Transfer by Tryptophan Tryptophylquinone Enzymes. Progress in Reaction Kinetics and Mechanism, 2002, 27, 209-241.	1.1	4
172	Replacement of the axial copper ligand methionine with lysine in amicyanin converts it to a zinc-binding protein that no longer binds copper. Journal of Inorganic Biochemistry, 2011, 105, 1638-1644.	1.5	4
173	A T67A mutation in the proximal pocket of the high-spin heme of MauG stabilizes formation of a mixed-valent FeII/FeIII state and enhances charge resonance stabilization of the bis-FeIV state. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 709-716.	0.5	4
174	Structural and Spectroscopic Characterization of a Product Schiff Base Intermediate in the Reaction of the Quinoprotein Glycine Oxidase, GoxA. Biochemistry, 2019, 58, 706-713.	1.2	4
175	Catalysis and Long-Range Electron Transfer by Quinoproteins. ACS Symposium Series, 1992, , 1-9.	0.5	3
176	Reaction mechanism for the inactivation of the quinoprotein methylamine dehydrogenase by phenylhydrazine. BBA - Proteins and Proteomics, 1995, 1252, 146-150.	2.1	3
177	Reaction products and intermediates of tryptophan tryptophylquinone enzymes. Journal of Molecular Catalysis B: Enzymatic, 2000, 8, 69-83.	1.8	3
178	Protein-Derived Cofactors. , 2010, , 675-710.		3
179	A Trp199Glu MauG variant reveals a role for Trp199 interactions with preâ€methylamine dehydrogenase during tryptophan tryptophylquinone biosynthesis. FEBS Letters, 2013, 587, 1736-1741.	1.3	3
180	The Redox Properties of a Cysteine Tryptophylquinone-Dependent Glycine Oxidase Are Distinct from Those of Tryptophylquinone-Dependent Dehydrogenases. Biochemistry, 2019, 58, 2243-2249.	1.2	3

#	Article	IF	CITATIONS
181	Characterization of PlGoxB, a flavoprotein required for cysteine tryptophylquinone biosynthesis in glycine oxidase from Pseudoalteromonas luteoviolacea. Archives of Biochemistry and Biophysics, 2019, 674, 108110.	1.4	3
182	Structure, Function, And Applications of Tryptophan Tryptophylquinone Enzymes. Advances in Experimental Medicine and Biology, 1999, 467, 587-595.	0.8	3
183	Redox properties of an engineered purple CuA azurin. Archives of Biochemistry and Biophysics, 2002, 404, 158-162.	1.4	2
184	A simple method to engineer a protein-derived redox cofactor for catalysis. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1595-1601.	0.5	2
185	Characterization of the free energy dependence of an interprotein electron transfer reaction by variation of pH and site-directed mutagenesis. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 1181-1186.	0.5	2
186	Ascorbate protects the diheme enzyme, MauG, against self-inflicted oxidative damage by an unusual antioxidant mechanism. Biochemical Journal, 2017, 474, 2563-2572.	1.7	2
187	In Silico Approaches to Identify Mutagenesis Targets to Probe and Alter Protein–Cofactor and Protein–Protein Functional Relationships. Methods in Molecular Biology, 2017, 1498, 181-190.	0.4	2
188	Kinetic and structural evidence that Asp-678 plays multiple roles in catalysis by the quinoprotein glycine oxidase. Journal of Biological Chemistry, 2019, 294, 17463-17470.	1.6	2
189	Protein-Derived Cofactors. , 2020, , 40-57.		2
190	Correlation of Conservation of Sequence and Structures of Mycobacterial Hemerythrin-like Proteins with Evolutionary Relationship and Host Pathogenicity. ACS Omega, 2020, 5, 23385-23392.	1.6	2
191	Roles of active-site residues in catalysis, substrate binding, cooperativity, and the reaction mechanism of the quinoprotein glycine oxidase. Journal of Biological Chemistry, 2020, 295, 6472-6481.	1.6	2
192	The hemerythrin-like diiron protein from Mycobacterium kansasii is a nitric oxide peroxidase. Journal of Biological Chemistry, 2022, , 101696.	1.6	2
193	Substitution of the sole tryptophan of the cupredoxin, amicyanin, with 5-hydroxytryptophan alters fluorescence properties and energy transfer to the type 1 copper site. Journal of Inorganic Biochemistry, 2022, 234, 111895.	1.5	2
194	Inter-subunit cross-linking of methylamine dehydrogenase by cyclopropylamine requires residue αPhe55. FEBS Letters, 2002, 517, 172-174.	1.3	1
195	Quinone Cofactors. , 2013, , 2166-2168.		1
196	Converting the bis-FeIV state of the diheme enzyme MauG to Compound I decreases the reorganization energy for electron transfer. Biochemical Journal, 2016, 473, 67-72.	1.7	1
197	Properties of the highâ€spin heme of MauG are altered by binding of preMADH at the protein surface 40 Ã away. FEBS Letters, 2017, 591, 1566-1572.	1.3	1
198	Analytical Methods for Assessing the Effects of Site-Directed Mutagenesis on Protein–Cofactor and Protein–Protein Functional Relationships. Methods in Molecular Biology, 2017, 1498, 421-438.	0.4	1

#	Article	IF	CITATIONS
199	Methylamine Dehydrogenase: Structure and Function of Electron Transfer Complexes. Biochemical Society Transactions, 1999, 27, A30-A30.	1.6	0
200	Gated Electron Transfer. , 2013, , 886-888.		0
201	Tryptophan Tryptophylquinone Enzymes: Structure and Function. , 2000, , 197-202.		Ο
202	Quinone Cofactors. , 2018, , 1-4.		0
203	Coupled Electron Transfer. , 2018, , 1-3.		Ο
204	Electron Transfer Theory. , 2018, , 1-5.		0