

Judith P Klinman

List of Publications by Year in descending order

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261
papers

17,409
citations

11608

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16605

123
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289
docs citations

289
times ranked

10759
citing authors

#	ARTICLE	IF	CITATIONS
1	Ribosomally synthesized and post-translationally modified peptide natural products: overview and recommendations for a universal nomenclature. <i>Natural Product Reports</i> , 2013, 30, 108-160.	5.2	1,692
2	Mechanisms Whereby Mononuclear Copper Proteins Functionalize Organic Substrates. <i>Chemical Reviews</i> , 1996, 96, 2541-2562.	23.0	831
3	Enzyme dynamics and hydrogen tunnelling in a thermophilic alcohol dehydrogenase. <i>Nature</i> , 1999, 399, 496-499.	13.7	568
4	Temperature-Dependent Isotope Effects in Soybean Lipoxygenase-1: Correlating Hydrogen Tunneling with Protein Dynamics. <i>Journal of the American Chemical Society</i> , 2002, 124, 3865-3874.	6.6	466
5	Recommendations for performing, interpreting and reporting hydrogen deuterium exchange mass spectrometry (HDX-MS) experiments. <i>Nature Methods</i> , 2019, 16, 595-602.	9.0	452
6	Enzyme Catalysis: Beyond Classical Paradigms. <i>Accounts of Chemical Research</i> , 1998, 31, 397-404.	7.6	360
7	The Copper-Enzyme Family of Dopamine β -Monooxygenase and Peptidylglycine β -Hydroxylating Monooxygenase: Resolving the Chemical Pathway for Substrate Hydroxylation. <i>Journal of Biological Chemistry</i> , 2006, 281, 3013-3016.	1.6	336
8	Quinoenzymes in Biology. <i>Annual Review of Biochemistry</i> , 1994, 63, 299-344.	5.0	328
9	Tunneling and Dynamics in Enzymatic Hydride Transfer. <i>Chemical Reviews</i> , 2006, 106, 3095-3118.	23.0	299
10	Hydrogen Tunneling Links Protein Dynamics to Enzyme Catalysis. <i>Annual Review of Biochemistry</i> , 2013, 82, 471-496.	5.0	273
11	A 21st century revisionist's view at a turning point in enzymology. <i>Nature Chemical Biology</i> , 2009, 5, 543-550.	3.9	269
12	Environmentally coupled hydrogen tunneling. <i>FEBS Journal</i> , 2002, 269, 3113-3121.	0.2	261
13	Dopamine Beta-Hydroxylase of Adrenal Chromaffin Granules: Structure and Function. <i>Annual Review of Biochemistry</i> , 1988, 57, 551-590.	5.0	241
14	Catalytic Mechanism of the Topa Quinone Containing Copper Amine Oxidases. <i>Biochemistry</i> , 2002, 41, 9269-9278.	1.2	229
15	Hydrogen tunneling in biology. <i>Chemistry and Biology</i> , 1999, 6, R191-R198.	6.2	210
16	Copper amine oxidase from <i>Hansenula polymorpha</i> : the crystal structure determined at 2.4 Å resolution reveals the active conformation. <i>Structure</i> , 1998, 6, 293-307.	1.6	191
17	Experimental Evidence for Extensive Tunneling of Hydrogen in the Lipoxygenase Reaction: Implications for Enzyme Catalysis. <i>Journal of the American Chemical Society</i> , 1996, 118, 10319-10320.	6.6	180
18	Nature of Hydrogen Transfer in Soybean Lipoxygenase 1: Separation of Primary and Secondary Isotope Effects. <i>Biochemistry</i> , 1999, 38, 12218-12228.	1.2	180

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19	Nature of Rate-Limiting Steps in the Soybean Lipoxygenase-1 Reaction. <i>Biochemistry</i> , 1995, 34, 14077-14092.	1.2	172
20	Catalysis of electron transfer during activation of O ₂ by the flavoprotein glucose oxidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 62-67.	3.3	169
21	Evidence That Dioxygen and Substrate Activation Are Tightly Coupled in Dopamine β -Monooxygenase. <i>Journal of Biological Chemistry</i> , 2003, 278, 49691-49698.	1.6	162
22	Intrigues and Intricacies of the Biosynthetic Pathways for the Enzymatic Quinocofactors: PQQ, TTQ, CTQ, TPQ, and LTQ. <i>Chemical Reviews</i> , 2014, 114, 4343-4365.	23.0	160
23	Extremely Large Isotope Effects in the Soybean Lipoxygenase-Linoleic Acid Reaction. <i>Journal of the American Chemical Society</i> , 1994, 116, 793-794.	6.6	156
24	Unmasking of hydrogen tunneling in the horse liver alcohol dehydrogenase reaction by site-directed mutagenesis. <i>Biochemistry</i> , 1993, 32, 5503-5507.	1.2	153
25	Enzyme structure and dynamics affect hydrogen tunneling: The impact of a remote side chain (I553) in soybean lipoxygenase-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1146-1151.	3.3	151
26	How Large Should the QM Region Be in QM/MM Calculations? The Case of Catechol <i>o</i> -Methyltransferase. <i>Journal of Physical Chemistry B</i> , 2016, 120, 11381-11394.	1.2	150
27	Synthesis and spectroscopic characterization of model compounds for the active site cofactor in copper amine oxidases. <i>Journal of the American Chemical Society</i> , 1993, 115, 7117-7127.	6.6	145
28	Probing the Mechanism of Proton Coupled Electron Transfer to Dioxygen: The Oxidative Half-Reaction of Bovine Serum Amine Oxidase. <i>Biochemistry</i> , 1998, 37, 12513-12525.	1.2	141
29	Lipoxygenase Reaction Mechanism: A Demonstration That Hydrogen Abstraction from Substrate Precedes Dioxygen Binding during Catalytic Turnover. <i>Biochemistry</i> , 1996, 35, 12882-12892.	1.2	139
30	How Do Enzymes Activate Oxygen without Inactivating Themselves?. <i>Accounts of Chemical Research</i> , 2007, 40, 325-333.	7.6	136
31	Thermal-activated protein mobility and its correlation with catalysis in thermophilic alcohol dehydrogenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 9556-9561.	3.3	134
32	Evidence that both protium and deuterium undergo significant tunneling in the reaction catalyzed by bovine serum amine oxidase. <i>Biochemistry</i> , 1989, 28, 6597-6605.	1.2	131
33	Oxygen-18 kinetic isotope effects in the dopamine β -monooxygenase reaction: Evidence for a new chemical mechanism in non-heme, metallomonooxygenase. <i>Biochemistry</i> , 1994, 33, 226-234.	1.2	123
34	Hydrogen Tunneling in Peptidylglycine β -Hydroxylating Monooxygenase. <i>Journal of the American Chemical Society</i> , 2002, 124, 8194-8195.	6.6	122
35	Model Studies of Topaquinone-Dependent Amine Oxidases. 2. Characterization of Reaction Intermediates and Mechanism. <i>Journal of the American Chemical Society</i> , 1995, 117, 8707-8718.	6.6	119
36	An integrated model for enzyme catalysis emerges from studies of hydrogen tunneling. <i>Chemical Physics Letters</i> , 2009, 471, 179-193.	1.2	114

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37	Copper Amine Oxidase: Heterologous Expression, Purification, and Characterization of An Active Enzyme in <i>Saccharomyces cerevisiae</i> . <i>Biochemistry</i> , 1994, 33, 7647-7653.	1.2	113
38	Kinetic Studies of Oxygen Reactivity in Soybean Lipoxygenase-1. <i>Biochemistry</i> , 2003, 42, 11466-11475.	1.2	112
39	The Mechanism of Enzyme-catalyzed Reduced Nicotinamide Adenine Dinucleotide-dependent Reductions. <i>Journal of Biological Chemistry</i> , 1972, 247, 7977-7987.	1.6	109
40	Update 1 of: Tunneling and Dynamics in Enzymatic Hydride Transfer. <i>Chemical Reviews</i> , 2010, 110, PR41-PR67.	23.0	108
41	Model Studies of Topaquinone-Dependent Amine Oxidases. 1. Oxidation of Benzylamine by Topaquinone Analogs. <i>Journal of the American Chemical Society</i> , 1995, 117, 8698-8706.	6.6	107
42	Steric Control of Oxygenation Regiochemistry in Soybean Lipoxygenase-1. <i>Journal of the American Chemical Society</i> , 2001, 123, 2931-2932.	6.6	103
43	Distribution and Properties of the Genes Encoding the Biosynthesis of the Bacterial Cofactor, Pyrroloquinoline Quinone. <i>Biochemistry</i> , 2012, 51, 2265-2275.	1.2	103
44	Effects of Protein Glycosylation on Catalysis: Changes in Hydrogen Tunneling and Enthalpy of Activation in the Glucose Oxidase Reaction. <i>Biochemistry</i> , 1997, 36, 2603-2611.	1.2	102
45	Oxygen Isotope Effects on Electron Transfer to O ₂ Probed Using Chemically Modified Flavins Bound to Glucose Oxidase. <i>Journal of the American Chemical Society</i> , 2004, 126, 15120-15131.	6.6	101
46	Isotope effects and structure-reactivity correlations in the yeast alcohol dehydrogenase reaction. A study of the enzyme-catalyzed oxidation of aromatic alcohols. <i>Biochemistry</i> , 1976, 15, 2018-2026.	1.2	99
47	Demonstration That the Radical S-Adenosylmethionine (SAM) Enzyme PqqE Catalyzes de Novo Carbon-Carbon Cross-linking within a Peptide Substrate PqqA in the Presence of the Peptide Chaperone PqqD. <i>Journal of Biological Chemistry</i> , 2016, 291, 8877-8884.	1.6	98
48	Understanding Biological Hydrogen Transfer Through the Lens of Temperature Dependent Kinetic Isotope Effects. <i>Accounts of Chemical Research</i> , 2018, 51, 1966-1974.	7.6	88
49	Mechanism of modulation of dopamine .beta.-monoxygenase by pH and fumarate as deduced from initial rate and primary deuterium isotope effect studies. <i>Biochemistry</i> , 1983, 22, 3096-3106.	1.2	86
50	New Quinocofactors in Eukaryotes. <i>Journal of Biological Chemistry</i> , 1996, 271, 27189-27192.	1.6	86
51	Protein Flexibility Correlates with Degree of Hydrogen Tunneling in Thermophilic and Mesophilic Alcohol Dehydrogenases. <i>Journal of the American Chemical Society</i> , 2000, 122, 10738-10739.	6.6	86
52	Hydrogen tunneling in the flavoenzyme monoamine oxidase B. <i>Biochemistry</i> , 1994, 33, 14871-14878.	1.2	85
53	Nature of Oxygen Activation in Glucose Oxidase from <i>Aspergillus niger</i> : The Importance of Electrostatic Stabilization in Superoxide Formation. <i>Biochemistry</i> , 1999, 38, 8572-8581.	1.2	85
54	The nature of O ₂ activation by the ethylene-forming enzyme 1-aminocyclopropane-1-carboxylic acid oxidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1814-1819.	3.3	85

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55	Kinetic Mechanism and Intrinsic Isotope Effects for the Peptidylglycine β -Amidating Enzyme Reaction. <i>Biochemistry</i> , 1998, 37, 8244-8252.	1.2	84
56	Evidence Against Reduction of Cu ²⁺ to Cu ⁺ during Dioxygen Activation in a Copper Amine Oxidase from Yeast. <i>Journal of the American Chemical Society</i> , 2000, 122, 9897-9904.	6.6	84
57	Pyroloquinoline Quinone Biogenesis: Demonstration That PqqE from <i>Klebsiella pneumoniae</i> Is a Radical S-Adenosyl-methionine Enzyme. <i>Biochemistry</i> , 2009, 48, 10151-10161.	1.2	84
58	Extremely Elevated Room-Temperature Kinetic Isotope Effects Quantify the Critical Role of Barrier Width in Enzymatic C-H Activation. <i>Journal of the American Chemical Society</i> , 2014, 136, 8157-8160.	6.6	83
59	Dynamically Achieved Active Site Precision in Enzyme Catalysis. <i>Accounts of Chemical Research</i> , 2015, 48, 449-456.	7.6	82
60	Liver Alcohol Dehydrogenase. <i>Critical Reviews in Biochemistry</i> , 1986, 21, 349-389.	7.5	79
61	[14] Hydrogen tunneling in enzyme catalysis. <i>Methods in Enzymology</i> , 1995, 249, 373-397.	0.4	79
62	Modeling temperature dependent kinetic isotope effects for hydrogen transfer in a series of soybean lipoxygenase mutants: The effect of anharmonicity upon transfer distance. <i>Chemical Physics</i> , 2005, 319, 283-296.	0.9	79
63	The multi-functional topa-quinone copper amine oxidases. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2003, 1647, 131-137.	1.1	78
64	Enzymatic Methyl Transfer: Role of an Active Site Residue in Generating Active Site Compaction That Correlates with Catalytic Efficiency. <i>Journal of the American Chemical Society</i> , 2011, 133, 17134-17137.	6.6	78
65	Exploring Molecular Oxygen Pathways in <i>Hansenula polymorpha</i> Copper-containing Amine Oxidase. <i>Journal of Biological Chemistry</i> , 2007, 282, 17767-17776.	1.6	76
66	Oxygen-18 Kinetic Isotope Effect Studies of the Tyrosine Hydroxylase Reaction: Evidence of Rate Limiting Oxygen Activation. <i>Journal of the American Chemical Society</i> , 1998, 120, 4057-4062.	6.6	75
67	Life as aerobes: are there simple rules for activation of dioxygen by enzymes?. <i>Journal of Biological Inorganic Chemistry</i> , 2001, 6, 1-13.	1.1	75
68	Mechanism of post-translational quinone formation in copper amine oxidases and its relationship to the catalytic turnover. <i>Archives of Biochemistry and Biophysics</i> , 2005, 433, 255-265.	1.4	75
69	Investigation of Spectroscopic Intermediates during Copper-Binding and TPQ Formation in Wild-Type and Active-Site Mutants of a Copper-Containing Amine Oxidase from Yeast. <i>Biochemistry</i> , 2000, 39, 3690-3698.	1.2	74
70	Quinone biogenesis: Structure and mechanism of PqqC, the final catalyst in the production of pyrroloquinoline quinone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 7913-7918.	3.3	74
71	Linking protein structure and dynamics to catalysis: the role of hydrogen tunnelling. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006, 361, 1323-1331.	1.8	74
72	Kinetic Analysis of Oxygen Utilization during Cofactor Biogenesis in a Copper-Containing Amine Oxidase from Yeast. <i>Biochemistry</i> , 2000, 39, 3699-3707.	1.2	73

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73	PqqD Is a Novel Peptide Chaperone That Forms a Ternary Complex with the Radical S-Adenosylmethionine Protein PqqE in the Pyrroloquinoline Quinone Biosynthetic Pathway. <i>Journal of Biological Chemistry</i> , 2015, 290, 12908-12918.	1.6	72
74	Computational Study of Tunneling and Coupled Motion in Alcohol Dehydrogenase-Catalyzed Reactions: A Implication for Measured Hydrogen and Carbon Isotope Effects. <i>Journal of the American Chemical Society</i> , 1999, 121, 1997-2006.	6.6	71
75	The Role of Copper in Topa Quinone Biogenesis and Catalysis, as Probed by Azide Inhibition of a Copper Amine Oxidase from Yeast. <i>Biochemistry</i> , 2001, 40, 2954-2963.	1.2	71
76	Correlation of copper valency with product formation in single turnovers of dopamine .beta.-monooxygenase. <i>Biochemistry</i> , 1989, 28, 4664-4670.	1.2	69
77	Crystal Structure and Amide H/D Exchange of Binary Complexes of Alcohol Dehydrogenase from <i>Bacillus stearothermophilus</i> : A Insight into Thermostability and Cofactor Binding. <i>Biochemistry</i> , 2004, 43, 5266-5277.	1.2	69
78	Magnitude of intrinsic isotope effects in the dopamine .beta.-monooxygenase reaction. <i>Biochemistry</i> , 1983, 22, 3091-3096.	1.2	67
79	Oxygen and Hydrogen Isotope Effects in an Active Site Tyrosine to Phenylalanine Mutant of Peptidylglycine Î±-Hydroxylating Monooxygenase: A Mechanistic Implications. <i>Biochemistry</i> , 2003, 42, 1813-1819.	1.2	67
80	Transition-state structure in the yeast alcohol dehydrogenase reaction: the magnitude of solvent and .alpha.-secondary hydrogen isotope effects. <i>Biochemistry</i> , 1980, 19, 2005-2016.	1.2	66
81	Mediation of donor-acceptor distance in an enzymatic methyl transfer reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7954-7959.	3.3	65
82	Calculation of substrate dissociation constants from steady-state isotope effects in enzyme-catalyzed reactions. <i>Journal of the American Chemical Society</i> , 1985, 107, 1058-1060.	6.6	64
83	Discrimination between ¹⁶ O and ¹⁸ O in oxygen binding to the reversible oxygen carriers hemoglobin, myoglobin, hemerythrin, and hemocyanin: a new probe for oxygen binding and reductive activation by proteins. <i>Journal of the American Chemical Society</i> , 1993, 115, 8891-8897.	6.6	64
84	Evidence for Increased Local Flexibility in Psychrophilic Alcohol Dehydrogenase Relative to Its Thermophilic Homologue. <i>Biochemistry</i> , 2004, 43, 14676-14683.	1.2	62
85	The role of tunneling in enzyme catalysis of C-H activation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 981-987.	0.5	62
86	Mechanistic Comparison of the Cobalt-Substituted and Wild-Type Copper Amine Oxidase from <i>Hansenula polymorpha</i> . <i>Biochemistry</i> , 2002, 41, 10577-10584.	1.2	61
87	Galactose Oxidase as a Model for Reactivity at a Copper Superoxide Center. <i>Journal of the American Chemical Society</i> , 2009, 131, 4657-4663.	6.6	61
88	Impaired protein conformational landscapes as revealed in anomalous Arrhenius prefactors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10520-10525.	3.3	60
89	Synthesis and Characterization of Model Compounds of the Lysine Tyrosyl Quinone Cofactor of Lysyl Oxidase. <i>Journal of the American Chemical Society</i> , 2003, 125, 6113-6125.	6.6	59
90	Investigation of the Pathway for Inter-Copper Electron Transfer in Peptidylglycine Î±-Amidating Monooxygenase. <i>Journal of the American Chemical Society</i> , 2004, 126, 13168-13169.	6.6	58

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91	Importance of Protein Dynamics during Enzymatic C-H Bond Cleavage Catalysis. <i>Biochemistry</i> , 2013, 52, 2068-2077.	1.2	56
92	Origins of Enzyme Catalysis: Experimental Findings for C-H Activation, New Models, and Their Relevance to Prevailing Theoretical Constructs. <i>Journal of the American Chemical Society</i> , 2017, 139, 18409-18427.	6.6	56
93	Evolutionary Aspects of Enzyme Dynamics. <i>Journal of Biological Chemistry</i> , 2014, 289, 30205-30212.	1.6	55
94	Hydrogen-Deuterium Exchange of Lipoxygenase Uncovers a Relationship between Distal, Solvent Exposed Protein Motions and the Thermal Activation Barrier for Catalytic Proton-Coupled Electron Tunneling. <i>ACS Central Science</i> , 2017, 3, 570-579.	5.3	55
95	Mutation of a Strictly Conserved, Active-Site Residue Alters Substrate Specificity and Cofactor Biogenesis in a Copper Amine Oxidase. <i>Biochemistry</i> , 1999, 38, 3683-3693.	1.2	52
96	¹⁸ O Kinetic Isotope Effects in Non-Heme Iron Enzymes: Probing the Nature of Fe/O ₂ Intermediates. <i>Journal of the American Chemical Society</i> , 2008, 130, 8122-8123.	6.6	51
97	The Structure of a Biosynthetic Intermediate of Pyrroloquinoline Quinone (PQQ) and Elucidation of the Final Step of PQQ Biosynthesis. <i>Journal of the American Chemical Society</i> , 2004, 126, 5342-5343.	6.6	50
98	Crystal Structure at 2.5 Å... Resolution of Zinc-Substituted Copper Amine Oxidase of <i>Hansenula polymorpha</i> Expressed in <i>Escherichia coli</i> . <i>Biochemistry</i> , 2000, 39, 9709-9717.	1.2	49
99	Binding of Dioxygen to Non-Metal Sites in Proteins: Exploration of the Importance of Binding Site Size versus Hydrophobicity in the Copper Amine Oxidase from <i>Hansenula polymorpha</i> . <i>Biochemistry</i> , 2002, 41, 13637-13643.	1.2	49
100	Enhanced Rigidification within a Double Mutant of Soybean Lipoxygenase Provides Experimental Support for Vibronically Nonadiabatic Proton-Coupled Electron Transfer Models. <i>ACS Catalysis</i> , 2017, 7, 3569-3574.	5.5	49
101	Rapid freeze and chemical-quench studies of dopamine .beta.-monooxygenase: comparison of pre-steady-state and steady-state parameters. <i>Biochemistry</i> , 1989, 28, 4656-4664.	1.2	47
102	Characterization of the Native Lysine Tyrosylquinone Cofactor in Lysyl Oxidase by Raman Spectroscopy. <i>Journal of Biological Chemistry</i> , 1997, 272, 28841-28844.	1.6	47
103	Comparison of Rates and Kinetic Isotope Effects Using PEG-Modified Variants and Glycoforms of Glucose Oxidase: The Relationship of Modification of the Protein Envelope to C-H Activation and Tunneling. <i>Biochemistry</i> , 2002, 41, 8747-8758.	1.2	47
104	Impact of Protein Flexibility on Hydride-Transfer Parameters in Thermophilic and Psychrophilic Alcohol Dehydrogenases. <i>Journal of the American Chemical Society</i> , 2004, 126, 9500-9501.	6.6	47
105	¹³ C ENDOR Spectroscopy of Lipoxygenase-Substrate Complexes Reveals the Structural Basis for C-H Activation by Tunneling. <i>Journal of the American Chemical Society</i> , 2017, 139, 1984-1997.	6.6	47
106	Probes of Hydrogen Tunneling with Horse Liver Alcohol Dehydrogenase at Subzero Temperatures. <i>Biochemistry</i> , 2001, 40, 2303-2311.	1.2	46
107	The zinc content of yeast alcohol dehydrogenase. <i>Biochemical and Biophysical Research Communications</i> , 1976, 70, 878-884.	1.0	44
108	Structure and Hydride Transfer Mechanism of a Moderate Thermophilic Dihydrofolate Reductase from <i>Bacillus stearothermophilus</i> and Comparison to Its Mesophilic and Hyperthermophilic Homologues. <i>Biochemistry</i> , 2005, 44, 11428-11439.	1.2	44

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109	A new model for the origin of kinetic hydrogen isotope effects. <i>Journal of Physical Organic Chemistry</i> , 2010, 23, 606-612.	0.9	44
110	Stereochemistry and kinetic isotope effects in the bovine plasma amine oxidase catalyzed oxidation of dopamine. <i>Biochemistry</i> , 1979, 18, 1969-1979.	1.2	43
111	Interaction of PqqE and PqqD in the pyrroloquinoline quinone (PQQ) biosynthetic pathway links PqqD to the radical SAM superfamily. <i>Chemical Communications</i> , 2010, 46, 7031.	2.2	43
112	Relationship between Conserved Consensus Site Residues and the Productive Conformation for the TPQ Cofactor in a Copper-Containing Amine Oxidase from Yeast. <i>Biochemistry</i> , 1998, 37, 16591-16600.	1.2	41
113	The Catalytic Function of Bovine Lysyl Oxidase in the Absence of Copper. <i>Journal of Biological Chemistry</i> , 2001, 276, 30575-30578.	1.6	40
114	Implication for Functions of the Ectopic Adipocyte Copper Amine Oxidase (AOC3) from Purified Enzyme and Cell-Based Kinetic Studies. <i>PLoS ONE</i> , 2012, 7, e29270.	1.1	40
115	Trihydroxyphenylalanine quinone (TPQ) from copper amine oxidases and lysyl tyrosylquinone (LTQ) from lysyl oxidase. <i>Advances in Protein Chemistry</i> , 2001, 58, 141-174.	4.4	39
116	Nuclear Magnetic Resonance Structure and Binding Studies of PqqD, a Chaperone Required in the Biosynthesis of the Bacterial Dehydrogenase Cofactor Pyrroloquinoline Quinone. <i>Biochemistry</i> , 2017, 56, 2735-2746.	1.2	39
117	Steady-State Kinetics of Substrate Binding and Iron Release in Tomato ACC Oxidase. <i>Biochemistry</i> , 2001, 40, 9717-9724.	1.2	38
118	Oxygen Kinetic Isotope Effects in Soluble Methane Monooxygenase. <i>Journal of Biological Chemistry</i> , 2001, 276, 4549-4553.	1.6	38
119	The Catalytic Role of the Copper Ligand H172 of Peptidylglycine β -Hydroxylating Monooxygenase: A Kinetic Study of the H172A Mutant. <i>Biochemistry</i> , 2006, 45, 15419-15429.	1.2	38
120	Identification of a Long-range Protein Network That Modulates Active Site Dynamics in Extremophilic Alcohol Dehydrogenases. <i>Journal of Biological Chemistry</i> , 2013, 288, 14087-14097.	1.6	38
121	Temperature dependence of protein motions in a thermophilic dihydrofolate reductase and its relationship to catalytic efficiency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10074-10079.	3.3	37
122	Kinetic and Structural Analysis of Substrate Specificity in Two Copper Amine Oxidases from <i>Hansenula polymorpha</i> . <i>Biochemistry</i> , 2010, 49, 2540-2550.	1.2	36
123	Investigating Inner-Sphere Reorganization via Secondary Kinetic Isotope Effects in the C-H Cleavage Reaction Catalyzed by Soybean Lipoxygenase: Tunneling in the Substrate Backbone as Well as the Transferred Hydrogen. <i>Journal of the American Chemical Society</i> , 2011, 133, 430-439.	6.6	35
124	Active Site Hydrophobic Residues Impact Hydrogen Tunneling Differently in a Thermophilic Alcohol Dehydrogenase at Optimal versus Nonoptimal Temperatures. <i>Biochemistry</i> , 2012, 51, 4147-4156.	1.2	33
125	Oxygen-18 Kinetic Isotope Effects of Nonheme Iron Enzymes HEPD and MPnS Support Iron(III) Superoxide as the Hydrogen Abstraction Species. <i>Journal of the American Chemical Society</i> , 2015, 137, 10448-10451.	6.6	33
126	Control of the Position of Oxygen Delivery in Soybean Lipoxygenase-1 by Amino Acid Side Chains within a Gas Migration Channel. <i>Journal of Biological Chemistry</i> , 2016, 291, 9052-9059.	1.6	33

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127	Experimental Evidence for Hydrogen Tunneling when the Isotopic Arrhenius Prefactor (AH/AD) is Unity. <i>Journal of the American Chemical Society</i> , 2008, 130, 17632-17633.	6.6	32
128	Multistep, Eight-Electron Oxidation Catalyzed by the Cofactorless Oxidase, PqqC: Identification of Chemical Intermediates and Their Dependence on Molecular Oxygen. <i>Biochemistry</i> , 2013, 52, 4667-4675.	1.2	31
129	X-ray and EPR Characterization of the Auxiliary Fe-S Clusters in the Radical SAM Enzyme PqqE. <i>Biochemistry</i> , 2018, 57, 1306-1315.	1.2	31
130	Mechanism of the aconitate isomerase reaction. <i>Biochemistry</i> , 1971, 10, 2259-2266.	1.2	30
131	Effect of Metal on 2,4,5-Trihydroxyphenylalanine (Topa) Quinone Biogenesis in the <i>Hansenula polymorpha</i> Copper Amine Oxidase. <i>Journal of Biological Chemistry</i> , 1997, 272, 19277-19281.	1.6	30
132	Pathway for the Stereocontrolled Production of $\hat{1}\pm, \hat{1}\pm$ -Difluorine-Substituted Phenyl Butenoates. <i>Journal of Organic Chemistry</i> , 2006, 71, 8618-8621.	1.7	30
133	Partial Conversion of <i>Hansenula polymorpha</i> Amine Oxidase into a $\hat{1}\pm$ -Plant Amine Oxidase: Implications for Copper Chemistry and Mechanism. <i>Biochemistry</i> , 2007, 46, 10817-10827.	1.2	29
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