

# Judith P Klinman

## List of Publications by Year in descending order

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261  
papers

17,409  
citations

11608

70  
h-index

16605

123  
g-index

289  
all docs

289  
docs citations

289  
times ranked

10759  
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein function   Kinetic Isotope Effects. , 2021, , 44-51.		0
2	Identification of Thermal Conduits That Link the Proteinâ€™Water Interface to the Active Site Loop and Catalytic Base in Enolase. <i>Journal of the American Chemical Society</i> , 2021, 143, 785-797.	6.6	15
3	Emerging Experimental Probes for the Spatial and Temporal Resolution of Protein Dynamics in Enzyme Catalysis. <i>Biophysical Journal</i> , 2021, 120, 100a.	0.2	0
4	Hydrogenâ€™Deuterium Exchange within Adenosine Deaminase, a TIM Barrel Hydrolase, Identifies Networks for Thermal Activation of Catalysis. <i>Journal of the American Chemical Society</i> , 2020, 142, 19936-19949.	6.6	18
5	Biogenesis of the peptide-derived redox cofactor pyrroloquinoline quinone. <i>Current Opinion in Chemical Biology</i> , 2020, 59, 93-103.	2.8	23
6	Hydrogen deuterium exchange defines catalytically linked regions of protein flexibility in the catechol <i>O</i> -methyltransferase reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10797-10805.	3.3	19
7	Structural Properties and Catalytic Implications of the SPASM Domain Ironâ€™Sulfur Clusters in <i>Methylobacterium extorquens</i> PqqE. <i>Journal of the American Chemical Society</i> , 2020, 142, 12620-12634.	6.6	17
8	The Soybean Lipoxygenaseâ€™Substrate Complex: Correlation between the Properties of Tunneling-Ready States and ENDOR-Detected Structures of Ground States. <i>Biochemistry</i> , 2020, 59, 901-910.	1.2	17
9	A two-component protease in <i>Methylobacterium extorquens</i> with high activity toward the peptide precursor of the redox cofactor pyrroloquinoline quinone. <i>Journal of Biological Chemistry</i> , 2019, 294, 15025-15036.	1.6	19
10	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
11	Detecting and Characterizing the Kinetic Activation of Thermal Networks in Proteins: Thermal Transfer from a Distal, Solvent-Exposed Loop to the Active Site in Soybean Lipoxygenase. <i>Journal of Physical Chemistry B</i> , 2019, 123, 8662-8674.	1.2	27
12	Moving Through Barriers in Science and Life. <i>Annual Review of Biochemistry</i> , 2019, 88, 1-24.	5.0	10
13	Discovery of Hydroxylase Activity for PqqB Provides a Missing Link in the Pyrroloquinoline Quinone Biosynthetic Pathway. <i>Journal of the American Chemical Society</i> , 2019, 141, 4398-4405.	6.6	28
14	Comparative kinetic isotope effects on first- and second-order rate constants of soybean lipoxygenase variants uncover a substrate-binding network. <i>Journal of Biological Chemistry</i> , 2019, 294, 18069-18076.	1.6	7
15	Electron Paramagnetic Resonance Spectroscopic Identification of the Feâ€™S Clusters in the SPASM Domain-Containing Radical SAM Enzyme PqqE. <i>Biochemistry</i> , 2019, 58, 5173-5187.	1.2	16
16	Biophysical Characterization of a Disabled Double Mutant of Soybean Lipoxygenase: The â€™Undoingâ€™ of Precise Substrate Positioning Relative to Metal Cofactor and an Identified Dynamical Network. <i>Journal of the American Chemical Society</i> , 2019, 141, 1555-1567.	6.6	19
17	Hydrogenâ€™deuterium exchange reveals long-range dynamical allostery in soybean lipoxygenase. <i>Journal of Biological Chemistry</i> , 2018, 293, 1138-1148.	1.6	20
18	X-ray and EPR Characterization of the Auxiliary Feâ€™S Clusters in the Radical SAM Enzyme PqqE. <i>Biochemistry</i> , 2018, 57, 1306-1315.	1.2	31

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19	Activity-Related Microsecond Dynamics Revealed by Temperature-Jump Förster Resonance Energy Transfer Measurements on Thermophilic Alcohol Dehydrogenase. <i>Journal of the American Chemical Society</i> , 2018, 140, 900-903.	6.6	25
20	Methods for Expression, Purification, and Characterization of PqqE, a Radical SAM Enzyme in the PQQ Biosynthetic Pathway. <i>Methods in Enzymology</i> , 2018, 606, 389-420.	0.4	10
21	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
22	HOW CLOSE ARE WE TO EXPLAINING ENZYME CATALYSIS?. , 2018, , .		0
23	<sup>13</sup> C ENDOR Spectroscopy of Lipoyxygenaseâ€“Substrate Complexes Reveals the Structural Basis for Câ€“H Activation by Tunneling. <i>Journal of the American Chemical Society</i> , 2017, 139, 1984-1997.	6.6	47
24	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
25	Enhanced Rigidification within a Double Mutant of Soybean Lipoyxygenase Provides Experimental Support for Vibronically Nonadiabatic Proton-Coupled Electron Transfer Models. <i>ACS Catalysis</i> , 2017, 7, 3569-3574.	5.5	49
26	Hydrogenâ€“Deuterium Exchange of Lipoyxygenase 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
27	At the confluence of ribosomally synthesized peptide modification and radical S-adenosylmethionine (SAM) enzymology. <i>Journal of Biological Chemistry</i> , 2017, 292, 16397-16405.	1.6	20
28	Crystal structures reveal metal-binding plasticity at the metallo-Î²-lactamase active site of PqqB from <i>Pseudomonas putida</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2017, 22, 1089-1097.	1.1	10
29	Origins of Enzyme Catalysis: Experimental Findings for Câ€“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
30	Convergent Mechanistic Features between the Structurally Diverse <i>N</i>- and <i>O</i>-Methyltransferases: Glycine <i>N</i>-Methyltransferase and Catechol <i>O</i>-Methyltransferase. <i>Journal of the American Chemical Society</i> , 2016, 138, 9158-9165.	6.6	28
31	Hydrostatic Pressure Studies Distinguish Global from Local Protein Motions in Câ€“H Activation by Soybean Lipoyxygenaseâ€“1. <i>Angewandte Chemie</i> , 2016, 128, 9507-9510.	1.6	1
32	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
33	Synthesis of site-specifically <sup>13</sup> C labeled linoleic acids. <i>Tetrahedron Letters</i> , 2016, 57, 4537-4540.	0.7	9
34	<sup>1</sup> H, <sup>13</sup> C, and <sup>15</sup> N resonance assignments and secondary structure information for <i>Methylobacterium extorquens</i> PqqD and the complex of PqqD with PqqA. <i>Biomolecular NMR Assignments</i> , 2016, 10, 385-389.	0.4	8
35	Hydrostatic Pressure Studies Distinguish Global from Local Protein Motions in Câ€“H Activation by Soybean Lipoyxygenaseâ€“1. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9361-9364.	7.2	14
36	Control of the Position of Oxygen Delivery in Soybean Lipoyxygenase-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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37	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
38	Editorial overview: Catalysis and regulation. <i>Current Opinion in Structural Biology</i> , 2015, 35, iv-vi.	2.6	0
39	Temperature-Jump Fluorescence Provides Evidence for Fully Reversible Microsecond Dynamics in a Thermophilic Alcohol Dehydrogenase. <i>Journal of the American Chemical Society</i> , 2015, 137, 10060-10063.	6.6	19
40	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
41	Low Barrier Hydrogen Bonds: Getting Close, but Not Sharing.... <i>ACS Central Science</i> , 2015, 1, 115-116.	5.3	15
42	Kinetic Detection of Orthogonal Protein and Chemical Coordinates in Enzyme Catalysis: Double Mutants of Soybean Lipoxygenase. <i>Biochemistry</i> , 2015, 54, 5447-5456.	1.2	20
43	Solvent and Temperature Probes of the Long-Range Electron-Transfer Step in Tyramine $\beta$ -Monooxygenase: Demonstration of a Long-Range Proton-Coupled Electron-Transfer Mechanism. <i>Journal of the American Chemical Society</i> , 2015, 137, 5720-5729.	6.6	12
44	High-performance liquid chromatography separation of the (S,S)- and (R,S)-forms of S-adenosyl-l-methionine. <i>Analytical Biochemistry</i> , 2015, 476, 81-83.	1.1	15
45	Emerging Concepts about the Role of Protein Motion in Enzyme Catalysis. <i>Accounts of Chemical Research</i> , 2015, 48, 899-899.	7.6	12
46	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
47	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
48	Irwin Rose (1926-2015). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10568-10569.	3.3	0
49	Dynamically Achieved Active Site Precision in Enzyme Catalysis. <i>Accounts of Chemical Research</i> , 2015, 48, 449-456.	7.6	82
50	LOOKING IN NEW DIRECTIONS FOR THE ORIGINS OF ENZYMATIc RATE ACCELERATIONS. , 2014, , .		1
51	The power of integrating kinetic isotope effects into the formalism of the Michaelis-Menten equation. <i>FEBS Journal</i> , 2014, 281, 489-497.	2.2	18
52	Evolutionary Aspects of Enzyme Dynamics. <i>Journal of Biological Chemistry</i> , 2014, 289, 30205-30212.	1.6	55
53	Picosecond-Resolved Fluorescence Studies of Substrate and Cofactor-Binding Domain Mutants in a Thermophilic Alcohol Dehydrogenase Uncover an Extended Network of Communication. <i>Journal of the American Chemical Society</i> , 2014, 136, 14821-14833.	6.6	18
54	Hydrogen Tunneling in a Prokaryotic Lipoxygenase. <i>Biochemistry</i> , 2014, 53, 2212-2214.	1.2	22

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55	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
56	Picosecond-Resolved Fluorescent Probes at Functionally Distinct Tryptophans within a Thermophilic Alcohol Dehydrogenase: Relationship of Temperature-Dependent Changes in Fluorescence to Catalysis. <i>Journal of Physical Chemistry B</i> , 2014, 118, 6049-6061.	1.2	25
57	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
58	Structural Analysis of Aliphatic versus Aromatic Substrate Specificity in a Copper Amine Oxidase from <i>Hansenula polymorpha</i> . <i>Biochemistry</i> , 2013, 52, 2291-2301.	1.2	10
59	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
60	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
61	Importance of Protein Dynamics during Enzymatic C-H Bond Cleavage Catalysis. <i>Biochemistry</i> , 2013, 52, 2068-2077.	1.2	56
62	Hydrogen Tunneling Links Protein Dynamics to Enzyme Catalysis. <i>Annual Review of Biochemistry</i> , 2013, 82, 471-496.	5.0	273
63	Interdomain Long-Range Electron Transfer Becomes Rate-Limiting in the Y216A Variant of Tyramine $\beta$ -Monooxygenase. <i>Biochemistry</i> , 2013, 52, 1179-1191.	1.2	16
64	Structural Snapshots from the Oxidative Half-reaction of a Copper Amine Oxidase. <i>Journal of Biological Chemistry</i> , 2013, 288, 28409-28417.	1.6	18
65	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
66	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
67	Inactivation of Met471Cys Tyramine $\beta$ -Monooxygenase Results from Site-Specific Cysteic Acid Formation. <i>Biochemistry</i> , 2012, 51, 7488-7495.	1.2	2
68	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
69	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
70	The precursor form of <i>Hansenula polymorpha</i> copper amine oxidase 1 in complex with Cu <sup>I</sup> and Co <sup>II</sup> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 501-510.	0.7	4
71	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
72	Comparative Hydrogen-Deuterium Exchange for a Mesophilic vs Thermophilic Dihydrofolate Reductase at 25 Å°C: Identification of a Single Active Site Region with Enhanced Flexibility in the Mesophilic Protein. <i>Biochemistry</i> , 2011, 50, 8251-8260.	1.2	24

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73	Characterization of a Protein-Generated O <sub>2</sub> Binding Pocket in PqqC, a Cofactorless Oxidase Catalyzing the Final Step in PQQ Production. <i>Biochemistry</i> , 2011, 50, 1556-1566.	1.2	13
74	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
75	Thinking Like an Enzyme. , 2011, , 95-108.		0
76	The widespread occurrence of enzymatic hydrogen tunneling, and its unique properties, lead to a new physical model for the origins of enzyme catalysis. <i>Procedia Chemistry</i> , 2011, 3, 291-305.	0.7	6
77	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
78	The copper centers of tyramine $\hat{1}^2$ -monooxygenase and its catalytic-site methionine variants: an X-ray absorption study. <i>Journal of Biological Inorganic Chemistry</i> , 2010, 15, 1195-1207.	1.1	24
79	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
80	Structural studies of mutant forms of the PQQ-forming enzyme PqqC in the presence of product and substrate. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 2554-2562.	1.5	7
81	Control of active-site compression. <i>Nature Chemistry</i> , 2010, 2, 907-909.	6.6	20
82	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
83	An Active-Site Phenylalanine Directs Substrate Binding and C-H Cleavage in the $\hat{1}^{\pm}$ -Ketoglutarate-Dependent Dioxygenase TauD. <i>Journal of the American Chemical Society</i> , 2010, 132, 5114-5120.	6.6	25
84	Update 1 of: Tunneling and Dynamics in Enzymatic Hydride Transfer. <i>Chemical Reviews</i> , 2010, 110, PR41-PR67.	23.0	108
85	Mutation at a Strictly Conserved, Active Site Tyrosine in the Copper Amine Oxidase Leads to Uncontrolled Oxygenase Activity. <i>Biochemistry</i> , 2010, 49, 7393-7402.	1.2	16
86	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
87	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
88	Modular behavior of tauD provides insight into the origin of specificity in $\hat{1}^{\pm}$ -ketoglutarate-dependent nonheme iron oxygenases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19791-19795.	3.3	29
89	Facile synthesis of 1,1-[ <sup>2</sup> H <sub>2</sub> ]-2-methylaminoethane-1-sulfonic acid as a substrate for taurine $\hat{1}^{\pm}$ ketoglutarate dioxygenase (TauD). <i>Tetrahedron Letters</i> , 2009, 50, 611-613.	0.7	5
90	A 21st century revisionist's view at a turning point in enzymology. <i>Nature Chemical Biology</i> , 2009, 5, 543-550.	3.9	269

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91	An integrated model for enzyme catalysis emerges from studies of hydrogen tunneling. <i>Chemical Physics Letters</i> , 2009, 471, 179-193.	1.2	114
92	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
93	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
94	Synthesis of linoleic acids combinatorially labeled at the vinylic positions as substrates for lipoxygenases. <i>Tetrahedron Letters</i> , 2008, 49, 3600-3603.	0.7	11
95	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
96	<sup>18</sup> O Kinetic Isotope Effects in Non-Heme Iron Enzymes: Probing the Nature of Fe/O <sub>2</sub> Intermediates. <i>Journal of the American Chemical Society</i> , 2008, 130, 8122-8123.	6.6	51
97	Hydroxylase Activity of Met471Cys Tyramine $\hat{1}^2$ -Monooxygenase. <i>Journal of the American Chemical Society</i> , 2008, 130, 11939-11944.	6.6	29
98	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
99	Mechanism of the Insect Enzyme, Tyramine $\hat{1}^2$ -Monooxygenase, Reveals Differences from the Mammalian Enzyme, Dopamine $\hat{1}^2$ -Monooxygenase. <i>Journal of Biological Chemistry</i> , 2008, 283, 3042-3049.	1.6	28
100	The nature of O <sub>2</sub> 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
101	How Do Enzymes Activate Oxygen without Inactivating Themselves?. <i>Accounts of Chemical Research</i> , 2007, 40, 325-333.	7.6	136
102	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
103	Pyroloquinoline Quinone Biogenesis: Characterization of PqqC and Its H84N and H84A Active Site Variants. <i>Biochemistry</i> , 2007, 46, 7174-7186.	1.2	19
104	Partial Conversion of <i>Hansenula polymorpha</i> Amine Oxidase into a $\hat{1}^2$ -Plant Amine Oxidase: Implications for Copper Chemistry and Mechanism. <i>Biochemistry</i> , 2007, 46, 10817-10827.	1.2	29
105	Linking Protein Dynamics to Function. <i>FASEB Journal</i> , 2007, 21, A645.	0.2	3
106	Quinoproteins and Cofactors: Expecting the Unexpected. <i>FASEB Journal</i> , 2007, 21, A42.	0.2	0
107	Tunneling and Dynamics in Enzymatic Hydride Transfer. <i>Chemical Reviews</i> , 2006, 106, 3095-3118.	23.0	299
108	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

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109	The Catalytic Role of the Copper Ligand H172 of Peptidylglycine $\beta$ -Hydroxylating Monooxygenase: A Kinetic Study of the H172A Mutant. <i>Biochemistry</i> , 2006, 45, 15419-15429.	1.2	38
110	Pathway for the Stereocontrolled and E-Production of $\beta$ , $\beta$ -Difluoro-Substituted Phenyl Butenoates. <i>Journal of Organic Chemistry</i> , 2006, 71, 8618-8621.	1.7	30
111	Mechanism of O <sub>2</sub> Activation by Cytochrome P450cam Studied by Isotope Effects and Transient State Kinetics. <i>Biochemistry</i> , 2006, 45, 15793-15806.	1.2	26
112	Kinetic Isotope Effects in Enzymology. <i>Advances in Enzymology and Related Areas of Molecular Biology</i> , 2006, 46, 415-494.	1.3	26
113	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
114	The Copper-Enzyme Family of Dopamine $\beta$ -Monooxygenase and Peptidylglycine $\beta$ -Hydroxylating Monooxygenase: Resolving the Chemical Pathway for Substrate Hydroxylation. <i>Journal of Biological Chemistry</i> , 2006, 281, 3013-3016.	1.6	336
115	Investigation of Cu(I)-dependent 2,4,5-Trihydroxyphenylalanine Quinone Biogenesis in <i>Hansenula polymorpha</i> Amine Oxidase. <i>Journal of Biological Chemistry</i> , 2006, 281, 21114-21118.	1.6	14
116	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
117	2,4,5-Trihydroxyphenylalanine Quinone Biogenesis in the Copper Amine Oxidase from <i>Hansenula polymorpha</i> with the Alternate Metal Nickel. <i>Biochemistry</i> , 2005, 44, 14308-14317.	1.2	26
118	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
119	Cloning and characterization of histamine dehydrogenase from <i>Nocardioides simplex</i> . <i>Archives of Biochemistry and Biophysics</i> , 2005, 436, 8-22.	1.4	24
120	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
121	Methods for Characterizing TPQ-Containing Proteins. <i>Methods in Enzymology</i> , 2004, 378, 17-31.	0.4	6
122	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
123	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
124	Oxygen Isotope Effects on Electron Transfer to O <sub>2</sub> Probed Using Chemically Modified Flavins Bound to Glucose Oxidase. <i>Journal of the American Chemical Society</i> , 2004, 126, 15120-15131.	6.6	101
125	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
126	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



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127	Crystal Structure and Amide H/D Exchange of Binary Complexes of Alcohol Dehydrogenase from <i>Bacillus stearothermophilus</i> : An Insight into Thermostability and Cofactor Binding. <i>Biochemistry</i> , 2004, 43, 5266-5277.	1.2	69
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129	Evidence for Increased Local Flexibility in Psychrophilic Alcohol Dehydrogenase Relative to Its Thermophilic Homologue. <i>Biochemistry</i> , 2004, 43, 14676-14683.	1.2	62
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