Sam Hay

List of Publications by Year
in descending order

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127	4,003	126858	155592
papers	citations	33 h-index	55 g-index

136	136	136	3788
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular Determinants of Carbocation Cyclisation in Bacterial Monoterpene Synthases. ChemBioChem, 2022, 23, .	1.3	5
2	Chelator-Based Parameterization of the 12-6-4 Lennard-Jones Molecular Mechanics Potential for More Realistic Metal Ionâ€“Protein Interactions. Journal of Chemical Theory and Computation, 2022, 18, 2367-2374.	2.3	3
3	How Photoactivation Triggers Protochlorophyllide Reduction: Computational Evidence of a Stepwise Hydride Transfer during Chlorophyll Biosynthesis. ACS Catalysis, 2022, 12, 4141-4148.	5.5	8
4	Engineering an efficient and enantioselective enzyme for the Moritaâ€“Baylisâ€“Hillman reaction. Nature Chemistry, 2022, 14, 313-320.	6.6	34
5	Dual role of the active site â€˜lidâ€™ regions of protochlorophyllide oxidoreductase in photocatalysis and plant development. FEBS Journal, 2021, 288, 175-189.	2.2	15
6	Interplay between chromophore binding and domain assembly by the B₁₂-dependent photoreceptor protein, CarH. Chemical Science, 2021, 12, 8333-8341.	3.7	10
7	Structure and Mechanism of Pseudomonas aeruginosa PA0254/HudA, a prFMN-Dependent Pyrrole-2-carboxylic Acid Decarboxylase Linked to Virulence. ACS Catalysis, 2021, 11, 2865-2878.	5.5	15
8	Photocatalysis as the â€˜master switchâ€™ of photomorphogenesis in early plant development. Nature Plants, 2021, 7, 268-276.	4.7	22
9	Predicting new protein conformations from molecular dynamics simulation conformational landscapes and machine learning. Proteins: Structure, Function and Bioinformatics, 2021, 89, 915-921.	1.5	24
10	A Noncanonical Tryptophan Analogue Reveals an Active Site Hydrogen Bond Controlling Ferryl Reactivity in a Heme Peroxidase. Jacs Au, 2021, 1, 913-918.	3.6	8
11	UbiD domain dynamics underpins aromatic decarboxylation. Nature Communications, 2021, 12, 5065.	5.8	14
12	Directed evolution of prenylated FMN-dependent Fdc supports efficient in vivo isobutene production. Nature Communications, 2021, 12, 5300.	5.8	11
13	Blood, sweat, and tears: extraterrestrial regolith biocomposites with in vivo binders. Materials Today Bio, 2021, 12, 100136.	2.6	12
14	Quantum Biology: An Update and Perspective. Quantum Reports, 2021, 3, 80-126.	0.6	74
15	Taming the Reactivity of Monoterpene Synthases To Guide Regioselective Product Hydroxylation. ChemBioChem, 2020, 21, 985-990.	1.3	13
16	Pressure and Temperature Effects on the Formation of Aminoacrylate Intermediates of Tyrosine Phenol-lyase Demonstrate Reaction Dynamics. ACS Catalysis, 2020, 10, 1692-1703.	5.5	6
17	Non-covalent protein-based adhesives for transparent substratesâ€”bovine serum albumin vs. recombinant spider silk. Materials Today Bio, 2020, 7, 100068.	2.6	24
18	How Do Vanadium Chloroperoxidases Generate Hypochlorite from Hydrogen Peroxide and Chloride? A Computational Study. ACS Catalysis, 2020, 10, 14067-14079.	5.5	19

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19	Enzymatic Câ€“H activation of aromatic compounds through CO2 fixation. Nature Chemical Biology, 2020, 16, 1255-1260.	3.9	29
20	Assessing the Covalent Attachment and Energy Transfer Capabilities of Upconverting Phosphors With Cofactor Containing Bioactive Enzymes. Frontiers in Chemistry, 2020, 8, 613334.	1.8	1
21	Covalent Attachment of Active Enzymes to Upconversion Phosphors Allows Ratiometric Detection of Substrates. Chemistry - A European Journal, 2020, 26, 14817-14822.	1.7	8
22	Ultrafast Vibrational Energy Transfer between Protein and Cofactor in a Flavoenzyme. Journal of Physical Chemistry B, 2020, 124, 5163-5168.	1.2	8
23	Rewiring the â€œPush-Pullâ€•Catalytic Machinery of a Heme Enzyme Using an Expanded Genetic Code. ACS Catalysis, 2020, 10, 2735-2746.	5.5	25
24	Evaluating spectral overlap with the degree of quenching in UCP luminescence energy transfer systems. Methods and Applications in Fluorescence, 2020, 8, 045003.	1.1	3
25	Isotopically labeled flavoenzymes and their uses in probing reaction mechanisms. Methods in Enzymology, 2019, 620, 145-166.	0.4	2
26	MhuD from Mycobacterium tuberculosis: Probing a Dual Role in Heme Storage and Degradation. ACS Infectious Diseases, 2019, 5, 1855-1866.	1.8	8
27	Enzymatic control of cycloadduct conformation ensures reversible 1,3-dipolar cycloaddition in a prFMN-dependent decarboxylase. Nature Chemistry, 2019, 11, 1049-1057.	6.6	28
28	Grapheneâ€“aramid nanocomposite fibres via superacid co-processing. Chemical Communications, 2019, 55, 11703-11706.	2.2	8
29	Unexpected Roles of a Tether Harboring a Tyrosine Gatekeeper Residue in Modular Nitrite Reductase Catalysis. ACS Catalysis, 2019, 9, 6087-6099.	5.5	17
30	Evaluating spectral overlap with the degree of quenching in UCP luminescence energy transfer systems. Methods and Applications in Fluorescence, 2019, 7, 034003.	1.1	2
31	Photochemical Spin Dynamics of the Vitamin B₁₂ Derivative, Methylcobalamin. Journal of Physical Chemistry B, 2019, 123, 4663-4672.	1.2	9
32	Selectivity through discriminatory induced fit enables switching of <scp>NAD</scp>(P)H coenzyme specificity in Old Yellow Enzyme eneâ€reductases. FEBS Journal, 2019, 286, 3117-3128.	2.2	10
33	Synthetic biology for fibers, adhesives, and active camouflage materials in protection and aerospace. MRS Communications, 2019, 9, 486-504.	0.8	21
34	Equatorial Active Site Compaction and Electrostatic Reorganization in Catechol-O-methyltransferase. ACS Catalysis, 2019, 9, 4394-4401.	5.5	21
35	Structural basis for enzymatic photocatalysis in chlorophyll biosynthesis. Nature, 2019, 574, 722-725.	13.7	88
36	What are the signatures of tunnelling in enzyme-catalysed reactions?. Faraday Discussions, 2019, 221, 367-378.	1.6	7

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37	Zero-point energy and tunnelling: general discussion. Faraday Discussions, 2019, 221, 478-500.	1.6	4
38	Pressurized CO₂ as a carboxylating agent for the biocatalytic ortho-carboxylation of resorcinol. Green Chemistry, 2018, 20, 1754-1759.	4.6	23
39	1H, 15N and 13C backbone resonance assignments of pentaerythritol tetranitrate reductase from Enterobacter cloacae PB2. Biomolecular NMR Assignments, 2018, 12, 79-83.	0.4	6
40	Nonequivalence of Second Sphere â€œNoncatalyticâ€•Residues in Pentaerythritol Tetranitrate Reductase in Relation to Local Dynamics Linked to H-Transfer in Reactions with NADH and NADPH Coenzymes. ACS Catalysis, 2018, 8, 11589-11599.	5.5	12
41	Trapping methods for probing functional intermediates in nitric oxide synthases and related enzymes. Frontiers in Bioscience - Landmark, 2018, 23, 1874-1888.	3.0	2
42	A common mechanism for coenzyme cobalamin-dependent reductive dehalogenases. Physical Chemistry Chemical Physics, 2017, 19, 6090-6094.	1.3	21
43	Liver microsomal lipid enhances the activity and redox coupling of colocalized cytochrome P450 reductaseâ€cytochrome P450 3A4 in nanodiscs. FEBS Journal, 2017, 284, 2302-2319.	2.2	14
44	Convergence of Theory and Experiment on the Role of Preorganization, Quantum Tunneling, and Enzyme Motions into Flavoenzyme-Catalyzed Hydride Transfer. ACS Catalysis, 2017, 7, 3190-3198.	5.5	31
45	1H, 15N, 13C backbone resonance assignments of human soluble catechol O-methyltransferase in complex with S-adenosyl-l-methionine and 3,5-dinitrocatechol. Biomolecular NMR Assignments, 2017, 11, 57-61.	0.4	2
46	Structural Basis of Catalysis in the Bacterial Monoterpene Synthases Linalool Synthase and 1,8-Cineole Synthase. ACS Catalysis, 2017, 7, 6268-6282.	5.5	47
47	Extracting Kinetic Isotope Effects From a Global Analysis of Reaction Progress Curves. Methods in Enzymology, 2017, 596, 85-111.	0.4	1
48	Expanding the Scope of Biomolecule Monitoring with Ratiometric Signaling from Rareâ€Earth Upconverting Phosphors. European Journal of Inorganic Chemistry, 2017, 2017, 5176-5185.	1.0	7
49	Decoupled Associative and Dissociative Processes in Strong yet Highly Dynamic Hostâ€“Guest Complexes. Journal of the American Chemical Society, 2017, 139, 12985-12993.	6.6	56
50	A perspective on conformational control of electron transfer in nitric oxide synthases. Nitric Oxide - Biology and Chemistry, 2017, 63, 61-67.	1.2	19
51	Correlating Calmodulin Landscapes with Chemical Catalysis in Neuronal Nitric Oxide Synthase using Time-Resolved FRET and a 5-Deazaflavin Thermodynamic Trap. ACS Catalysis, 2016, 6, 5170-5180.	5.5	15
52	Time Course Analysis of Enzyme-Catalyzed DNA Polymerization. Biochemistry, 2016, 55, 5622-5634.	1.2	9
53	Untangling Heavy Protein and Cofactor Isotope Effects on Enzyme-Catalyzed Hydride Transfer. Journal of the American Chemical Society, 2016, 138, 13693-13699.	6.6	26
54	A â€˜Plug and Playâ€™ Platform for the Production of Diverse Monoterpene Hydrocarbon Scaffolds in Escherichia coli.. ChemistrySelect, 2016, 1, 1893-1896.	0.7	42

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55	Donorâ€“Acceptor Distance Sampling Enhances the Performance of â€œBetter than Natureâ€•Nicotinamide Coenzyme Biomimetics. Journal of the American Chemical Society, 2016, 138, 11089-11092.	6.6	38
56	Ground-State Destabilization by Phe-448 and Phe-449 Contributes to Tyrosine Phenol-Lyase Catalysis. ACS Catalysis, 2016, 6, 6770-6779.	5.5	20
57	An oxidative N-demethylase reveals PAS transition from ubiquitous sensor to enzyme. Nature, 2016, 539, 593-597.	13.7	21
58	Carboxylesterase converts Amplex red to resorufin: Implications for mitochondrial H2O2 release assays. Free Radical Biology and Medicine, 2016, 90, 173-183.	1.3	83
59	Dual transcriptional-translational cascade permits cellular level tuneable expression control. Nucleic Acids Research, 2016, 44, e21-e21.	6.5	39
60	Probing Reversible Chemistry in Coenzyme B₁₂â€Ðependent Ethanolamine Ammonia Lyase with Kinetic Isotope Effects. Chemistry - A European Journal, 2015, 21, 8826-8831.	1.7	5
61	Towards the free energy landscape for catalysis in mammalian nitric oxide synthases. FEBS Journal, 2015, 282, 3016-3029.	2.2	23
62	Realâ€time analysis of conformational control in electron transfer reactions of human cytochrome P450 reductase with cytochrome c. FEBS Journal, 2015, 282, 4357-4375.	2.2	27
63	Does the pressure dependence of kinetic isotope effects report usefully on dynamics in enzyme Hâ€transfer reactions?. FEBS Journal, 2015, 282, 3243-3255.	2.2	8
64	UbiX is a flavin prenyltransferase required for bacterial ubiquinone biosynthesis. Nature, 2015, 522, 502-506.	13.7	168
65	New cofactor supports Î±,Î²-unsaturated acid decarboxylation via 1,3-dipolar cycloaddition. Nature, 2015, 522, 497-501.	13.7	197
66	Nuclear quantum tunnelling in enzymatic reactions â€“ an enzymologist's perspective. Physical Chemistry Chemical Physics, 2015, 17, 30775-30782.	1.3	18
67	Epoxyqueuosine Reductase Structure Suggests a Mechanism for Cobalamin-dependent tRNA Modification. Journal of Biological Chemistry, 2015, 290, 27572-27581.	1.6	34
68	Structure and Mechanism of a Viral Collagen Prolyl Hydroxylase. Biochemistry, 2015, 54, 6093-6105.	1.2	19
69	Reductive dehalogenase structure suggests a mechanism for B12-dependent dehalogenation. Nature, 2015, 517, 513-516.	13.7	260
70	Energy Landscapes and Catalysis in Nitric-oxide Synthase. Journal of Biological Chemistry, 2014, 289, 11725-11738.	1.6	25
71	Ratiometric detection of enzyme turnover and flavin reduction using rare-earth upconverting phosphors. Dalton Transactions, 2014, 43, 5265-5268.	1.6	23
72	Proton tunnelling and promoting vibrations during the oxidation of ascorbate by ferricyanide?. Physical Chemistry Chemical Physics, 2014, 16, 2256.	1.3	10

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73	A quantitative fluorescenceâ€based steadyâ€state assay of <scp>DNA</scp> polymerase. FEBS Journal, 2014, 281, 2042-2050.	2.2	16
74	Practical Aspects on the Use of Kinetic Isotope Effects as Probes of Flavoprotein Enzyme Mechanisms. Methods in Molecular Biology, 2014, 1146, 161-175.	0.4	6
75	Fast Protein Motions Are Coupled to Enzyme H-Transfer Reactions. Journal of the American Chemical Society, 2013, 135, 2512-2517.	6.6	83
76	Dynamic, Electrostatic Model for the Generation and Control of Highâ€Energy Radical Intermediates by a Coenzyme B₁₂â€Dependent Enzyme. ChemBioChem, 2013, 14, 1529-1533.	1.3	11
77	Excited State Dynamics Can Be Used to Probe Donor-Acceptor Distances for H-Tunneling Reactions Catalyzed by Flavoproteins. Biophysical Journal, 2013, 105, 2549-2558.	0.2	17
78	Enzymatic Single-Molecule Kinetic Isotope Effects. Journal of the American Chemical Society, 2013, 135, 3855-3864.	6.6	21
79	Modulation of ligandâ€“heme reactivity by binding pocket residues demonstrated in cytochromeÂc' over the femtosecondâ€“second temporal range. FEBS Journal, 2013, 280, 6070-6082.	2.2	7
80	Relating localized protein motions to the reaction coordinate in coenzymeÂ<scp>B</scp>₁₂â€dependent enzymes. FEBS Journal, 2013, 280, 2997-3008.	2.2	29
81	Ultrafast Infrared Spectral Fingerprints of Vitamin B₁₂ and Related Cobalamins. Journal of Physical Chemistry A, 2012, 116, 5586-5594.	1.1	38
82	Evidence of Preorganization in Quinonoid Intermediate Formation from <scp>l</scp>-Trp in H463F Mutant Escherichia coli Tryptophan Indole-lyase from Effects of Pressure and pH. Biochemistry, 2012, 51, 6527-6533.	1.2	5
83	Protein Motions Are Coupled to the Reaction Chemistry in Coenzyme B₁₂â€Dependent Ethanolamine Ammonia Lyase. Angewandte Chemie - International Edition, 2012, 51, 9306-9310.	7.2	28
84	Pressure Effects on Enzyme-Catalyzed Quantum Tunneling Events Arise from Protein-Specific Structural and Dynamic Changes. Journal of the American Chemical Society, 2012, 134, 9749-9754.	6.6	27
85	Good vibrations in enzyme-catalysed reactions. Nature Chemistry, 2012, 4, 161-168.	6.6	246
86	Gating mechanisms for biological electron transfer: Integrating structure with biophysics reveals the nature of redox control in cytochrome P450 reductase and copperâ€dependent nitrite reductase. FEBS Letters, 2012, 586, 578-584.	1.3	31
87	Preparation and photophysical properties of a caged kynurenine. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 2734-2737.	1.0	9
88	Kinetic and spectroscopic probes of motions and catalysis in the cytochrome P450 reductase family of enzymes. FEBS Journal, 2012, 279, 1534-1544.	2.2	18
89	Electrochemical and Structural Properties of a Protein System Designed To Generate Tyrosine Pourbaix Diagrams. Journal of the American Chemical Society, 2011, 133, 17786-17795.	6.6	37
90	Chapter 3. Experimental Approaches Towards Proton-Coupled Electron Transfer Reactions in Biological Redox Systems. RSC Catalysis Series, 2011, , 57-88.	0.1	1

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91	Examining the importance of dynamics, barrier compression and hydrogen tunnelling in enzyme catalysed reactions. Procedia Chemistry, 2011, 3, 306-315.	0.7	2
92	Is There a Dynamic Protein Contribution to the Substrate Trigger in Coenzyme B₁₂â€Dependent Ethanolamine Ammonia Lyase?. Angewandte Chemie - International Edition, 2011, 50, 10843-10846.	7.2	30
93	Probing active site geometry using high pressure and secondary isotope effects in an enzymeâ€catalysed â€˜deepâ€™ Hâ€tunnelling reaction. Journal of Physical Organic Chemistry, 2010, 23, 696-701.	0.9	16
94	Barrier Compression and Its Contribution to Both Classical and Quantum Mechanical Aspects of Enzyme Catalysis. Biophysical Journal, 2010, 98, 121-128.	0.2	43
95	Nature of the Energy Landscape for Gated Electron Transfer in a Dynamic Redox Protein. Journal of the American Chemical Society, 2010, 132, 9738-9745.	6.6	63
96	Direct Analysis of Donorâ‹¯Acceptor Distance and Relationship to Isotope Effects and the Force Constant for Barrier Compression in Enzymatic H-Tunneling Reactions. Journal of the American Chemical Society, 2010, 132, 11329-11335.	6.6	74
97	Demonstration of Proton-coupled Electron Transfer in the Copper-containing Nitrite Reductases. Journal of Biological Chemistry, 2009, 284, 25973-25983.	1.6	50
98	Parallel Pathways and Freeâ€Energy Landscapes for Enzymatic Hydride Transfer Probed by Hydrostatic Pressure. ChemBioChem, 2009, 10, 1379-1384.	1.3	22
99	Are the Catalytic Properties of Enzymes from Piezophilic Organisms Pressure Adapted?. ChemBioChem, 2009, 10, 2348-2353.	1.3	48
100	Barrier Compression Enhances an Enzymatic Hydrogenâ€Transfer Reaction. Angewandte Chemie - International Edition, 2009, 48, 1452-1454.	7.2	52
101	Structural and mechanistic aspects of flavoproteins: probes of hydrogen tunnelling. FEBS Journal, 2009, 276, 3930-3941.	2.2	27
102	Bipartite recognition and conformational sampling mechanisms for hydride transfer from nicotinamide coenzyme to FMN in pentaerythritol tetranitrate reductase. FEBS Journal, 2009, 276, 4780-4789.	2.2	24
103	Evidence To Support the Hypothesis That Promoting Vibrations Enhance the Rate of an Enzyme Catalyzed H-Tunneling Reaction. Journal of the American Chemical Society, 2009, 131, 17072-17073.	6.6	79
104	Probing Coupled Motions in Enzymatic Hydrogen Tunnelling Reactions: Beyond Temperature-Dependence Studies of Kinetic Isotope Effects. RSC Biomolecular Sciences, 2009, , 199-218.	0.4	12
105	H-transfers in Photosystem II: what can we learn from recent lessons in the enzyme community?. Photosynthesis Research, 2008, 98, 169-177.	1.6	6
106	Driving Force Analysis of Proton Tunnelling Across a Reactivity Series for an Enzymeâ€Substrate Complex. ChemBioChem, 2008, 9, 2839-2845.	1.3	20
107	Secondary Kinetic Isotope Effects as Probes of Environmentallyâ€Coupled Enzymatic Hydrogen Tunneling Reactions. ChemPhysChem, 2008, 9, 1536-1539.	1.0	16
108	Solvent as a Probe of Active Site Motion and Chemistry during the Hydrogen Tunnelling Reaction in Morphinone Reductase. ChemPhysChem, 2008, 9, 1875-1881.	1.0	16

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109	Are Environmentally Coupled Enzymatic Hydrogen Tunneling Reactions Influenced by Changes in Solution Viscosity?. Angewandte Chemie - International Edition, 2008, 47, 537-540.	7.2	34
110	Interâ€flavin electron transfer in cytochrome P450 reductase â€“ effects of solvent and pH identify hidden complexity in mechanism. FEBS Journal, 2008, 275, 4540-4557.	2.2	39
111	Deep Tunneling Dominates the Biologically Important Hydride Transfer Reaction from NADH to FMN in Morphinone Reductase. Journal of the American Chemical Society, 2008, 130, 7092-7097.	6.6	75
112	Incorporation of Hydrostatic Pressure into Models of Hydrogen Tunneling Highlights a Role for Pressure-Modulated Promoting Vibrations. Biochemistry, 2008, 47, 9880-9887.	1.2	36
113	Correction of Pre-Steady-State KIEs for Isotopic Impurities and the Consequences of Kinetic Isotope Fractionation. Journal of Physical Chemistry A, 2008, 112, 13109-13115.	1.1	9
114	Making a single-chain four-helix bundle for redox chemistry studies. Protein Engineering, Design and Selection, 2008, 21, 645-652.	1.0	9
115	Atomistic insight into the origin of the temperature-dependence of kinetic isotope effects and H-tunnelling in enzyme systems is revealed through combined experimental studies and biomolecular simulation. Biochemical Society Transactions, 2008, 36, 16-21.	1.6	21
116	DNA Binding Suppresses Human AIF-M2 Activity and Provides a Connection between Redox Chemistry, Reactive Oxygen Species, and Apoptosis. Journal of Biological Chemistry, 2007, 282, 30331-30340.	1.6	36
117	Promoting motions in enzyme catalysis probed by pressure studies of kinetic isotope effects. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 507-512.	3.3	98
118	Redox Characteristics of a de Novo Quinone Protein. Journal of Physical Chemistry B, 2007, 111, 3488-3495.	1.2	24
119	Conformational Dynamics of the Cytochrome P450 BM3/N-Palmitoylglycine Complex:â€‰ The Proposed â€œProximalâ^'Distalâ€•Transition Probed by Temperature-Jump Spectroscopy. Journal of Physical Chemistry B, 2007, 111, 7879-7886.	1.2	16
120	Conformational and Thermodynamic Control of Electron Transfer in Neuronal Nitric Oxide Synthase. Biochemistry, 2007, 46, 5018-5029.	1.2	53
121	Mutagenesis of Morphinone Reductase Induces Multiple Reactive Configurations and Identifies Potential Ambiguity in Kinetic Analysis of Enzyme Tunneling Mechanisms. Journal of the American Chemical Society, 2007, 129, 13949-13956.	6.6	55
122	Proton Tunneling in Aromatic Amine Dehydrogenase is Driven by a Short-Range Sub-Picosecond Promoting Vibration:Â Consistency of Simulation and Theory with Experiment. Journal of Physical Chemistry B, 2007, 111, 2631-2638.	1.2	62
123	Magnetic Field Effect Studies Indicate Reduced Geminate Recombination of the Radical Pair in Substrate-Bound Adenosylcobalamin-Dependent Ethanolamine Ammonia Lyase. Journal of the American Chemical Society, 2007, 129, 15718-15727.	6.6	51
124	Î±-Secondary Isotope Effects as Probes of â€œTunneling-Readyâ€•Configurations in Enzymatic H-Tunneling:Â Insight from Environmentally Coupled Tunneling Models. Journal of the American Chemical Society, 2006, 128, 14053-14058.	6.6	66
125	Moving a Phenol Hydroxyl Group from the Surface to the Interior of a Protein:â€‰ Effects on the Phenol Potential and pKA. Biochemistry, 2005, 44, 11891-11902.	1.2	27
126	Conversion of theEscherichia coliCytochromeb562to an Archetype Cytochromeb:Â A Mutant with Bis-Histidine Ligation of Heme Ironâ€. Biochemistry, 2005, 44, 431-439.	1.2	24

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127	Protein engineering of cytochrome b562 for quinone binding and light-induced electron transfer. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17675-17680.	3.3	46