

# Paul F Fitzpatrick

## List of Publications by Year in descending order

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142  
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5,829  
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76326  
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95266  
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143  
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143  
docs citations

143  
times ranked

4259  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tetrahydropterin-Dependent Amino Acid Hydroxylases. Annual Review of Biochemistry, 1999, 68, 355-381.	11.1	473
2	Crystal structure of tyrosine hydroxylase at 2.3 Å... and its implications for inherited neurodegenerative diseases. Nature Structural Biology, 1997, 4, 578-585.	9.7	244
3	Mechanism of Aromatic Amino Acid Hydroxylation. Biochemistry, 2003, 42, 14083-14091.	2.5	244
4	Oxidation of amines by flavoproteins. Archives of Biochemistry and Biophysics, 2010, 493, 13-25.	3.0	189
5	Thermal profiling reveals phenylalanine hydroxylase as an off-target of panobinostat. Nature Chemical Biology, 2016, 12, 908-910.	8.0	189
6	Structures and mechanism of the monoamine oxidase family. Biomolecular Concepts, 2011, 2, 365-377.	2.2	166
7	Direct Spectroscopic Evidence for a High-Spin Fe(IV) Intermediate in Tyrosine Hydroxylase. Journal of the American Chemical Society, 2007, 129, 11334-11335.	13.7	164
8	Characterization of the Active Site Iron in Tyrosine Hydroxylase. Journal of Biological Chemistry, 1996, 271, 24395-24400.	3.4	107
9	Steady-state kinetic mechanism of rat tyrosine hydroxylase. Biochemistry, 1991, 30, 3658-3662.	2.5	104
10	Domain Movements upon Activation of Phenylalanine Hydroxylase Characterized by Crystallography and Chromatography-Coupled Small-Angle X-ray Scattering. Journal of the American Chemical Society, 2016, 138, 6506-6516.	13.7	100
11	Substrate Dehydrogenation by Flavoproteins. Accounts of Chemical Research, 2001, 34, 299-307.	15.6	98
12	A Mechanism for Hydroxylation by Tyrosine Hydroxylase Based on Partitioning of Substituted Phenylalanines. Biochemistry, 1996, 35, 6969-6975.	2.5	90
13	Carbanion versus hydride transfer mechanisms in flavoprotein-catalyzed dehydrogenations. Bioorganic Chemistry, 2004, 32, 125-139.	4.1	77
14	Oxygen-18 Kinetic Isotope Effect Studies of the Tyrosine Hydroxylase Reaction: Evidence of Rate Limiting Oxygen Activation. Journal of the American Chemical Society, 1998, 120, 4057-4062.	13.7	75
15	Effects of Phosphorylation of Serine 40 of Tyrosine Hydroxylase on Binding of Catecholamines: Evidence for a Novel Regulatory Mechanism. Biochemistry, 1998, 37, 8980-8986.	2.5	75
16	Expression and characterization of catalytic and regulatory domains of rat tyrosine hydroxylase. Protein Science, 1993, 2, 1452-1460.	7.6	74
17	Insights into the Mechanism of Flavoprotein-Catalyzed Amine Oxidation from Nitrogen Isotope Effects on the Reaction of N-Methyltryptophan Oxidase. Biochemistry, 2007, 46, 7655-7664.	2.5	69
18	Differential quantum tunneling contributions in nitroalkane oxidase catalyzed and the uncatalyzed proton transfer reaction. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20734-20739.	7.1	69

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19	Nitrogen Isotope Effects As Probes of the Mechanism of $\alpha$ -Amino Acid Oxidase. Journal of the American Chemical Society, 2000, 122, 12896-12897.	13.7	68
20	Mechanisms of tryptophan and tyrosine hydroxylase. IUBMB Life, 2013, 65, 350-357.	3.4	67
21	The Aromatic Amino Acid Hydroxylases. Advances in Enzymology and Related Areas of Molecular Biology, 2006, 74, 235-294.	1.3	66
22	Characterization of Chimeric Pterin-Dependent Hydroxylases: Contributions of the Regulatory Domains of Tyrosine and Phenylalanine Hydroxylase to Substrate Specificity. Biochemistry, 1997, 36, 11574-11582.	2.5	65
23	Expression and Characterization of the Catalytic Core of Tryptophan Hydroxylase. Journal of Biological Chemistry, 1998, 273, 12259-12266.	3.4	62
24	On the Catalytic Mechanism of Tryptophan Hydroxylase. Journal of the American Chemical Society, 2000, 122, 4535-4541.	13.7	62
25	Allosteric regulation of phenylalanine hydroxylase. Archives of Biochemistry and Biophysics, 2012, 519, 194-201.	3.0	61
26	The metal requirement of rat tyrosine hydroxylase. Biochemical and Biophysical Research Communications, 1989, 161, 211-215.	2.1	60
27	Identification of the Naturally Occurring Flavin of Nitroalkane Oxidase from <i>Fusarium oxysporum</i> as a 5-Nitrobutyl-FAD and Conversion of the Enzyme to the Active FAD-containing Form. Journal of Biological Chemistry, 1997, 272, 5563-5570.	3.4	56
28	Identification of iron ligands in tyrosine hydroxylase by mutagenesis of conserved histidyl residues. Protein Science, 1995, 4, 2082-2086.	7.6	50
29	Identification of tyrosine hydroxylase as a physiological substrate for Cdk5. Journal of Neurochemistry, 2004, 91, 374-384.	3.9	50
30	Nitroalkane oxidase, a carbanion-forming flavoprotein homologous to acyl-CoA dehydrogenase. Archives of Biochemistry and Biophysics, 2005, 433, 157-165.	3.0	50
31	Kinetic Isotope Effects on Hydroxylation of Ring-Deuterated Phenylalanines by Tyrosine Hydroxylase Provide Evidence against Partitioning of an Arene Oxide Intermediate. Journal of the American Chemical Society, 1994, 116, 1133-1134.	13.7	48
32	Spectroscopy and Kinetics of Wild-Type and Mutant Tyrosine Hydroxylase: Mechanistic Insight into $O_2$ Activation. Journal of the American Chemical Society, 2009, 131, 7685-7698.	13.7	48
33	Mechanistic Studies of the Flavoenzyme Tryptophan 2-Monooxygenase: Deuterium and $^{15}N$ Kinetic Isotope Effects on Alanine Oxidation by $\alpha$ -Amino Acid Oxidase. Biochemistry, 2006, 45, 15844-15852.	2.5	47
34	The Solution Structure of the Regulatory Domain of Tyrosine Hydroxylase. Journal of Molecular Biology, 2014, 426, 1483-1497.	4.2	47
35	Mechanism-based inhibitors of dopamine $\beta$ -hydroxylase. Archives of Biochemistry and Biophysics, 1987, 257, 231-250.	3.0	45
36	Effects of Phosphorylation on Binding of Catecholamines to Tyrosine Hydroxylase: Specificity and Thermodynamics. Biochemistry, 2000, 39, 773-778.	2.5	45

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37	Reversing the Substrate Specificities of Phenylalanine and Tyrosine Hydroxylase: Aspartate 425 of Tyrosine Hydroxylase Is Essential for L-DOPA Formation. <i>Biochemistry</i> , 2000, 39, 9652-9661.	2.5	45
38	Solvent and Primary Deuterium Isotope Effects Show That Lactate CH and OH Bond Cleavages Are Concerted in Y254F Flavocytochrome b <sub>2</sub> , Consistent with a Hydride Transfer Mechanism. <i>Biochemistry</i> , 2003, 42, 15208-15214.	2.5	45
39	Insights into the Catalytic Mechanisms of Phenylalanine and Tryptophan Hydroxylase from Kinetic Isotope Effects on Aromatic Hydroxylation. <i>Biochemistry</i> , 2006, 45, 11030-11037.	2.5	43
40	Limited Proteolysis of Tyrosine Hydroxylase Identifies Residues 33-50 as Conformationally Sensitive to Phosphorylation State and Dopamine Binding. <i>Archives of Biochemistry and Biophysics</i> , 1999, 367, 143-145.	3.0	41
41	Crystal Structures of Nitroalkane Oxidase: Insights into the Reaction Mechanism from a Covalent Complex of the Flavoenzyme Trapped during Turnover. <i>Biochemistry</i> , 2006, 45, 1138-1150.	2.5	40
42	Regulation of Phenylalanine Hydroxylase: Conformational Changes Upon Phenylalanine Binding Detected by Hydrogen/Deuterium Exchange and Mass Spectrometry. <i>Biochemistry</i> , 2010, 49, 3327-3335.	2.5	40
43	A lysine conserved in the monoamine oxidase family is involved in oxidation of the reduced flavin in mouse polyamine oxidase. <i>Archives of Biochemistry and Biophysics</i> , 2010, 498, 83-88.	3.0	40
44	Mechanistic studies of the flavoprotein tryptophan 2-monooxygenase. 2. pH and kinetic isotope effects. <i>Biochemistry</i> , 1995, 34, 3716-3723.	2.5	38
45	Substrate Specificity of a Nitroalkane-Oxidizing Enzyme. <i>Archives of Biochemistry and Biophysics</i> , 1999, 363, 309-313.	3.0	38
46	Effects of phosphorylation by protein kinase A on binding of catecholamines to the human tyrosine hydroxylase isoforms. <i>Journal of Neurochemistry</i> , 2004, 90, 970-978.	3.9	38
47	pH Dependence of a Mammalian Polyamine Oxidase: Insights into Substrate Specificity and the Role of Lysine 315. <i>Biochemistry</i> , 2009, 48, 1508-1516.	2.5	38
48	STRENDAB: enabling the validation and sharing of enzyme kinetics data. <i>FEBS Journal</i> , 2018, 285, 2193-2204.	4.7	38
49	Intrinsic Primary, Secondary, and Solvent Kinetic Isotope Effects on the Reductive Half-Reaction of D-Amino Acid Oxidase: Evidence against a Concerted Mechanism. <i>Biochemistry</i> , 1994, 33, 4001-4007.	2.5	37
50	Comparison of Enzymatic and Non-Enzymatic Nitroethane Anion Formation: Thermodynamics and Contribution of Tunneling. <i>Journal of the American Chemical Society</i> , 2004, 126, 6244-6245.	13.7	37
51	Direct evidence for a phenylalanine site in the regulatory domain of phenylalanine hydroxylase. <i>Archives of Biochemistry and Biophysics</i> , 2011, 505, 250-255.	3.0	37
52	Expression and Characterization of the Catalytic Domain of Human Phenylalanine Hydroxylase. <i>Archives of Biochemistry and Biophysics</i> , 1997, 348, 295-302.	3.0	36
53	Cloning of nitroalkane oxidase from <i>Fusarium oxysporum</i> identifies a new member of the acyl-CoA dehydrogenase superfamily. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 2702-2707.	7.1	36
54	Mechanistic studies of the flavoprotein tryptophan 2-monooxygenase. 1. Kinetic mechanism. <i>Biochemistry</i> , 1995, 34, 3710-3715.	2.5	35

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55	Effects of Substitution at Serine 40 of Tyrosine Hydroxylase on Catecholamine Binding. <i>Biochemistry</i> , 2001, 40, 7273-7278.	2.5	34
56	Combining solvent isotope effects with substrate isotope effects in mechanistic studies of alcohol and amine oxidation by enzymes. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 1746-1755.	2.3	34
57	Establishing the Kinetic Competency of the Cationic Imine Intermediate in Nitroalkane Oxidase. <i>Journal of the American Chemical Society</i> , 2005, 127, 2062-2066.	13.7	33
58	Mechanism-based inhibitors of dopamine .beta.-hydroxylase containing acetylenic or cyclopropyl groups. <i>Journal of the American Chemical Society</i> , 1985, 107, 5022-5023.	13.7	32
59	Kinetic Mechanism and Substrate Specificity of Nitroalkane Oxidase. <i>Biochemical and Biophysical Research Communications</i> , 1996, 225, 6-10.	2.1	32
60	Use of pH and Kinetic Isotope Effects to Dissect the Effects of Substrate Size on Binding and Catalysis by Nitroalkane Oxidase. <i>Archives of Biochemistry and Biophysics</i> , 2000, 382, 138-144.	3.0	31
61	pH and kinetic isotope effects on the reductive half-reaction of D-amino acid oxidase. <i>Biochemistry</i> , 1992, 31, 8207-8215.	2.5	30
62	Probing the Relative Timing of Hydrogen Abstraction Steps in the Flavocytochrome b <sub>2</sub> Reaction with Primary and Solvent Deuterium Isotope Effects and Mutant Enzymes. <i>Biochemistry</i> , 2001, 40, 994-1001.	2.5	29
63	Phenylalanine Binding Is Linked to Dimerization of the Regulatory Domain of Phenylalanine Hydroxylase. <i>Biochemistry</i> , 2014, 53, 6625-6627.	2.5	29
64	Uncoupled Forms of Tyrosine Hydroxylase Unmask Kinetic Isotope Effects on Chemical Steps. <i>Journal of the American Chemical Society</i> , 2003, 125, 16190-16191.	13.7	28
65	Effects of mutations in tyrosine hydroxylase associated with progressive dystonia on the activity and stability of the protein. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 58, 14-21.	2.6	28
66	Intrinsic Isotope Effects on Benzylic Hydroxylation by the Aromatic Amino Acid Hydroxylases: Evidence for Hydrogen Tunneling, Coupled Motion, and Similar Reactivities. <i>Journal of the American Chemical Society</i> , 2005, 127, 16414-16415.	13.7	28
67	Mutation of regulatory serines of rat tyrosine hydroxylase to glutamate: effects on enzyme stability and activity. <i>Archives of Biochemistry and Biophysics</i> , 2005, 434, 266-274.	3.0	28
68	Mechanistic Studies of Human Spermine Oxidase: Kinetic Mechanism and pH Effects. <i>Biochemistry</i> , 2010, 49, 386-392.	2.5	28
69	Isotope Effects Suggest a Stepwise Mechanism for Berberine Bridge Enzyme. <i>Biochemistry</i> , 2012, 51, 7342-7347.	2.5	28
70	pH and Secondary Kinetic Isotope Effects on the Reaction of d-Amino Acid Oxidase with Nitroalkane Anions: Evidence for Direct Attack on the Flavin by Carbanions. <i>Journal of the American Chemical Society</i> , 1997, 119, 1155-1156.	13.7	27
71	Mechanism of Nitroalkane Oxidase: 2. pH and Kinetic Isotope Effects. <i>Biochemistry</i> , 2000, 39, 1406-1410.	2.5	27
72	A Continuous Fluorescence Assay for Tryptophan Hydroxylase. <i>Analytical Biochemistry</i> , 1999, 266, 148-152.	2.4	26

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73	Analysis of the Role of the Active Site Residue Arg98 in the Flavoprotein Tryptophan 2-Monooxygenase, a Member of the I-Amino Oxidase Family. <i>Biochemistry</i> , 2003, 42, 13826-13832.	2.5	26
74	Structure of the Flavoprotein Tryptophan 2-Monooxygenase, a Key Enzyme in the Formation of Galls in Plants. <i>Biochemistry</i> , 2013, 52, 2620-2626.	2.5	26
75	Structural insights into the regulation of aromatic amino acid hydroxylation. <i>Current Opinion in Structural Biology</i> , 2015, 35, 1-6.	5.7	26
76	Intrinsic Deuterium Isotope Effects on Benzylic Hydroxylation by Tyrosine Hydroxylase. <i>Journal of the American Chemical Society</i> , 2002, 124, 4202-4203.	13.7	25
77	Reductive Half-Reaction of Nitroalkane Oxidase:Â Effect of Mutation of the Active Site Aspartate to Glutamateâ€¦. <i>Biochemistry</i> , 2003, 42, 5850-5856.	2.5	25
78	Crystal Structures of Intermediates in the Nitroalkane Oxidase Reaction. <i>Biochemistry</i> , 2009, 48, 3407-3416.	2.5	25
79	Measurement of Intrinsic Rate Constants in the Tyrosine Hydroxylase Reaction. <i>Biochemistry</i> , 2010, 49, 645-652.	2.5	25
80	Identification of the Allosteric Site for Phenylalanine in Rat Phenylalanine Hydroxylase. <i>Journal of Biological Chemistry</i> , 2016, 291, 7418-7425.	3.4	25
81	Identification by Hydrogen/Deuterium Exchange of Structural Changes in Tyrosine Hydroxylase Associated with Regulation. <i>Biochemistry</i> , 2009, 48, 4972-4979.	2.5	24
82	Kinetic Mechanism of Phenylalanine Hydroxylase: Intrinsic Binding and Rate Constants from Single-Turnover Experiments. <i>Biochemistry</i> , 2013, 52, 1062-1073.	2.5	24
83	Metal dependence and branched RNA cocrystal structures of the RNA lariat debranching enzyme Dbr1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14727-14732.	7.1	24
84	Structural and enzymatic insights into species-specific resistance to schistosome parasite drug therapy. <i>Journal of Biological Chemistry</i> , 2017, 292, 11154-11164.	3.4	24
85	Mechanistic Studies of Mouse Polyamine Oxidase with N1,N12-Bisethylspermine as a Substrateâ€¦. <i>Biochemistry</i> , 2005, 44, 7079-7084.	2.5	23
86	Influence of Steric Bulk and Electrostatics on the Hydroxylation Regiospecificity of Tryptophan Hydroxylase:Â Characterization of Methyltryptophans and Azatryptophans as Substratesâ€¦. <i>Biochemistry</i> , 1999, 38, 16283-16289.	2.5	22
87	Iso-Mechanism of Nitroalkane Oxidase:Â 1. Inhibition Studies and Activation by Imidazoleâ€¦. <i>Biochemistry</i> , 2000, 39, 1400-1405.	2.5	22
88	Activation of Phenylalanine Hydroxylase by Phenylalanine Does Not Require Binding in the Active Site. <i>Biochemistry</i> , 2014, 53, 7846-7853.	2.5	22
89	Inactivation of Nitroalkane Oxidase upon Mutation of the Active Site Base and Rescue with a Deprotonated Substrate. <i>Journal of the American Chemical Society</i> , 2003, 125, 8738-8739.	13.7	21
90	pH and Kinetic Isotope Effects on Sarcosine Oxidation by N-Methyltryptophan Oxidaseâ€¦. <i>Biochemistry</i> , 2005, 44, 3074-3081.	2.5	21

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91	Insights into the mechanisms of flavoprotein oxidases from kinetic isotope effects. Journal of Labelled Compounds and Radiopharmaceuticals, 2007, 50, 1016-1025.	1.0	21
92	Effects of Ligands on the Mobility of an Active-Site Loop in Tyrosine Hydroxylase as Monitored by Fluorescence Anisotropy. Biochemistry, 2006, 45, 9632-9638.	2.5	20
93	Single Turnover Kinetics of Tryptophan Hydroxylase: Evidence for a New Intermediate in the Reaction of the Aromatic Amino Acid Hydroxylases. Biochemistry, 2010, 49, 7563-7571.	2.5	19
94	Pulsed EPR Study of Amino Acid and Tetrahydropterin Binding in a Tyrosine Hydroxylase Nitric Oxide Complex: Evidence for Substrate Rearrangements in the Formation of the Oxygen-Reactive Complex. Biochemistry, 2013, 52, 8430-8441.	2.5	19
95	An empirical analysis of enzyme function reporting for experimental reproducibility: Missing/incomplete information in published papers. Biophysical Chemistry, 2018, 242, 22-27.	2.8	19
96	Role of Tryptophan Hydroxylase Phe313 in Determining Substrate Specificity. Biochemical and Biophysical Research Communications, 2002, 292, 639-641.	2.1	18
97	Characterization of Metal Ligand Mutants of Tyrosine Hydroxylase: Insights into the Plasticity of a 2-Histidine-1-Carboxylate Triad. Biochemistry, 2003, 42, 2081-2088.	2.5	18
98	The enzymes of microbial nicotine metabolism. Beilstein Journal of Organic Chemistry, 2018, 14, 2295-2307.	2.2	18
99	A Flexible Loop in Tyrosine Hydroxylase Controls Coupling of Amino Acid Hydroxylation to Tetrahydropterin Oxidation. Journal of Molecular Biology, 2006, 359, 299-307.	4.2	17
100	Mechanism of the Flavoprotein <i>l</i> -Hydroxynicotine Oxidase: Kinetic Mechanism, Substrate Specificity, Reaction Product, and Roles of Active-Site Residues. Biochemistry, 2016, 55, 697-703.	2.5	17
101	Nitroalkane oxidase: Structure and mechanism. Archives of Biochemistry and Biophysics, 2017, 632, 41-46.	3.0	17
102	Solvent isotope and viscosity effects on the steady-state kinetics of the flavoprotein nitroalkane oxidase. FEBS Letters, 2013, 587, 2785-2789.	2.8	16
103	Identification of Native Flavin Adducts from <i>Fusarium oxysporum</i> Using Accurate Mass Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. Analytical Chemistry, 1997, 69, 2862-2865.	6.5	15
104	Use of alternate substrates to probe the order of substrate addition to dopamine $\beta$ -hydroxylase. Archives of Biochemistry and Biophysics, 1986, 249, 70-75.	3.0	14
105	Identification of an Essential Tyrosine Residue in Nitroalkane Oxidase by Modification with Tetranitromethane. Biochemistry, 2000, 39, 1162-1168.	2.5	14
106	Mechanistic Studies of <i>p</i> -Substituted <i>N,N</i> - $\alpha$ ²-Dibenzyl-1,4-diaminobutanes as Substrates for a Mammalian Polyamine Oxidase. Biochemistry, 2009, 48, 12305-12313.	2.5	14
107	Identification of a Hypothetical Protein from <i>Podospora anserina</i> as a Nitroalkane Oxidase. Biochemistry, 2010, 49, 5035-5041.	2.5	14
108	Fluorescence Spectroscopy as a Probe of the Effect of Phosphorylation at Serine 40 of Tyrosine Hydroxylase on the Conformation of Its Regulatory Domain. Biochemistry, 2011, 50, 2364-2370.	2.5	14



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109	HYSCORE Analysis of the Effects of Substrates on Coordination of Water to the Active Site Iron in Tyrosine Hydroxylase. <i>Biochemistry</i> , 2015, 54, 3759-3771.	2.5	14
110	The Amino Acid Specificity for Activation of Phenylalanine Hydroxylase Matches the Specificity for Stabilization of Regulatory Domain Dimers. <i>Biochemistry</i> , 2015, 54, 5167-5174.	2.5	14
111	Role of gangliosides in gonadotropin and cholera enterotoxin stimulated steroidogenesis in isolated rat ovarian cells. <i>Biochemical and Biophysical Research Communications</i> , 1978, 83, 493-500.	2.1	13
112	Characterization of Unstable Products of Flavin- and Pterin-Dependent Enzymes by Continuous-Flow Mass Spectrometry. <i>Biochemistry</i> , 2014, 53, 2672-2679.	2.5	13
113	Identification of a Cysteine Residue in the Active Site of Nitroalkane Oxidase by Modification with N-Ethylmaleimide. <i>Journal of Biological Chemistry</i> , 2000, 275, 31891-31895.	3.4	12
114	Analysis of the roles of amino acid residues in the flavoprotein tryptophan 2-monooxygenase modified by 2-oxo-3-pentynoate: characterization of His338, Cys339, and Cys511 mutant enzymes. <i>Archives of Biochemistry and Biophysics</i> , 2002, 402, 24-30.	3.0	12
115	Mechanistic and Structural Analyses of the Roles of Arg409 and Asp402 in the Reaction of the Flavoprotein Nitroalkane Oxidase. <i>Biochemistry</i> , 2007, 46, 13800-13808.	2.5	11
116	Demonstration of a Peroxide Shunt in the Tetrahydropterin-Dependent Aromatic Amino Acid Monooxygenases. <i>Journal of the American Chemical Society</i> , 2009, 131, 4582-4583.	13.7	11
117	Crystallization and preliminary analysis of active nitroalkane oxidase in three crystal forms. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 1456-1460.	2.5	10
118	Regulation of phenylalanine hydroxylase: Conformational changes upon phosphorylation detected by H/D exchange and mass spectrometry. <i>Archives of Biochemistry and Biophysics</i> , 2013, 535, 115-119.	3.0	10
119	C-terminal COOH of Integrin $\beta^21$ Is Necessary for $\beta^21$ Association with the Kindlin-2 Adapter Protein. <i>Journal of Biological Chemistry</i> , 2014, 289, 11183-11193.	3.4	10
120	Mechanism of Flavoprotein 6-Hydroxynicotine Oxidase: pH and Solvent Isotope Effects and Identification of Key Active Site Residues. <i>Biochemistry</i> , 2017, 56, 869-875.	2.5	10
121	Measurement of the Intramolecular Isotope Effect on Aliphatic Hydroxylation by <i>Chromobacterium violaceum</i> Phenylalanine Hydroxylase. <i>Journal of the American Chemical Society</i> , 2010, 132, 5584-5585.	13.7	9
122	Mutagenesis of a Specificity-Determining Residue in Tyrosine Hydroxylase Establishes That the Enzyme Is a Robust Phenylalanine Hydroxylase but a Fragile Tyrosine Hydroxylase. <i>Biochemistry</i> , 2013, 52, 1446-1455.	2.5	9
123	Kinetic Mechanism and Intrinsic Rate Constants for the Reaction of a Bacterial Phenylalanine Hydroxylase. <i>Biochemistry</i> , 2016, 55, 6848-6857.	2.5	9
124	Phosphorylation of Phenylalanine Hydroxylase Increases the Rate Constant for Formation of the Activated Conformation of the Enzyme. <i>Biochemistry</i> , 2018, 57, 6274-6277.	2.5	9
125	Specificity of the MAP kinase ERK2 for phosphorylation of tyrosine hydroxylase. <i>Archives of Biochemistry and Biophysics</i> , 2004, 423, 247-252.	3.0	8
126	Characterization of metal ligand mutants of phenylalanine hydroxylase: Insights into the plasticity of a 2-histidine-1-carboxylate triad. <i>Archives of Biochemistry and Biophysics</i> , 2008, 475, 164-168.	3.0	8



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127	Mechanistic Studies of an Amine Oxidase Derived from d-Amino Acid Oxidase. <i>Biochemistry</i> , 2017, 56, 2024-2030.	2.5	8
128	The phenylketonuria-associated substitution R68S converts phenylalanine hydroxylase to a constitutively active enzyme but reduces its stability. <i>Journal of Biological Chemistry</i> , 2019, 294, 4359-4367.	3.4	8
129	Mechanistic studies of the role of a conserved histidine in a mammalian polyamine oxidase. <i>Archives of Biochemistry and Biophysics</i> , 2012, 528, 45-49.	3.0	7
130	The amino acid substrate of bovine tyrosine hydroxylase. <i>Neurochemistry International</i> , 1992, 21, 191-196.	3.8	6
131	The regulatory domain of human tryptophan hydroxylase 1 forms a stable dimer. <i>Biochemical and Biophysical Research Communications</i> , 2016, 476, 457-461.	2.1	6
132	<sup>13</sup> C kinetic isotope effects on the reaction of a flavin amine oxidase determined from whole molecule isotope effects. <i>Archives of Biochemistry and Biophysics</i> , 2016, 612, 115-119.	3.0	6
133	Use of a tyrosine hydroxylase mutant enzyme with reduced metal affinity allows detection of activity with cobalt in place of iron. <i>Archives of Biochemistry and Biophysics</i> , 2002, 408, 305-307.	3.0	5
134	Mutagenesis of an Active-Site Loop in Tryptophan Hydroxylase Dramatically Slows the Formation of an Early Intermediate in Catalysis. <i>Journal of the American Chemical Society</i> , 2018, 140, 5185-5192.	13.7	5
135	Evidence for an Essential Arginine in the Flavoprotein Nitroalkane Oxidase. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2001, 16, 157-163.	0.5	3
136	Characterization of active site residues of nitroalkane oxidase. <i>Bioorganic Chemistry</i> , 2010, 38, 115-119.	4.1	3
137	Contrasting Values of Commitment Factors Measured from Viscosity, pH, and Kinetic Isotope Effects: Evidence for Slow Conformational Changes in the d-Amino Acid Oxidase Reaction. <i>Bioorganic Chemistry</i> , 1997, 25, 100-109.	4.1	2
138	Measurement of Kinetic Isotope Effects in an Enzyme-Catalyzed Reaction by Continuous-Flow Mass Spectrometry. <i>Methods in Enzymology</i> , 2017, 596, 149-161.	1.0	2
139	pH and deuterium isotope effects on the reaction of trimethylamine dehydrogenase with dimethylamine. <i>Archives of Biochemistry and Biophysics</i> , 2019, 676, 108136.	3.0	2
140	Mechanism of the Flavoprotein d-6-Hydroxynicotine Oxidase: Substrate Specificity, pH and Solvent Isotope Effects, and Roles of Key Active-Site Residues. <i>Biochemistry</i> , 2019, 58, 2534-2541.	2.5	2
141	Effects of phosphorylation by protein kinase A on binding of catecholamines to the human tyrosine hydroxylase isoforms. <i>Journal of Neurochemistry</i> , 2004, 90, 1280-1280.	3.9	0
142	Highlight issue: Enzymology of drug metabolism and toxicology. <i>Archives of Biochemistry and Biophysics</i> , 2007, 464, 153-154.	3.0	0