

Robert S Phillips

List of Publications by Year in descending order

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212
papers

6,660
citations

66315

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docs citations

222
times ranked

5575
citing authors

#	ARTICLE	IF	CITATIONS
1	The Kynurenine Pathway and Kynurenine 3-Monooxygenase Inhibitors. <i>Molecules</i> , 2022, 27, 273.	1.7	24
2	Crystallographic snapshots of ternary complexes of thermophilic secondary alcohol dehydrogenase from <i>Thermoanaerobacter pseudoethanolicus</i> reveal the dynamics of ligand exchange and the proton relay network. <i>Proteins: Structure, Function and Bioinformatics</i> , 2022, , .	1.5	0
3	The crystal structure of the S154Y mutant carbonyl reductase from <i>Leifsonia xyli</i> explains enhanced activity for 3,5-bis(trifluoromethyl)acetophenone reduction. <i>Archives of Biochemistry and Biophysics</i> , 2022, 720, 109158.	1.4	5
4	M379A Mutant Tyrosine Phenol-lyase from <i>Citrobacter freundii</i> Has Altered Conformational Dynamics. <i>ChemBioChem</i> , 2022, , .	1.3	1
5	Structural Basis of the Stereochemistry of Inhibition of Tryptophan Synthase by Tryptophan and Derivatives. <i>Biochemistry</i> , 2021, 60, 231-244.	1.2	8
6	Secondary Alcohol Dehydrogenases from <i>Thermoanaerobacter pseudoethanolicus</i> and <i>Thermoanaerobacter brockii</i> as Robust Catalysts. <i>ChemBioChem</i> , 2021, 22, 1884-1893.	1.3	13
7	New cases that expand the genotypic and phenotypic spectrum of Congenital NAD Deficiency Disorder. <i>Human Mutation</i> , 2021, 42, 862-876.	1.1	16
8	Structure and Mechanism of d-Glucosaminat-6-phosphate Ammonia-lyase: A Novel Octameric Assembly for a Pyridoxal 5-phosphate-Dependent Enzyme, and Unprecedented Stereochemical Inversion in the Elimination Reaction of a d-Amino Acid. <i>Biochemistry</i> , 2021, 60, 1609-1618.	1.2	3
9	Pressure and Temperature Effects on the Formation of Aminoacrylate Intermediates of Tyrosine Phenol-lyase Demonstrate Reaction Dynamics. <i>ACS Catalysis</i> , 2020, 10, 1692-1703.	5.5	6
10	Oxygen reactivity with pyridoxal 5-phosphate enzymes: biochemical implications and functional relevance. <i>Amino Acids</i> , 2020, 52, 1089-1105.	1.2	12
11	Editorial: PLP-Dependent Enzymes: Extraordinary Versatile Catalysts and Ideal Biotechnological Tools for the Production of Unnatural Amino Acids and Related Compounds. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 52.	2.0	4
12	Crystal Structure of d-Ornithine-d-Lysine Decarboxylase, a Stereoinverting Decarboxylase: Implications for Substrate Specificity and Stereospecificity of Fold III Decarboxylases. <i>Biochemistry</i> , 2019, 58, 1038-1042.	1.2	11
13	The roles of Ser-36, Asp-132 and Asp-201 in the reaction of <i>Pseudomonas fluorescens</i> Kynureninase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019, 1867, 722-731.	1.1	0
14	Editorial: Enzymes Regulating the Homeostasis of Agonists and Antagonists of the N-Methyl D-Aspartate Receptors. <i>Frontiers in Molecular Biosciences</i> , 2019, 6, 37.	1.6	0
15	Editorial: Aromatic Amino Acid Metabolism. <i>Frontiers in Molecular Biosciences</i> , 2019, 6, 22.	1.6	22
16	Modulation of Enzyme Activity in the Kynurenine Pathway by Kynurenine Monooxygenase Inhibition. <i>Frontiers in Molecular Biosciences</i> , 2019, 6, 3.	1.6	32
17	Phosphorylation of pyridoxal 5-phosphate enzymes: an intriguing and neglected topic. <i>Amino Acids</i> , 2018, 50, 205-215.	1.2	5
18	Serine 51 residue of <i>Citrobacter freundii</i> tyrosine phenol-lyase assists in C-H-proton abstraction and transfer in the reaction with substrate. <i>Biochimie</i> , 2018, 147, 63-69.	1.3	5

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19	Properties and mechanism of d -glucosamine-6-phosphate ammonia-lyase: An aminotransferase family enzyme with d -amino acid specificity. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018, 1866, 799-805.	1.1	5
20	The entropic force generated by intrinsically disordered segments tunes protein function. <i>Nature</i> , 2018, 563, 584-588.	13.7	113
21	Crystal Structures of Wild-Type and F448A Mutant <i>Citrobacter freundii</i> Tyrosine Phenol-Lyase Complexed with a Substrate and Inhibitors: Implications for the Reaction Mechanism. <i>Biochemistry</i> , 2018, 57, 6166-6179.	1.2	6
22	The crystal structure of <i>Proteus vulgaris</i> tryptophan indole-lyase complexed with oxindolyl-L-alanine: implications for the reaction mechanism. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 748-759.	1.1	7
23	Substrate and inhibitor specificity of kynurenine monooxygenase from <i>Cytophaga hutchinsonii</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 1705-1708.	1.0	8
24	STM2360 encodes a d-ornithine/d-lysine decarboxylase in <i>Salmonella enterica</i> serovar typhimurium. <i>Archives of Biochemistry and Biophysics</i> , 2017, 634, 83-87.	1.4	5
25	Mutagenesis of Met-151 and Thr-153 to alanine in <i>Thermoanaerobacter ethanolicus</i> secondary alcohol dehydrogenase changes substrate specificity for acetophenones. <i>Enzyme and Microbial Technology</i> , 2017, 105, 59-63.	1.6	3
26	Inhibition of tyrosine phenol-lyase by tyrosine homologues. <i>Amino Acids</i> , 2016, 48, 2243-2251.	1.2	7
27	I86A/C295A mutant secondary alcohol dehydrogenase from <i>Thermoanaerobacter ethanolicus</i> has broadened substrate specificity for aryl ketones. <i>Archives of Biochemistry and Biophysics</i> , 2016, 606, 151-156.	1.4	18
28	Ground-State Destabilization by Phe-448 and Phe-449 Contributes to Tyrosine Phenol-Lyase Catalysis. <i>ACS Catalysis</i> , 2016, 6, 6770-6779.	5.5	20
29	Controlling Substrate Specificity and Stereospecificity of Alcohol Dehydrogenases. <i>ACS Catalysis</i> , 2015, 5, 2100-2114.	5.5	91
30	Chemistry and diversity of pyridoxal-5â€²-phosphate dependent enzymes. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 1167-1174.	1.1	59
31	<i>Thermoanaerobacter ethanolicus</i> secondary alcohol dehydrogenase mutants with improved racemization activity. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 115, 155-159.	1.8	23
32	A Mannose Family Phosphotransferase System Permease and Associated Enzymes Are Required for Utilization of Fructoselysine and Glucoselysine in <i>Salmonella enterica</i> Serovar Typhimurium. <i>Journal of Bacteriology</i> , 2015, 197, 2831-2839.	1.0	22
33	The role of substrate strain in the mechanism of the carbonâ€“carbon lyases. <i>Bioorganic Chemistry</i> , 2014, 57, 198-205.	2.0	9
34	Mutation of <i>Thermoanaerobacter ethanolicus</i> secondary alcohol dehydrogenase at Trp-110 affects stereoselectivity of aromatic ketone reduction. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 5905-5910.	1.5	37
35	A straightforward kinetic evidence for coexistence of â€œinduced fitâ€• and â€œselected fitâ€• in the reaction mechanism of a mutant tryptophan indole lyase Y72F from <i>Proteus vulgaris</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 1860-1867.	1.1	5
36	Inhibition of <i>Escherichia coli</i> tryptophan indole-lyase by tryptophan homologues. <i>Archives of Biochemistry and Biophysics</i> , 2014, 560, 20-26.	1.4	10

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37	Effects of Hydrostatic Pressure on Stereospecificity of Secondary Alcohol Dehydrogenase from <i>Thermoanaerobacter Ethanolicus</i> Support the Role of Solvation in Enantiospecificity. <i>ACS Catalysis</i> , 2014, 4, 692-694.	5.5	10
38	Symbiotic Bacterial Metabolites Regulate Gastrointestinal Barrier Function via the Xenobiotic Sensor PXR and Toll-like Receptor 4. <i>Immunity</i> , 2014, 41, 296-310.	6.6	708
39	Structure and mechanism of kynureninase. <i>Archives of Biochemistry and Biophysics</i> , 2014, 544, 69-74.	1.4	41
40	The phosphate of pyridoxalâ€²â€²phosphate is an acid/base catalyst in the mechanism of <i>Pseudomonas fluorescens</i> kynureninase. <i>FEBS Journal</i> , 2014, 281, 1100-1109.	2.2	8
41	Substituents effects on activity of kynureninase from <i>Homo sapiens</i> and <i>Pseudomonas fluorescens</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 4670-4677.	1.4	4
42	Preparation of 3-bromo-l-tyrosine and 3,5-dibromo-l-tyrosine. <i>Amino Acids</i> , 2013, 44, 529-532.	1.2	3
43	Racemization of enantiopure secondary alcohols by <i>Thermoanaerobacter ethanolicus</i> secondary alcohol dehydrogenase. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 2911.	1.5	31
44	Benzimidazole analogs of <i>l</i> -tryptophan are substrates and inhibitors of tryptophan indole lyase from <i>Escherichia coli</i> . <i>FEBS Journal</i> , 2013, 280, 1807-1817.	2.2	7
45	Hysteresis and Negative Cooperativity in Human UDP-Glucose Dehydrogenase. <i>Biochemistry</i> , 2013, 52, 1456-1465.	1.2	20
46	<i>Salmonella</i> Utilizes D-Glucosaminat via a Mannose Family Phosphotransferase System Permease and Associated Enzymes. <i>Journal of Bacteriology</i> , 2013, 195, 4057-4066.	1.0	26
47	Effects of Pressure and Osmolytes on the Allosteric Equilibria of <i>Salmonella typhimurium</i> Tryptophan Synthase. <i>Biochemistry</i> , 2012, 51, 9354-9363.	1.2	5
48	Evidence of Preorganization in Quinonoid Intermediate Formation from <i>l</i> -Trp in H463F Mutant <i>Escherichia coli</i> Tryptophan Indole-lyase from Effects of Pressure and pH. <i>Biochemistry</i> , 2012, 51, 6527-6533.	1.2	5
49	Preparation and photophysical properties of a caged kynurenine. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 2734-2737.	1.0	9
50	Recent advances in alcohol dehydrogenase-catalyzed asymmetric production of hydrophobic alcohols. <i>Catalysis Science and Technology</i> , 2011, 1, 1311.	2.1	111
51	High pressure: a tool to improve the enzymatic production of glycosides. <i>High Pressure Research</i> , 2011, 31, 475-487.	0.4	1
52	Crystallographic Snapshots of Tyrosine Phenol-lyase Show That Substrate Strain Plays a Role in C=C Bond Cleavage. <i>Journal of the American Chemical Society</i> , 2011, 133, 16468-16476.	6.6	43
53	Properties of tryptophan indole-lyase from a piezophilic bacterium, <i>Photobacterium profundum</i> SS9. <i>Archives of Biochemistry and Biophysics</i> , 2011, 506, 35-41.	1.4	6
54	Structure, mechanism, and substrate specificity of kynureninase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 1481-1488.	1.1	26

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55	A Rare Variant at the <i>KYNU</i> Gene Is Associated With Kynureninase Activity and Essential Hypertension in the Han Chinese Population. <i>Circulation: Cardiovascular Genetics</i> , 2011, 4, 687-694.	5.1	14
56	Pressure-enhanced activity and stability of β -L-rhamnosidase and β -D-glucosidase activities expressed by naringinase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 65, 102-109.	1.8	11
57	Stopped-flow studies of the reaction of <i>scpd</i> tartronate semialdehyde phosphate with human neuronal enolase and yeast enolase 1. <i>FEBS Letters</i> , 2010, 584, 979-983.	1.3	3
58	Effects of hydrostatic pressure on the conformational equilibrium of tryptophan synthase from <i>Salmonella typhimurium</i> . <i>Annals of the New York Academy of Sciences</i> , 2010, 1189, 95-103.	1.8	2
59	Substituent Effects on the Reaction of β -Benzoylalanines with <i>Pseudomonas fluorescens</i> Kynureninase. <i>Biochemistry</i> , 2010, 49, 7913-7919.	1.2	16
60	Insights into the Mechanism of <i>Pseudomonas dacunhae</i> Aspartate β -Decarboxylase from Rapid-Scanning Stopped-Flow Kinetics. <i>Biochemistry</i> , 2010, 49, 5066-5073.	1.2	11
61	Conformational changes and loose packing promote <i>E. coli</i> Tryptophanase cold lability. <i>BMC Structural Biology</i> , 2009, 9, 65.	2.3	14
62	Methionine β -lyase: Mechanistic deductions from the kinetic pH-effects. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009, 1794, 1414-1420.	1.1	13
63	A Single Point Mutation Reverses the Enantioference of <i>Thermoanaerobacter ethanolicus</i> Secondary Alcohol Dehydrogenase. <i>ChemCatChem</i> , 2009, 1, 89-93.	1.8	72
64	Asymmetric Kinetics of Protein Structural Changes. <i>Accounts of Chemical Research</i> , 2009, 42, 778-787.	7.6	12
65	The Crystal Structure of the <i>Pseudomonas dacunhae</i> Aspartate β -Decarboxylase Dodecamer Reveals an Unknown Oligomeric Assembly for a Pyridoxal-5-Phosphate-Dependent Enzyme. <i>Journal of Molecular Biology</i> , 2009, 388, 98-108.	2.0	19
66	Crystal Structure of the <i>Homo sapiens</i> Kynureninase-3-Hydroxyhippuric Acid Inhibitor Complex: Insights into the Molecular Basis Of Kynureninase Substrate Specificity. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 389-396.	2.9	38
67	Regioselective nitration of β ,N1-bis(trifluoroacetyl)-L-tryptophan methyl ester: Efficient synthesis of 2-nitro and 6-nitro-N-trifluoroacetyl-L-tryptophan methyl ester. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 5750-5752.	1.0	6
68	Quantitative effects of allosteric ligands and mutations on conformational equilibria in <i>Salmonella typhimurium</i> tryptophan synthase. <i>Archives of Biochemistry and Biophysics</i> , 2008, 470, 8-19.	1.4	14
69	Activity and selectivity of W110A secondary alcohol dehydrogenase from <i>Thermoanaerobacter ethanolicus</i> in organic solvents and ionic liquids: mono- and biphasic media. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 887.	1.5	50
70	Kynurenine 3-Monooxygenase from <i>Pseudomonas fluorescens</i> : Substrate-like Inhibitors both Stimulate Flavin Reduction and Stabilize the Flavin [•] Peroxo Intermediate yet Result in the Production of Hydrogen Peroxide. <i>Biochemistry</i> , 2008, 47, 12420-12433.	1.2	43
71	Pressure and Temperature Jump Relaxation Kinetics of the Conformational Change in <i>Salmonella typhimurium</i> Tryptophan Synthase I-Serine Complex: Large Activation Compressibility and Heat Capacity Changes Demonstrate the Contribution of Solvation. <i>Journal of the American Chemical Society</i> , 2008, 130, 13580-13588.	6.6	19
72	A <i>Thermoanaerobacter ethanolicus</i> secondary alcohol dehydrogenase mutant derivative highly active and stereoselective on phenylacetone and benzylacetone. <i>Protein Engineering, Design and Selection</i> , 2007, 20, 47-55.	1.0	56

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73	Crystal Structure of Homo sapiens Kynureninase. <i>Biochemistry</i> , 2007, 46, 2735-2744.	1.2	41
74	19F-NMR Reveals Metal and Operator-induced Allostery in MerR. <i>Journal of Molecular Biology</i> , 2007, 371, 79-92.	2.0	26
75	The Second Enzyme in Pyrrolnitrin Biosynthetic Pathway Is Related to the Heme-Dependent Dioxygenase Superfamily. <i>Biochemistry</i> , 2007, 46, 12393-12404.	1.2	28
76	Asymmetric Reduction and Oxidation of Aromatic Ketones and Alcohols Using W110A Secondary Alcohol Dehydrogenase from <i>Thermoanaerobacter ethanolicus</i> . <i>Journal of Organic Chemistry</i> , 2007, 72, 30-34.	1.7	96
77	Xerogel-Encapsulated W110A Secondary Alcohol Dehydrogenase from <i>Thermoanaerobacter ethanolicus</i> Performs Asymmetric Reduction of Hydrophobic Ketones in Organic Solvents. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3091-3094.	7.2	62
78	DEFINING SUBSTRATE SPECIFICITY IN TRYPTOPHAN SYNTHASE BETA SUBUNIT HOMOLOGS. <i>FASEB Journal</i> , 2007, 21, A1018.	0.2	0
79	A redox-active FKBP-type immunophilin functions in accumulation of the photosystem II supercomplex in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 12631-12636.	3.3	123
80	Mass Defect Labeling of Cysteine for Improving Peptide Assignment in Shotgun Proteomic Analyses. <i>Analytical Chemistry</i> , 2006, 78, 3417-3423.	3.2	32
81	Aminoacrylate Intermediates in the Reaction of <i>Citrobacter freundii</i> Tyrosine Phenol-Lyase. <i>Biochemistry</i> , 2006, 45, 9575-9583.	1.2	17
82	A Matrix-Assisted Laser Desorption/Ionization Compatible Reagent for Tagging Tryptophan Residues. <i>European Journal of Mass Spectrometry</i> , 2006, 12, 213-221.	0.5	5
83	Ionization state of pyridoxal 5'-phosphate in d-serine dehydratase, dialkylglycine decarboxylase and tyrosine phenol-lyase and the influence of monovalent cations as inferred by 31P NMR spectroscopy. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 230-238.	1.1	11
84	Tryptophanase from <i>Proteus vulgaris</i> : The conformational rearrangement in the active site, induced by the mutation of Tyrosine 72 to Phenylalanine, and its mechanistic consequences. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 750-757.	1.1	8
85	Protein expression in <i>Escherichia coli</i> S17-1 biofilms: impact of indole. <i>Antonie Van Leeuwenhoek</i> , 2006, 91, 71-85.	0.7	27
86	Crystal structure of the Homo sapiens kynureninase amino-3-hydroxyhippuric acid inhibitor complex. <i>FASEB Journal</i> , 2006, 20, A895.	0.2	0
87	Synthetic Applications of Tryptophan Synthase. <i>ChemInform</i> , 2005, 36, no.	0.1	0
88	Hydrostatic Pressure Affects the Conformational Equilibrium of <i>Salmonella typhimurium</i> Tryptophan Synthase. <i>Biochemistry</i> , 2005, 44, 7921-7928.	1.2	24
89	Differential Effects of Temperature and Hydrostatic Pressure on the Formation of Quinonoid Intermediates from l-Trp and l-Met by H463F Mutant <i>Escherichia coli</i> Tryptophan Indole-lyase. <i>Biochemistry</i> , 2005, 44, 14289-14297.	1.2	5
90	Excited state tautomerization of azaindole. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 3701.	1.5	24

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91	Benzoate Decreases the Binding of cis , cis -Muconate to the BenM Regulator despite the Synergistic Effect of Both Compounds on Transcriptional Activation. <i>Journal of Bacteriology</i> , 2004, 186, 1200-1204.	1.0	26
92	The mechanism of alpha-proton isotope exchange in amino acids catalysed by tyrosine phenol-lyase. What is the role of quinonoid intermediates?. <i>FEBS Journal</i> , 2004, 271, 4565-4571.	0.2	8
93	Tyrosine phenol-lyase and tryptophan indole-lyase encapsulated in wet nanoporous silica gels: Selective stabilization of tertiary conformations. <i>Protein Science</i> , 2004, 13, 913-924.	3.1	32
94	Synthetic applications of tryptophan synthase. <i>Tetrahedron: Asymmetry</i> , 2004, 15, 2787-2792.	1.8	86
95	Reaction of <i>Pseudomonas fluorescens</i> Kynureninase with \hat{I}^2 -Benzoyl-L-alanine: A Detection of a New Reaction Intermediate and a Change in Rate-Determining Step. <i>Biochemistry</i> , 2004, 43, 3230-3237.	1.2	12
96	Three-Dimensional Structure of Kynureninase from <i>Pseudomonas fluorescens</i> . <i>Biochemistry</i> , 2004, 43, 1193-1203.	1.2	27
97	The design and synthesis of a selective inhibitor of fucosyltransferase VI. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 1376.	1.5	7
98	Role of Lysine-256 in <i>Citrobacter freundii</i> Tyrosine Phenol-lyase in Monovalent Cation Activation. <i>Biochemistry</i> , 2004, 43, 14412-14419.	1.2	7
99	The reaction of indole with the aminoacrylate intermediate of <i>Salmonella typhimurium</i> tryptophan synthase: observation of a primary kinetic isotope effect with 3-[2H]indole. <i>Archives of Biochemistry and Biophysics</i> , 2004, 432, 233-243.	1.4	12
100	Tryptophanase in aqueous methanol: the solvent effects and a probable mechanism of the hydrophobic control of substrate specificity. <i>Enzyme and Microbial Technology</i> , 2003, 32, 843-850.	1.6	2
101	Structure and mechanism of tryptophan indole-lyase and tyrosine phenol-lyase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2003, 1647, 167-172.	1.1	39
102	The role of acidic dissociation of substrate's phenol group in the mechanism of tyrosine phenol-lyase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2003, 1647, 260-265.	1.1	10
103	The Photophysical Properties of 6-Azaindole. <i>Journal of Physical Chemistry B</i> , 2003, 107, 637-645.	1.2	29
104	Histidine Ligand Protonation and Redox Potential in the Rieske Dioxygenases: Role of a Conserved Aspartate in Anthranilate 1,2-Dioxygenase. <i>Biochemistry</i> , 2003, 42, 13625-13636.	1.2	38
105	Role of Aspartate-133 and Histidine-458 in the Mechanism of Tryptophan Indole-Lyase from <i>Proteus vulgaris</i> . <i>Biochemistry</i> , 2003, 42, 11161-11169.	1.2	19
106	Indole can act as an extracellular signal to regulate biofilm formation of <i>Escherichia coli</i> and other indole-producing bacteria. <i>Canadian Journal of Microbiology</i> , 2003, 49, 443-449.	0.8	227
107	Differential effects of bromination on substrates and inhibitors of kynureninase from <i>Pseudomonas fluorescens</i> . <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 288-295.	1.5	16
108	Detection of Open and Closed Conformations of Tryptophan Synthase by ^{15}N -Heteronuclear Single-Quantum Coherence Nuclear Magnetic Resonance of Bound L- ^{15}N -Tryptophan. <i>Journal of Biological Chemistry</i> , 2003, 278, 44083-44090.	1.6	24

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109	Kinetics of the Superoxide Reductase Catalytic Cycle. <i>Journal of Biological Chemistry</i> , 2003, 278, 39662-39668.	1.6	51
110	Crystals of Tryptophan Indole-Lyase and Tyrosine Phenol-Lyase Form Stable Quinonoid Complexes. <i>Journal of Biological Chemistry</i> , 2002, 277, 21592-21597.	1.6	26
111	Threonine-124 and phenylalanine-448 in <i>Citrobacter freundii</i> tyrosine phenol-lyase are necessary for activity with L-tyrosine. <i>Biochemical Journal</i> , 2002, 363, 745.	1.7	22
112	Threonine-124 and phenylalanine-448 in <i>Citrobacter freundii</i> tyrosine phenol-lyase are necessary for activity with L-tyrosine. <i>Biochemical Journal</i> , 2002, 363, 745-752.	1.7	25
113	Formation in Vitro of Hybrid Dimers of H463F and Y74F Mutant <i>Escherichia coli</i> Tryptophan Indole-lyase Rescues Activity with L-Tryptophan. <i>Biochemistry</i> , 2002, 41, 4012-4019.	1.2	25
114	Kinetics and Mechanism of Superoxide Reduction by Two-Iron Superoxide Reductase from <i>Desulfovibrio vulgaris</i> . <i>Biochemistry</i> , 2002, 41, 4348-4357.	1.2	90
115	Isolation of an <i>Escherichia coli</i> strain mutant unable to form biofilm on polystyrene and to adhere to human pneumocyte cells: involvement of tryptophanase. <i>Canadian Journal of Microbiology</i> , 2002, 48, 132-137.	0.8	53
116	Tailoring the substrate specificity of secondary alcohol dehydrogenase. <i>Canadian Journal of Chemistry</i> , 2002, 80, 680-685.	0.6	8
117	Cold-induced enzyme inactivation: how does cooling lead to pyridoxal phosphate's aldimine bond cleavage in tryptophanase?. <i>BBA - Proteins and Proteomics</i> , 2002, 1594, 335-340.	2.1	6
118	How does active site water affect enzymatic stereorecognition?. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2002, 19-20, 103-107.	1.8	16
119	The Stereospecificity of Secondary Alcohol Dehydrogenase from <i>Thermoanaerobacter ethanolicus</i> Is Partially Determined by Active Site Water. <i>Journal of the American Chemical Society</i> , 2001, 123, 345-346.	6.6	37
120	Inhibition of Tyrosine Phenol-lyase from <i>Citrobacter freundii</i> by 2-Azatyrosine and 3-Azatyrosine. <i>Biochemistry</i> , 2001, 40, 14862-14868.	1.2	8
121	Investigation of the role of 3-hydroxyanthranilic acid in the degradation of lignin by white-rot fungus <i>Pycnoporus cinnabarinus</i> . <i>Enzyme and Microbial Technology</i> , 2001, 28, 301-307.	1.6	51
122	Enzymatic synthesis of aza-L-tyrosines. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2001, 11, 2099-2100.	1.0	10
123	Mutation of Cysteine-295 to Alanine in Secondary Alcohol Dehydrogenase from <i>Thermoanaerobacter ethanolicus</i> Affects the Enantioselectivity and Substrate Specificity of Ketone Reductions. <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 1659-1666.	1.4	65
124	A Leucine Residue Gates Solvent but Not O ₂ Access to the Binding Pocket of Phascolopsis gouldii Hemerythrin. <i>Journal of Biological Chemistry</i> , 2000, 275, 17043-17050.	1.6	33
125	Asymmetric reduction of ethynyl ketones and ethynylketoesters by secondary alcohol dehydrogenase from <i>Thermoanaerobacter ethanolicus</i> . <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2000, 2821-2825.	1.3	63
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