

# Robert S Phillips

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

207  
papers

5,523  
citations

39  
h-index

62  
g-index

222  
ext. papers

6,100  
ext. citations

5.1  
avg, IF

5.61  
L-index

#	Paper	IF	Citations
207	The Kynurenine Pathway and Kynurenine 3-Monooxygenase Inhibitors.. <i>Molecules</i> , <b>2022</b> , 27,	4.8	3
206	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> , <b>2022</b> , 109158	4.1	0
205	Secondary Alcohol Dehydrogenases from <i>Thermoanaerobacter pseudoethanolicus</i> and <i>Thermoanaerobacter brockii</i> as Robust Catalysts. <i>ChemBioChem</i> , <b>2021</b> , 22, 1884-1893	3.8	4
204	New cases that expand the genotypic and phenotypic spectrum of Congenital NAD Deficiency Disorder. <i>Human Mutation</i> , <b>2021</b> , 42, 862-876	4.7	2
203	Structure and Mechanism of d-Glucosaminat-6-phosphate Ammonia-lyase: A Novel Octameric Assembly for a Pyridoxal 5SPHosphate-Dependent Enzyme, and Unprecedented Stereochemical Inversion in the Elimination Reaction of a d-Amino Acid. <i>Biochemistry</i> , <b>2021</b> , 60, 1609-1618	3.2	1
202	Structural Basis of the Stereochemistry of Inhibition of Tryptophan Synthase by Tryptophan and Derivatives. <i>Biochemistry</i> , <b>2021</b> , 60, 231-244	3.2	4
201	Pressure and Temperature Effects on the Formation of Aminoacrylate Intermediates of Tyrosine Phenol-lyase Demonstrate Reaction Dynamics. <i>ACS Catalysis</i> , <b>2020</b> , 10, 1692-1703	13.1	4
200	Oxygen reactivity with pyridoxal 5SPHosphate enzymes: biochemical implications and functional relevance. <i>Amino Acids</i> , <b>2020</b> , 52, 1089-1105	3.5	5
199	Crystal Structure of d-Ornithine/d-Lysine Decarboxylase, a Stereoinverting Decarboxylase: Implications for Substrate Specificity and Stereospecificity of Fold III Decarboxylases. <i>Biochemistry</i> , <b>2019</b> , 58, 1038-1042	3.2	6
198	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> , <b>2019</b> , 1867, 722-731	4	
197	Modulation of Enzyme Activity in the Kynurenine Pathway by Kynurenine Monooxygenase Inhibition. <i>Frontiers in Molecular Biosciences</i> , <b>2019</b> , 6, 3	5.6	21
196	Phosphorylation of pyridoxal 5SPHosphate enzymes: an intriguing and neglected topic. <i>Amino Acids</i> , <b>2018</b> , 50, 205-215	3.5	3
195	Serine 51 residue of <i>Citrobacter freundii</i> tyrosine phenol-lyase assists in C- $\beta$ -proton abstraction and transfer in the reaction with substrate. <i>Biochimie</i> , <b>2018</b> , 147, 63-69	4.6	4
194	Properties and mechanism of d-glucosaminat-6-phosphate ammonia-lyase: An aminotransferase family enzyme with d-amino acid specificity. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2018</b> , 1866, 799-805	4	2
193	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> , <b>2018</b> , 74, 748-759	5.5	4
192	The entropic force generated by intrinsically disordered segments tunes protein function. <i>Nature</i> , <b>2018</b> , 563, 584-588	50.4	66
191	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> , <b>2018</b> , 57, 6166-6179	3.2	4

190	Substrate and inhibitor specificity of kynurenine monooxygenase from <i>Cytophaga hutchinsonii</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2017</b> , 27, 1705-1708	2.9	7
189	STM2360 encodes a d-ornithine/d-lysine decarboxylase in <i>Salmonella enterica</i> serovar typhimurium. <i>Archives of Biochemistry and Biophysics</i> , <b>2017</b> , 634, 83-87	4.1	3
188	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> , <b>2017</b> , 105, 59-63	3.8	3
187	Ground-State Destabilization by Phe-448 and Phe-449 Contributes to Tyrosine Phenol-Lyase Catalysis. <i>ACS Catalysis</i> , <b>2016</b> , 6, 6770-6779	13.1	14
186	Inhibition of tyrosine phenol-lyase by tyrosine homologues. <i>Amino Acids</i> , <b>2016</b> , 48, 2243-51	3.5	6
185	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> , <b>2016</b> , 606, 151-6	4.1	14
184	<i>Thermoanaerobacter ethanolicus</i> secondary alcohol dehydrogenase mutants with improved racemization activity. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2015</b> , 115, 155-159		19
183	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> , <b>2015</b> , 197, 2831-9	3.5	16
182	Controlling Substrate Specificity and Stereospecificity of Alcohol Dehydrogenases. <i>ACS Catalysis</i> , <b>2015</b> , 5, 2100-2114	13.1	76
181	Chemistry and diversity of pyridoxal-5Sphosphate dependent enzymes. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2015</b> , 1854, 1167-74	4	48
180	A straightforward kinetic evidence for coexistence of "induced fit" and "selected fit" 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> , <b>2014</b> , 1844, 1860-7	4	4
179	Inhibition of <i>Escherichia coli</i> tryptophan indole-lyase by tryptophan homologues. <i>Archives of Biochemistry and Biophysics</i> , <b>2014</b> , 560, 20-6	4.1	5
178	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> , <b>2014</b> , 4, 692-694	13.1	7
177	Symbiotic bacterial metabolites regulate gastrointestinal barrier function via the xenobiotic sensor PXR and Toll-like receptor 4. <i>Immunity</i> , <b>2014</b> , 41, 296-310	32.3	47 <sup>o</sup>
176	Structure and mechanism of kynureninase. <i>Archives of Biochemistry and Biophysics</i> , <b>2014</b> , 544, 69-74	4.1	26
175	The phosphate of pyridoxal-5Sphosphate is an acid/base catalyst in the mechanism of <i>Pseudomonas fluorescens</i> kynureninase. <i>FEBS Journal</i> , <b>2014</b> , 281, 1100-9	5.7	8
174	The role of substrate strain in the mechanism of the carbon-carbon lyases. <i>Bioorganic Chemistry</i> , <b>2014</b> , 57, 198-205	5.1	7
173	Mutation of <i>Thermoanaerobacter ethanolicus</i> secondary alcohol dehydrogenase at Trp-110 affects stereoselectivity of aromatic ketone reduction. <i>Organic and Biomolecular Chemistry</i> , <b>2014</b> , 12, 5905-10	3.9	29

172	Substituents effects on activity of kynureninase from Homo sapiens and Pseudomonas fluorescens. <i>Bioorganic and Medicinal Chemistry</i> , <b>2013</b> , 21, 4670-7	3.4	3
171	Preparation of 3-bromo-L-tyrosine and 3,5-dibromo-L-tyrosine. <i>Amino Acids</i> , <b>2013</b> , 44, 529-32	3.5	1
170	Racemization of enantiopure secondary alcohols by Thermoanaerobacter ethanolicus secondary alcohol dehydrogenase. <i>Organic and Biomolecular Chemistry</i> , <b>2013</b> , 11, 2911-5	3.9	27
169	Benzimidazole analogs of (L)-tryptophan are substrates and inhibitors of tryptophan indole lyase from Escherichia coli. <i>FEBS Journal</i> , <b>2013</b> , 280, 1807-17	5.7	4
168	Hysteresis and negative cooperativity in human UDP-glucose dehydrogenase. <i>Biochemistry</i> , <b>2013</b> , 52, 1456-65	3.2	18
167	Salmonella utilizes D-glucosamininate via a mannose family phosphotransferase system permease and associated enzymes. <i>Journal of Bacteriology</i> , <b>2013</b> , 195, 4057-66	3.5	21
166	Preparation and photophysical properties of a caged kynurenine. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2012</b> , 22, 2734-7	2.9	8
165	Effects of pressure and osmolytes on the allosteric equilibria of Salmonella typhimurium tryptophan synthase. <i>Biochemistry</i> , <b>2012</b> , 51, 9354-63	3.2	5
164	Evidence of preorganization in quinonoid intermediate formation from L-Trp in H463F mutant Escherichia coli tryptophan indole-lyase from effects of pressure and pH. <i>Biochemistry</i> , <b>2012</b> , 51, 6527-33	3.2	5
163	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> , <b>2011</b> , 133, 16468-76	16.4	37
162	Properties of tryptophan indole-lyase from a piezophilic bacterium, Photobacterium profundum SS9. <i>Archives of Biochemistry and Biophysics</i> , <b>2011</b> , 506, 35-41	4.1	3
161	Structure, mechanism, and substrate specificity of kynureninase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2011</b> , 1814, 1481-8	4	20
160	Recent advances in alcohol dehydrogenase-catalyzed asymmetric production of hydrophobic alcohols. <i>Catalysis Science and Technology</i> , <b>2011</b> , 1, 1311	5.5	96
159	High pressure: a tool to improve the enzymatic production of glycosides. <i>High Pressure Research</i> , <b>2011</b> , 31, 475-487	1.6	1
158	A rare variant at the KYNU gene is associated with kynureninase activity and essential hypertension in the Han Chinese population. <i>Circulation: Cardiovascular Genetics</i> , <b>2011</b> , 4, 687-94		10
157	Effects of hydrostatic pressure on the conformational equilibrium of tryptophan synthase from Salmonella typhimurium. <i>Annals of the New York Academy of Sciences</i> , <b>2010</b> , 1189, 95-103	6.5	2
156	Substituent effects on the reaction of beta-benzoylalanines with Pseudomonas fluorescens kynureninase. <i>Biochemistry</i> , <b>2010</b> , 49, 7913-9	3.2	14
155	Insights into the mechanism of Pseudomonas dacunhae aspartate beta-decarboxylase from rapid-scanning stopped-flow kinetics. <i>Biochemistry</i> , <b>2010</b> , 49, 5066-73	3.2	10

154	Pressure-enhanced activity and stability of D-rhamnosidase and D-glucosidase activities expressed by naringinase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2010</b> , 65, 102-109		10
153	Stopped-flow studies of the reaction of D-tartronate semialdehyde-2-phosphate with human neuronal enolase and yeast enolase 1. <i>FEBS Letters</i> , <b>2010</b> , 584, 979-83	3.8	2
152	Conformational changes and loose packing promote E. coli Tryptophanase cold lability. <i>BMC Structural Biology</i> , <b>2009</b> , 9, 65	2.7	14
151	Methionine gamma-lyase: mechanistic deductions from the kinetic pH-effects. The role of the ionic state of a substrate in the enzymatic activity. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2009</b> , 1794, 1414-20	4	10
150	A Single Point Mutation Reverses the Enantiopreference of Thermoanaerobacter ethanolicus Secondary Alcohol Dehydrogenase. <i>ChemCatChem</i> , <b>2009</b> , 1, 89-93	5.2	65
149	Asymmetric kinetics of protein structural changes. <i>Accounts of Chemical Research</i> , <b>2009</b> , 42, 778-87	24.3	11
148	The crystal structure of the Pseudomonas dacunhae aspartate-beta-decarboxylase dodecamer reveals an unknown oligomeric assembly for a pyridoxal-5Sphosphate-dependent enzyme. <i>Journal of Molecular Biology</i> , <b>2009</b> , 388, 98-108	6.5	17
147	Crystal structure of the Homo sapiens kynureninase-3-hydroxyhippuric acid inhibitor complex: insights into the molecular basis of kynureninase substrate specificity. <i>Journal of Medicinal Chemistry</i> , <b>2009</b> , 52, 389-96	8.3	32
146	Quantitative effects of allosteric ligands and mutations on conformational equilibria in Salmonella typhimurium tryptophan synthase. <i>Archives of Biochemistry and Biophysics</i> , <b>2008</b> , 470, 8-19	4.1	13
145	Activity and selectivity of W110A secondary alcohol dehydrogenase from Thermoanaerobacter ethanolicus in organic solvents and ionic liquids: mono- and biphasic media. <i>Organic and Biomolecular Chemistry</i> , <b>2008</b> , 6, 887-92	3.9	44
144	Kynurenine 3-monooxygenase from Pseudomonas fluorescens: substrate-like inhibitors both stimulate flavin reduction and stabilize the flavin-peroxo intermediate yet result in the production of hydrogen peroxide. <i>Biochemistry</i> , <b>2008</b> , 47, 12420-33	3.2	38
143	Pressure and temperature jump relaxation kinetics of the conformational change in Salmonella typhimurium tryptophan synthase L-serine complex: large activation compressibility and heat capacity changes demonstrate the contribution of solvation. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 12750-2	16.4	17
142	Regioselective nitration of N(alpha),N(1)-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> , <b>2008</b> , 18, 5750-2	2.9	4
141	Asymmetric reduction and oxidation of aromatic ketones and alcohols using W110A secondary alcohol dehydrogenase from Thermoanaerobacter ethanolicus. <i>Journal of Organic Chemistry</i> , <b>2007</b> , 72, 30-4	4.2	86
140	Xerogel-encapsulated W110A secondary alcohol dehydrogenase from Thermoanaerobacter ethanolicus performs asymmetric reduction of hydrophobic ketones in organic solvents. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 3091-4	16.4	58
139	A Thermoanaerobacter ethanolicus secondary alcohol dehydrogenase mutant derivative highly active and stereoselective on phenylacetone and benzylacetone. <i>Protein Engineering, Design and Selection</i> , <b>2007</b> , 20, 47-55	1.9	53
138	Crystal structure of Homo sapiens kynureninase. <i>Biochemistry</i> , <b>2007</b> , 46, 2735-44	3.2	36
137	19F-NMR reveals metal and operator-induced allostery in MerR. <i>Journal of Molecular Biology</i> , <b>2007</b> , 371, 79-92	6.5	25

136	The second enzyme in pyrrolo-nitrin biosynthetic pathway is related to the heme-dependent dioxygenase superfamily. <i>Biochemistry</i> , <b>2007</b> , 46, 12393-404	3.2	21
135	Protein expression in Escherichia coli S17-1 biofilms: impact of indole. <i>Antonie Van Leeuwenhoek</i> , <b>2007</b> , 91, 71-85	2.1	23
134	DEFINING SUBSTRATE SPECIFICITY IN TRYPTOPHAN SYNTHASE BETA-SUBUNIT HOMOLOGS. <i>FASEB Journal</i> , <b>2007</b> , 21, A1018	0.9	
133	A redox-active FKBP-type immunophilin functions in accumulation of the photosystem II supercomplex in Arabidopsis thaliana. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 12631-6	11.5	94
132	Mass defect labeling of cysteine for improving peptide assignment in shotgun proteomic analyses. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 3417-23	7.8	32
131	Aminoacrylate intermediates in the reaction of Citrobacter freundii tyrosine phenol-lyase. <i>Biochemistry</i> , <b>2006</b> , 45, 9575-83	3.2	16
130	A matrix-assisted laser desorption/ionization compatible reagent for tagging tryptophan residues. <i>European Journal of Mass Spectrometry</i> , <b>2006</b> , 12, 213-21	1.1	4
129	Ionization state of pyridoxal 5Sphosphate 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> , <b>2006</b> , 1764, 230-8	4	9
128	Tryptophanase from Proteus vulgaris: 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> , <b>2006</b> , 1764, 750-7	4	7
127	Crystal structure of the Homo sapiens kynureninase-2-amino-3-hydroxyhippuric acid inhibitor complex. <i>FASEB Journal</i> , <b>2006</b> , 20, A895	0.9	
126	Hydrostatic pressure affects the conformational equilibrium of Salmonella typhimurium tryptophan synthase. <i>Biochemistry</i> , <b>2005</b> , 44, 7921-8	3.2	22
125	Differential effects of temperature and hydrostatic pressure on the formation of quinonoid intermediates from L-Trp and L-Met by H463F mutant Escherichia coli tryptophan indole-lyase. <i>Biochemistry</i> , <b>2005</b> , 44, 14289-97	3.2	5
124	Excited state tautomerization of azaindole. <i>Organic and Biomolecular Chemistry</i> , <b>2005</b> , 3, 3701-6	3.9	23
123	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> , <b>2004</b> , 186, 1200-4	3.5	21
122	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> , <b>2004</b> , 271, 4565-71		7
121	Tyrosine phenol-lyase and tryptophan indole-lyase encapsulated in wet nanoporous silica gels: Selective stabilization of tertiary conformations. <i>Protein Science</i> , <b>2004</b> , 13, 913-24	6.3	27
120	Synthetic applications of tryptophan synthase. <i>Tetrahedron: Asymmetry</i> , <b>2004</b> , 15, 2787-2792		36
119	Reaction of Pseudomonas fluorescens kynureninase with beta-benzoyl-L-alanine: detection of a new reaction intermediate and a change in rate-determining step. <i>Biochemistry</i> , <b>2004</b> , 43, 3230-7	3.2	12

118	Three-dimensional structure of kynureninase from <i>Pseudomonas fluorescens</i> . <i>Biochemistry</i> , <b>2004</b> , 43, 1193-203	3.2	26
117	The design and synthesis of a selective inhibitor of fucosyltransferase VI. <i>Organic and Biomolecular Chemistry</i> , <b>2004</b> , 2, 1376-80	3.9	7
116	Role of lysine-256 in <i>Citrobacter freundii</i> tyrosine phenol-lyase in monovalent cation activation. <i>Biochemistry</i> , <b>2004</b> , 43, 14412-9	3.2	7
115	The reaction of indole with the aminoacrylate intermediate of <i>Salmonella typhimurium</i> tryptophan synthase: observation of a primary kinetic isotope effect with 3-[(2)H]indole. <i>Archives of Biochemistry and Biophysics</i> , <b>2004</b> , 432, 233-43	4.1	9
114	Kinetics of the superoxide reductase catalytic cycle. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 39662-8	5.4	49
113	Tryptophanase in aqueous methanol: the solvent effects and a probable mechanism of the hydrophobic control of substrate specificity. <i>Enzyme and Microbial Technology</i> , <b>2003</b> , 32, 843-850	3.8	1
112	Structure and mechanism of tryptophan indole-lyase and tyrosine phenol-lyase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2003</b> , 1647, 167-72	4	37
111	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> , <b>2003</b> , 1647, 260-5	4	10
110	The Photophysical Properties of 6-Azaindole. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 637-645	3.4	25
109	Histidine ligand protonation and redox potential in the rieske dioxygenases: role of a conserved aspartate in anthranilate 1,2-dioxygenase. <i>Biochemistry</i> , <b>2003</b> , 42, 13625-36	3.2	34
108	Role of aspartate-133 and histidine-458 in the mechanism of tryptophan indole-lyase from <i>Proteus vulgaris</i> . <i>Biochemistry</i> , <b>2003</b> , 42, 11161-9	3.2	18
107	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> , <b>2003</b> , 49, 443-9	3.2	185
106	Differential effects of bromination on substrates and inhibitors of kynureninase from <i>Pseudomonas fluorescens</i> . <i>Organic and Biomolecular Chemistry</i> , <b>2003</b> , 1, 288-95	3.9	16
105	Detection of open and closed conformations of tryptophan synthase by 15N-heteronuclear single-quantum coherence nuclear magnetic resonance of bound 1-15N-L-tryptophan. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 44083-90	5.4	22
104	Cold-induced enzyme inactivation: how does cooling lead to pyridoxal phosphate-aldimine bond cleavage in tryptophanase?. <i>BBA - Proteins and Proteomics</i> , <b>2002</b> , 1594, 335-40		6
103	How does active site water affect enzymatic stereorecognition?. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2002</b> , 19-20, 103-107		16
102	Crystals of tryptophan indole-lyase and tyrosine phenol-lyase form stable quinonoid complexes. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 21592-7	5.4	24
101	Threonine-124 and phenylalanine-448 in <i>Citrobacter freundii</i> tyrosine phenol-lyase are necessary for activity with L-tyrosine. <i>Biochemical Journal</i> , <b>2002</b> , 363, 745-52	3.8	22

100	Threonine-124 and phenylalanine-448 in <i>Citrobacter freundii</i> tyrosine phenol-lyase are necessary for activity with L-tyrosine. <i>Biochemical Journal</i> , <b>2002</b> , 363, 745-752	3.8	25
99	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> , <b>2002</b> , 41, 4012-9	3.2	22
98	Kinetics and mechanism of superoxide reduction by two-iron superoxide reductase from <i>Desulfovibrio vulgaris</i> . <i>Biochemistry</i> , <b>2002</b> , 41, 4348-57	3.2	87
97	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> , <b>2002</b> , 48, 132-7	3.2	49
96	Tailoring the substrate specificity of secondary alcohol dehydrogenase. <i>Canadian Journal of Chemistry</i> , <b>2002</b> , 80, 680-685	0.9	8
95	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> , <b>2001</b> , 28, 301-307	3.8	42
94	Enzymatic synthesis of aza-L-tyrosines. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2001</b> , 11, 2099-100	2.9	8
93	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> , <b>2001</b> , 9, 1659-66	3.4	56
92	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> , <b>2001</b> , 123, 345-6	16.4	35
91	Inhibition of tyrosine phenol-lyase from <i>Citrobacter freundii</i> by 2-azatyrosine and 3-azatyrosine. <i>Biochemistry</i> , <b>2001</b> , 40, 14862-8	3.2	6
90	A leucine residue "Gates" solvent but not O <sub>2</sub> access to the binding pocket of phascolopsis gouldii hemerythrin. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 17043-50	5.4	28
89	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> , <b>2000</b> , 2821-2825		57
88	The role of glutamic acid-69 in the activation of <i>Citrobacter freundii</i> tyrosine phenol-lyase by monovalent cations. <i>Biochemistry</i> , <b>2000</b> , 39, 8546-55	3.2	20
87	Proton Transfer and Carbon-Carbon Bond Cleavage in the Elimination of Indole Catalyzed by <i>Escherichia coli</i> Tryptophan Indole-Lyase. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 1008-1014	16.4	45
86	The O <sub>2</sub> binding pocket of myohemerythrin: role of a conserved leucine. <i>Biochemistry</i> , <b>2000</b> , 39, 8526-36	3.2	26
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