

T Joseph Kappock

List of Publications by Year in descending order

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36
papers

1,771
citations

331670

21
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377865

34
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36
all docs

36
docs citations

36
times ranked

1747
citing authors

#	ARTICLE	IF	CITATIONS
1	Pterin-Dependent Amino Acid Hydroxylases. <i>Chemical Reviews</i> , 1996, 96, 2659-2756.	47.7	310
2	Diverse carotenoids protect against chemically induced neoplastic transformation. <i>Carcinogenesis</i> , 1991, 12, 671-678.	2.8	252
3	Single-molecule paleoenzymology probes the chemistry of resurrected enzymes. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 592-596.	8.2	182
4	Lipases Provide a New Mechanistic Model for Polyhydroxybutyrate (PHB) Synthases: Characterization of the Functional Residues in <i>Chromatium vinosum</i> PHB Synthase. <i>Biochemistry</i> , 2000, 39, 3927-3936.	2.5	106
5	A Specialized Citric Acid Cycle Requiring Succinyl-Coenzyme A (CoA):Acetate CoA-Transferase (AarC) Confers Acetic Acid Resistance on the Acidophile <i>Acetobacter acetii</i> . <i>Journal of Bacteriology</i> , 2008, 190, 4933-4940.	2.2	99
6	Modular evolution of the purine biosynthetic pathway. <i>Current Opinion in Chemical Biology</i> , 2000, 4, 567-572.	6.1	93
7	X-ray crystal structure of aminoimidazole ribonucleotide synthetase (PurM), from the <i>Escherichia coli</i> purine biosynthetic pathway at 2.5 Å resolution. <i>Structure</i> , 1999, 7, 1155-1166.	3.3	68
8	Spectroscopic Characterization of the Catalytically Competent Ferrous Site of the Resting, Activated, and Substrate-Bound Forms of Phenylalanine Hydroxylase. <i>Journal of the American Chemical Society</i> , 1997, 119, 1901-1915.	13.7	65
9	X-ray Crystal Structure of Glycinamide Ribonucleotide Synthetase from <i>Escherichia coli</i> . <i>Biochemistry</i> , 1998, 37, 15647-15662.	2.5	57
10	Three-Dimensional Structure of N5-Carboxyaminoimidazole Ribonucleotide Synthetase: A Member of the ATP Grasp Protein Superfamily. <i>Biochemistry</i> , 1999, 38, 15480-15492.	2.5	52
11	Crystal structure of <i>Escherichia coli</i> PurE, an unusual mutase in the purine biosynthetic pathway. <i>Structure</i> , 1999, 7, 1395-1406.	3.3	50
12	[6] Solubilization, cellular uptake, and activity of β -carotene and other carotenoids as inhibitors of neoplastic transformation in cultured cells. <i>Methods in Enzymology</i> , 1993, 214, 55-68.	1.0	46
13	Spectroscopic and Kinetic Properties of Unphosphorylated Rat Hepatic Phenylalanine Hydroxylase Expressed in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 1995, 270, 30532-30544.	3.4	43
14	Evidence for the Direct Transfer of the Carboxylate of N5-Carboxyaminoimidazole Ribonucleotide (N5-CAIR) To Generate 4-Carboxy-5-aminoimidazole Ribonucleotide Catalyzed by <i>Escherichia coli</i> PurE, an N5-CAIR Mutase. <i>Biochemistry</i> , 1999, 38, 3012-3018.	2.5	43
15	Structure of a NADH-Insensitive Hexameric Citrate Synthase that Resists Acid Inactivation. <i>Biochemistry</i> , 2006, 45, 13487-13499.	2.5	43
16	Biochemical and Structural Studies of N5-Carboxyaminoimidazole Ribonucleotide Mutase from the Acidophilic Bacterium <i>Acetobacter acetii</i> . <i>Biochemistry</i> , 2006, 45, 8193-8208.	2.5	27
17	Alanine racemase from the acidophile <i>Acetobacter acetii</i> . <i>Protein Expression and Purification</i> , 2007, 51, 39-48.	1.3	25
18	Acidophilic adaptations in the structure of <i>Acetobacter acetii</i> N5-carboxyaminoimidazole ribonucleotide mutase (PurE). <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 1753-1760.	2.5	24

#	ARTICLE	IF	CITATIONS
19	You are lost without a map: Navigating the sea of protein structures. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 258-268.	2.3	24
20	N5-CAIR Mutase: A Role of a CO ₂ Binding Site and Substrate Movement in Catalysis. <i>Biochemistry</i> , 2007, 46, 2842-2855.	2.5	23
21	Crystal Structures of <i>Acetobacter acetii</i> Succinyl-Coenzyme A (CoA):Acetate CoA-Transferase Reveal Specificity Determinants and Illustrate the Mechanism Used by Class I CoA-Transferases. <i>Biochemistry</i> , 2012, 51, 8422-8434.	2.5	22
22	<i>Treponema denticola</i> PurE Is a Bacterial AIR Carboxylase. <i>Biochemistry</i> , 2011, 50, 4623-4637.	2.5	19
23	Formyl-Coenzyme A (CoA):oxalate CoA-transferase from the acidophile <i>Acetobacter acetii</i> has a distinctive electrostatic surface and inherent acid stability. <i>Protein Science</i> , 2012, 21, 686-696.	7.6	18
24	Function and X-Ray crystal structure of <i>Escherichia coli</i> YfdE. <i>PLoS ONE</i> , 2013, 8, e67901.	2.5	13
25	Cloning and transcriptional analysis of <i>Crepis alpina</i> fatty acid desaturases affecting the biosynthesis of crepenynic acid. <i>Journal of Experimental Botany</i> , 2007, 58, 1421-1432.	4.8	12
26	Atomic-resolution crystal structure of thioredoxin from the acidophilic bacterium <i>Acetobacter acetii</i> . <i>Protein Science</i> , 2006, 16, 92-98.	7.6	11
27	Functional analysis of the acetic acid resistance (<i>aar</i>) gene cluster in <i>Acetobacter acetii</i> strain 1023. <i>Acetic Acid Bacteria</i> , 2013, 2, 3.	1.0	11
28	The Partial Substrate Dethiaacetyl-Coenzyme A Mimics All Critical Carbon Acid Reactions in the Condensation Half-Reaction Catalyzed by <i>Thermoplasma acidophilum</i> Citrate Synthase. <i>Biochemistry</i> , 2009, 48, 7878-7891.	2.5	9
29	An active site-tail interaction in the structure of hexahistidine-tagged <i>Thermoplasma acidophilum</i> citrate synthase. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015, 71, 1292-1299.	0.8	7
30	Multiple Active Site Histidine Protonation States in <i>Acetobacter acetii</i> N5-Carboxyaminoimidazole Ribonucleotide Mutase Detected by REDOR NMR. <i>Biochemistry</i> , 2007, 46, 9507-9512.	2.5	4
31	Draft Genome Sequence of <i>Acetobacter acetii</i> Strain 1023, a Vinegar Factory Isolate. <i>Genome Announcements</i> , 2014, 2, .	0.8	4
32	Metal stopping reagents facilitate discontinuous activity assays of the de novo purine biosynthesis enzyme PurE. <i>Analytical Biochemistry</i> , 2014, 452, 43-45.	2.4	3
33	Functional Dissection of the Bipartite Active Site of the Class I Coenzyme A (CoA)-Transferase Succinyl-CoA:Acetate CoA-Transferase. <i>Frontiers in Chemistry</i> , 2016, 4, 23.	3.6	3
34	The Purine Machine Scores a Base Hit. <i>ACS Chemical Biology</i> , 2008, 3, 460-462.	3.4	2
35	Altered Pathway Routing in a Class of <i>Salmonella enterica</i> Serovar Typhimurium Mutants Defective in Aminoimidazole Ribonucleotide Synthetase. <i>Journal of Bacteriology</i> , 2001, 183, 2234-2240.	2.2	1
36	A Biosynthetic Enzyme Worms Its Way out of a Conserved Mechanism. <i>Structure</i> , 2013, 21, 1719-1720.	3.3	0