

# T Joseph Kappock

## 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.

36  
papers

1,527  
citations

18  
h-index

36  
g-index

36  
ext. papers

1,653  
ext. citations

6.6  
avg, IF

4.01  
L-index

#	Paper	IF	Citations
36	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> , <b>2016</b> , 4, 23	5	3
35	You are lost without a map: Navigating the sea of protein structures. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2015</b> , 1854, 258-68	4	16
34	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> , <b>2015</b> , 71, 1292-9	1.1	6
33	Draft Genome Sequence of <i>Acetobacter aceti</i> Strain 1023, a Vinegar Factory Isolate. <i>Genome Announcements</i> , <b>2014</b> , 2,		3
32	Metal stopping reagents facilitate discontinuous activity assays of the de novo purine biosynthesis enzyme PurE. <i>Analytical Biochemistry</i> , <b>2014</b> , 452, 43-5	3.1	2
31	A biosynthetic enzyme worms its way out of a conserved mechanism. <i>Structure</i> , <b>2013</b> , 21, 1719-20	5.2	
30	Functional analysis of the acetic acid resistance (aar) gene cluster in <i>Acetobacter aceti</i> strain 1023. <i>Acetic Acid Bacteria</i> , <b>2013</b> , 2, 3		7
29	Function and X-ray crystal structure of <i>Escherichia coli</i> YfdE. <i>PLoS ONE</i> , <b>2013</b> , 8, e67901	3.7	8
28	Crystal structures of <i>Acetobacter aceti</i> succinyl-coenzyme A (CoA):acetate CoA-transferase reveal specificity determinants and illustrate the mechanism used by class I CoA-transferases. <i>Biochemistry</i> , <b>2012</b> , 51, 8422-34	3.2	17
27	Formyl-coenzyme A (CoA):oxalate CoA-transferase from the acidophile <i>Acetobacter aceti</i> has a distinctive electrostatic surface and inherent acid stability. <i>Protein Science</i> , <b>2012</b> , 21, 686-96	6.3	14
26	Single-molecule paleoenzymology probes the chemistry of resurrected enzymes. <i>Nature Structural and Molecular Biology</i> , <b>2011</b> , 18, 592-6	17.6	149
25	<i>Treponema denticola</i> PurE Is a bacterial AIR carboxylase. <i>Biochemistry</i> , <b>2011</b> , 50, 4623-37	3.2	15
24	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> , <b>2009</b> , 48, 7878-91	3.2	8
23	The purine machine scores a base hit. <i>ACS Chemical Biology</i> , <b>2008</b> , 3, 460-2	4.9	1
22	A specialized citric acid cycle requiring succinyl-coenzyme A (CoA):acetate CoA-transferase (AarC) confers acetic acid resistance on the acidophile <i>Acetobacter aceti</i> . <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 4933-40	3.5	77
21	N5-CAIR mutase: role of a CO <sub>2</sub> binding site and substrate movement in catalysis. <i>Biochemistry</i> , <b>2007</b> , 46, 2842-55	3.2	18
20	Multiple active site histidine protonation states in <i>Acetobacter aceti</i> N5-carboxyaminoimidazole ribonucleotide mutase detected by REDOR NMR. <i>Biochemistry</i> , <b>2007</b> , 46, 9507-12	3.2	4

19	Cloning and transcriptional analysis of <i>Crepis alpina</i> fatty acid desaturases affecting the biosynthesis of crepenynic acid. <i>Journal of Experimental Botany</i> , <b>2007</b> , 58, 1421-32	7	11
18	Alanine racemase from the acidophile <i>Acetobacter aceti</i> . <i>Protein Expression and Purification</i> , <b>2007</b> , 51, 39-48	2	21
17	Atomic-resolution crystal structure of thioredoxin from the acidophilic bacterium <i>Acetobacter aceti</i> . <i>Protein Science</i> , <b>2007</b> , 16, 92-8	6.3	10
16	Structure of a NADH-insensitive hexameric citrate synthase that resists acid inactivation. <i>Biochemistry</i> , <b>2006</b> , 45, 13487-99	3.2	38
15	Biochemical and structural studies of N5-carboxyaminoimidazole ribonucleotide mutase from the acidophilic bacterium <i>Acetobacter aceti</i> . <i>Biochemistry</i> , <b>2006</b> , 45, 8193-208	3.2	26
14	Acidophilic adaptations in the structure of <i>Acetobacter aceti</i> N5-carboxyaminoimidazole ribonucleotide mutase (PurE). <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2004</b> , 60, 1753-60		20
13	Altered pathway routing in a class of <i>Salmonella enterica</i> serovar Typhimurium mutants defective in aminoimidazole ribonucleotide synthetase. <i>Journal of Bacteriology</i> , <b>2001</b> , 183, 2234-40	3.5	1
12	Modular evolution of the purine biosynthetic pathway. <i>Current Opinion in Chemical Biology</i> , <b>2000</b> , 4, 567-377		69
11	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> , <b>2000</b> , 39, 3927-36	3.2	97
10	Crystal structure of <i>Escherichia coli</i> PurE, an unusual mutase in the purine biosynthetic pathway. <i>Structure</i> , <b>1999</b> , 7, 1395-406	5.2	41
9	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> , <b>1999</b> , 7, 1155-66	5.2	61
8	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> , <b>1999</b> , 38, 3012-8	3.2	36
7	Three-dimensional structure of N5-carboxyaminoimidazole ribonucleotide synthetase: a member of the ATP grasp protein superfamily. <i>Biochemistry</i> , <b>1999</b> , 38, 15480-92	3.2	50
6	X-ray crystal structure of glycinamide ribonucleotide synthetase from <i>Escherichia coli</i> . <i>Biochemistry</i> , <b>1998</b> , 37, 15647-62	3.2	49
5	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> , <b>1997</b> , 119, 1901-1915	16.4	55
4	Pterin-Dependent Amino Acid Hydroxylases. <i>Chemical Reviews</i> , <b>1996</b> , 96, 2659-2756	68.1	275
3	Spectroscopic and kinetic properties of unphosphorylated rat hepatic phenylalanine hydroxylase expressed in <i>Escherichia coli</i> . Comparison of resting and activated states. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 30532-44	5.4	41
2	Solubilization, cellular uptake, and activity of beta-carotene and other carotenoids as inhibitors of neoplastic transformation in cultured cells. <i>Methods in Enzymology</i> , <b>1993</b> , 214, 55-68	1.7	43

- 1 Diverse carotenoids protect against chemically induced neoplastic transformation. *Carcinogenesis*, **1991**, 12, 671-8 4.6 235