Steven E Ealick

List of Publications by Citations

35 papers	1,291 citations	17 h-index	35 g-index
35 ext. papers	1,475 ext. citations	9.4 avg, IF	4.05 L-index

#	Paper	IF	Citations
35	Thiamin biosynthesis in prokaryotes. *Archives of Microbiology*, **1999**, 171, 293-300	3	237
34	Structural analyses reveal two distinct families of nucleoside phosphorylases. *Biochemical Journal*, **2002**, 361, 1-25	3.8	172
33	Diphthamide biosynthesis requires an organic radical generated by an iron-sulphur enzyme. *Nature*, **2010**, 465, 891-6	50.4	153
32	Structural insights into the mechanism of the PLP synthase holoenzyme from Thermotoga maritima. *Biochemistry*, **2006**, 45, 14609-20	3.2	71
31	Crystal structure of 4-methyl-5-beta-hydroxyethylthiazole kinase from Bacillus subtilis at 1.5 A resolution. *Biochemistry*, **2000**, 39, 7868-77	3.2	62
30	Radical S-adenosylmethionine (SAM) enzymes in cofactor biosynthesis: a treasure trove of complex organic radical rearrangement reactions. *Journal of Biological Chemistry*, **2015**, 290, 3980-6	5.4	53
29	Structure of a human S-adenosylmethionine decarboxylase self-processing ester intermediate and mechanism of putrescine stimulation of processing as revealed by the H243A mutant. *Biochemistry*, **2001**, 40, 9495-504	3.2	52
28	Co-opting sulphur-carrier proteins from primary metabolic pathways for 2-thiosugar biosynthesis. *Nature*, **2014**, 510, 427-31	50.4	51
27	X-ray crystal structure of glycinamide ribonucleotide synthetase from Escherichia coli. *Biochemistry*, **1998**, 37, 15647-62	3.2	49
26	Structural studies of viperin, an antiviral radical SAM enzyme. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 6806-6811	11.5	46
25	Structural characterization of the enzyme-substrate, enzyme-intermediate, and enzyme-product complexes of thiamin phosphate synthase. *Biochemistry*, **2001**, 40, 10103-14	3.2	42
24	Crystal structure of thiamin phosphate synthase from Bacillus subtilis at 1.25 A resolution. *Biochemistry*, **1999**, 38, 6460-70	3.2	39
23	Organometallic and radical intermediates reveal mechanism of diphthamide biosynthesis. *Science*, **2018**, 359, 1247-1250	33.3	32
22	Crystal structure of thiaminase-I from Bacillus thiaminolyticus at 2.0 A resolution. *Biochemistry*, **1998**, 37, 15981-9	3.2	32
21	Anaerobic 5-Hydroxybenzimidazole Formation from Aminoimidazole Ribotide: An Unanticipated Intersection of Thiamin and Vitamin B12 Biosynthesis. *Journal of the American Chemical Society*, **2015**, 137, 10444-7	16.4	21
20	Non-canonical active site architecture of the radical SAM thiamin pyrimidine synthase. *Nature Communications*, **2015**, 6, 6480	17.4	21
19	From Suicide Enzyme to Catalyst: The Iron-Dependent Sulfide Transfer in Methanococcus jannaschii Thiamin Thiazole Biosynthesis. *Journal of the American Chemical Society*, **2016**, 138, 3639-42	16.4	21

18	Substrate-Dependent Cleavage Site Selection by Unconventional Radical S-Adenosylmethionine Enzymes in Diphthamide Biosynthesis. *Journal of the American Chemical Society*, **2017**, 139, 5680-5683	16.4	17
17	Lyme disease spirochaete Borrelia burgdorferi does not require thiamin. *Nature Microbiology*, **2016**, 2, 16213	26.6	16
16	Structural Basis for Iron-Mediated Sulfur Transfer in Archael and Yeast Thiazole Synthases. *Biochemistry*, **2016**, 55, 1826-38	3.2	14
15	Lysine relay mechanism coordinates intermediate transfer in vitamin B6 biosynthesis. *Nature Chemical Biology*, **2017**, 13, 290-294	11.7	13
14	Structural Basis of the Substrate Selectivity of Viperin. *Biochemistry*, **2020**, 59, 652-662	3.2	12
13	Different polyamine pathways from bacteria have replaced eukaryotic spermidine biosynthesis in ciliates Tetrahymena thermophila and Paramecium tetaurelia. *Molecular Microbiology*, **2015**, 97, 791-807	4.1	11
12	Crystal Structures of the Iron-Sulfur Cluster-Dependent Quinolinate Synthase in Complex with Dihydroxyacetone Phosphate, Iminoaspartate Analogues, and Quinolinate. *Biochemistry*, **2016**, 55, 4135-9	3.2	10
11	Ethenoguanines undergo glycosylation by nucleoside 2∀deoxyribosyltransferases at non-natural sites. *PLoS ONE*, **2014**, 9, e115082	3.7	9
10	Burkholderia glumae ToxA Is a Dual-Specificity Methyltransferase That Catalyzes the Last Two Steps of Toxoflavin Biosynthesis. *Biochemistry*, **2016**, 55, 2748-59	3.2	8
9	Polyketide Ring Expansion Mediated by a Thioesterase, Chain Elongation and Cyclization Domain, in Azinomycin Biosynthesis: Characterization of AziB and AziG. *Biochemistry*, **2016**, 55, 704-14	3.2	6
8	Towards the structural characterization of the human methyltransferome. *Current Opinion in Structural Biology*, **2018**, 53, 12-21	8.1	4
7	Menaquinone Biosynthesis: Biochemical and Structural Studies of Chorismate Dehydratase. *Biochemistry*, **2019**, 58, 1837-1840	3.2	3
6	The Crystal Structure of Dph2 in Complex with Elongation Factor 2 Reveals the Structural Basis for the First Step of Diphthamide Biosynthesis. *Biochemistry*, **2019**, 58, 4343-4351	3.2	3
5	Biochemical Characterization and Structural Basis of Reactivity and Regioselectivity Differences between Burkholderia thailandensis and Burkholderia glumae 1,6-Didesmethyltoxoflavin N-Methyltransferase. *Biochemistry*, **2017**, 56, 3934-3944	3.2	3
4	Biochemical and structural characterization of Klebsiella pneumoniae oxamate amidohydrolase in the uric acid degradation pathway. *Acta Crystallographica Section D: Structural Biology*, **2016**, 72, 808-16	5.5	3
3	Structural basis of elongation factor 2 switching. *Current Research in Structural Biology*, **2020**, 2, 25-34	2.8	3
2	The use of Trichomonas vaginalis purine nucleoside phosphorylase to activate fludarabine in the treatment of solid tumors. *Cancer Chemotherapy and Pharmacology*, **2020**, 85, 573-583	3.5	2
1	Trapping and structural characterisation of a covalent intermediate in vitamin B biosynthesis catalysed by the Pdx1 PLP synthase.. *RSC Chemical Biology*, **2022**, 3, 227-230	3	