Nathan A Bruender

List of Publications by Year
in descending order

18 papers	446 citations	759233 12 h-index	888059 17 g-index
19 all docs	19 docs citations	19 times ranked	426 citing authors

#	Article	IF	Citations
1	Radical SAM enzyme QueE defines a new minimal core fold and metal-dependent mechanism. Nature Chemical Biology, 2014, 10, 106-112.	8.0	71
2	Biochemical and Spectroscopic Characterization of a Radical S-Adenosyl-<scp>l</scp>-methionine Enzyme Involved in the Formation of a Peptide Thioether Cross-Link. Biochemistry, 2016, 55, 2122-2134.	2.5	55
3	The Radical S-Adenosyl-<scp>l</scp>-methionine Enzyme MftC Catalyzes an Oxidative Decarboxylation of the C-Terminus of the MftA Peptide. Biochemistry, 2016, 55, 2813-2816.	2.5	52
4	Structural and spectroscopic analyses of the sporulation killing factor biosynthetic enzyme SkfB, a bacterial AdoMet radical sactisynthase. Journal of Biological Chemistry, 2018, 293, 17349-17361.	3.4	43
5	X-ray Structure of KijD3, a Key Enzyme Involved in the Biosynthesis of <scp>d</scp>-Kijanose. Biochemistry, 2010, 49, 3517-3524.	2.5	32
6	Chemical and Biological Reduction of the Radical SAM Enzyme CPH₄ Synthase. Biochemistry, 2015, 54, 2903-2910.	2.5	31
7	SkfB Abstracts a Hydrogen Atom from C_{Î±} on SkfA To Initiate Thioether Cross-Link Formation. Biochemistry, 2016, 55, 4131-4134.	2.5	31
8	7-Carboxy-7-deazaguanine Synthase: A Radical S-Adenosyl-<scp>l</scp>-methionine Enzyme with Polar Tendencies. Journal of the American Chemical Society, 2017, 139, 1912-1920.	13.7	30
9	A Radical Clock Probe Uncouples H Atom Abstraction from Thioether Cross-Link Formation by the Radical S-Adenosyl-<scp>l</scp>-methionine Enzyme SkfB. Biochemistry, 2018, 57, 4816-4823.	2.5	19
10	Active Site Architecture of a Sugar N-Oxygenase. Biochemistry, 2013, 52, 3191-3193.	2.5	16
11	A Radical Intermediate in Bacillus subtilis QueE during Turnover with the Substrate Analogue 6-Carboxypterin. Journal of the American Chemical Society, 2018, 140, 1753-1759.	13.7	15
12	Molecular Architecture of a C-3â€²-Methyltransferase Involved in the Biosynthesis of <scp>d</scp>-Tetronitrose. Biochemistry, 2010, 49, 5891-5898.	2.5	14
13	The Creatininase Homolog MftE from Mycobacterium smegmatis Catalyzes a Peptide Cleavage Reaction in the Biosynthesis of a Novel Ribosomally Synthesized Post-translationally Modified Peptide (RiPP). Journal of Biological Chemistry, 2017, 292, 4371-4381.	3.4	14
14	Crystal structure of AdoMet radical enzyme 7â€carboxyâ€7â€deazaguanine synthase from <scp>Escherichia coli</scp> suggests how modifications near [4Feâ€“4S] cluster engender flavodoxin specificity. Protein Science, 2019, 28, 202-215.	7.6	11
15	QueE: A Radical SAM Enzyme Involved in the Biosynthesis of 7-Deazapurine Containing Natural Products. Methods in Enzymology, 2018, 606, 95-118.	1.0	6
16	Probing the catalytic mechanism of a Câ€3â€²â€methyltransferase involved in the biosynthesis of <scp>D</scp>â€tetronitrose. Protein Science, 2012, 21, 876-886.	7.6	5
17	Investigation of the Radical SAM Enzyme CDG Synthase. FASEB Journal, 2015, 29, 572.12.	0.5	0
18	The Investigation on the Effect Asn123Gly mutation in the Enzyme Pyrrolineâ€5â€Carboxylate Reductase. FASEB Journal, 2022, 36, .	0.5	0