Alhosna Benjdia

List of Publications by Year
in descending order

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36 papers	1,718 citations	257450 24 h-index	395702 33 g-index
38 all docs	38 docs citations	38 times ranked	1575 citing authors

#	Article	IF	Citations
1	Sulfatases and a Radical S-Adenosyl-l-methionine (AdoMet) Enzyme Are Key for Mucosal Foraging and Fitness of the Prominent Human Gut Symbiont, Bacteroides thetaiotaomicron. Journal of Biological Chemistry, 2011, 286, 25973-25982.	3.4	134
2	A New Type of Bacterial Sulfatase Reveals a Novel Maturation Pathway in Prokaryotes. Journal of Biological Chemistry, 2006, 281, 22464-22470.	3.4	108
3	Thiostrepton tryptophan methyltransferase expands the chemistry of radical SAM enzymes. Nature Chemical Biology, 2012, 8, 957-959.	8.0	105
4	Characterization of Glycosaminoglycan (GAG) Sulfatases from the Human Gut Symbiont Bacteroides thetaiotaomicron Reveals the First GAG-specific Bacterial Endosulfatase. Journal of Biological Chemistry, 2014, 289, 24289-24303.	3.4	90
5	Post-translational modification of ribosomally synthesized peptides by a radical SAM epimerase in Bacillus subtilis. Nature Chemistry, 2017, 9, 698-707.	13.6	88
6	An efficient, multiply promiscuous hydrolase in the alkaline phosphatase superfamily. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2740-2745.	7.1	87
7	The B₁₂-Radical SAM Enzyme PoyC Catalyzes Valine C_{Î²}-Methylation during Polytheonamide Biosynthesis. Journal of the American Chemical Society, 2016, 138, 15515-15518.	13.7	81
8	Radical SAM Enzymes in the Biosynthesis of Ribosomally Synthesized and Post-translationally Modified Peptides (RiPPs). Frontiers in Chemistry, 2017, 5, 87.	3.6	77
9	Structural insights into recognition and repair of UV-DNA damage by Spore Photoproduct Lyase, a radical SAM enzyme. Nucleic Acids Research, 2012, 40, 9308-9318.	14.5	73
10	Carbonâ€“sulfur bond-forming reaction catalysed by the radical SAM enzyme HydE. Nature Chemistry, 2016, 8, 491-500.	13.6	72
11	Biosynthesis of F₀, Precursor of the F₄₂₀ Cofactor, Requires a Unique Two Radical-SAM Domain Enzyme and Tyrosine as Substrate. Journal of the American Chemical Society, 2012, 134, 18173-18176.	13.7	66
12	Anaerobic Sulfatase-maturating Enzymes, First Dual Substrate Radical S-Adenosylmethionine Enzymes. Journal of Biological Chemistry, 2008, 283, 17815-17826.	3.4	64
13	Anaerobic Sulfatase-Maturating Enzymes:Â Radical SAM Enzymes Able To Catalyze in Vitro Sulfatase Post-translational Modification. Journal of the American Chemical Society, 2007, 129, 3462-3463.	13.7	61
14	The thiostrepton A tryptophan methyltransferase TsrM catalyses a cob(II)alamin-dependent methyl transfer reaction. Nature Communications, 2015, 6, 8377.	12.8	57
15	Anaerobic sulfataseâ€maturating enzyme â€“ A mechanistic link with glycyl radicalâ€activating enzymes?. FEBS Journal, 2010, 277, 1906-1920.	4.7	55
16	Thioether bond formation by SPASM domain radical SAM enzymes: C_{Î±} H-atom abstraction in subtilosin A biosynthesis. Chemical Communications, 2016, 52, 6249-6252.	4.1	50
17	Mechanistic Investigations of PoyD, a Radical S-Adenosyl-<scp>l</scp>-methionine Enzyme Catalyzing Iterative and Directional Epimerizations in Polytheonamide A Biosynthesis. Journal of the American Chemical Society, 2018, 140, 2469-2477.	13.7	48
18	Ruminococcin C, an anti-clostridial sactipeptide produced by a prominent member of the human microbiota Ruminococcus gnavus. Journal of Biological Chemistry, 2019, 294, 14512-14525.	3.4	46

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19	First evidences for a third sulfatase maturation system in prokaryotes fromE. coli aslBandydeMdeletion mutants. FEBS Letters, 2007, 581, 1009-1014.	2.8	43
20	Mechanistic Investigations of Anaerobic Sulfatase-Maturating Enzyme: Direct C_{Î²} H-Atom Abstraction Catalyzed by a Radical AdoMet Enzyme. Journal of the American Chemical Society, 2009, 131, 8348-8349.	13.7	39
21	A Radical Transfer Pathway in Spore Photoproduct Lyase. Biochemistry, 2013, 52, 3041-3050.	2.5	32
22	Sulfatases and radical SAM enzymes: emerging themes in glycosaminoglycan metabolism and the human microbiota. Biochemical Society Transactions, 2016, 44, 109-115.	3.4	31
23	DNA photolyases and SP lyase: structure and mechanism of light-dependent and independent DNA lyases. Current Opinion in Structural Biology, 2012, 22, 711-720.	5.7	29
24	The Epipeptide YydF Intrinsically Triggers the Cell Envelope Stress Response of Bacillus subtilis and Causes Severe Membrane Perturbations. Frontiers in Microbiology, 2020, 11, 151.	3.5	29
25	Crystallographic snapshots of a B12-dependent radical SAM methyltransferase. Nature, 2022, 602, 336-342.	27.8	28
26	Gold-Catalyzed Spirocyclization Reactions of N-Propargyl Tryptamines and Tryptophans in Aqueous Media. Organic Letters, 2020, 22, 4344-4349.	4.6	26
27	Insights into the catalysis of a lysine-tryptophan bond in bacterial peptides by a SPASM domain radical S-adenosylmethionine (SAM) peptide cyclase. Journal of Biological Chemistry, 2017, 292, 10835-10844.	3.4	19
28	Biosynthesis of the sactipeptide Ruminococcin C by the human microbiome: Mechanistic insights into thioether bond formation by radical SAM enzymes. Journal of Biological Chemistry, 2020, 295, 16665-16677.	3.4	18
29	Rescuing DNA repair activity by rewiring the H-atom transfer pathway in the radical SAM enzyme, spore photoproduct lyase. Chemical Communications, 2014, 50, 14201-14204.	4.1	16
30	Radical SAM Enzymes and Ribosomallyâ€Synthesized and Postâ€translationally Modified Peptides: A Growing Importance in the Microbiomes. Frontiers in Chemistry, 2021, 9, 678068.	3.6	16
31	DNA Repair by the Radical SAM Enzyme Spore Photoproduct Lyase: From Biochemistry to Structural Investigations. Photochemistry and Photobiology, 2017, 93, 67-77.	2.5	15
32	Chondroitin-4-O-sulfatase from Bacteroides thetaiotaomicron: exploration of the substrate specificity. Carbohydrate Research, 2012, 353, 96-99.	2.3	8
33	Exploring the Biosynthetic Potential of TsrM, a B₁₂â€dependent Radical SAM Methyltransferase Catalyzing Nonâ€radical Reactions. Chemistry - A European Journal, 2022, 28, .	3.3	7
34	Correction to A Radical Transfer Pathway in Spore Photoproduct Lyase. Biochemistry, 2013, 52, 4869-4869.	2.5	0
35	Structural Perspectives on the Mechanism of the Radical SAM Enzyme, Spore Photoproduct Lyase. FASEB Journal, 2015, 29, 895.14.	0.5	0
36	Radically New Methylation Reactions in Antibiotic Biosynthesis: Insights into the Mechanism of B 12 â€dependent Radical SAM enzymes.. FASEB Journal, 2015, 29, 573.39.	0.5	0