

Alhosna Benjdia

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Crystallographic snapshots of a B12-dependent radical SAM methyltransferase. <i>Nature</i> , 2022, 602, 336-342. | 27.8 | 28 |
| 2 | Exploring the Biosynthetic Potential of TsrM, a B ₁₂ -dependent Radical SAM Methyltransferase Catalyzing Non-radical Reactions. <i>Chemistry - A European Journal</i> , 2022, 28, . | 3.3 | 7 |
| 3 | Radical SAM Enzymes and Ribosomally-Synthesized and Post-translationally Modified Peptides: A Growing Importance in the Microbiomes. <i>Frontiers in Chemistry</i> , 2021, 9, 678068. | 3.6 | 16 |
| 4 | Biosynthesis of the sactipeptide Ruminococcin C by the human microbiome: Mechanistic insights into thioether bond formation by radical SAM enzymes. <i>Journal of Biological Chemistry</i> , 2020, 295, 16665-16677. | 3.4 | 18 |
| 5 | Gold-Catalyzed Spirocyclization Reactions of <i>N</i> -Propargyl Tryptamines and Tryptophans in Aqueous Media. <i>Organic Letters</i> , 2020, 22, 4344-4349. | 4.6 | 26 |
| 6 | The Epeptide YydF Intrinsically Triggers the Cell Envelope Stress Response of <i>Bacillus subtilis</i> and Causes Severe Membrane Perturbations. <i>Frontiers in Microbiology</i> , 2020, 11, 151. | 3.5 | 29 |
| 7 | Ruminococcin C, an anti-clostridial sactipeptide produced by a prominent member of the human microbiota <i>Ruminococcus gnavus</i> . <i>Journal of Biological Chemistry</i> , 2019, 294, 14512-14525. | 3.4 | 46 |
| 8 | Mechanistic Investigations of PoyD, a Radical <i>S</i> -Adenosyl-methionine Enzyme Catalyzing Iterative and Directional Epimerizations in Polytheonamide A Biosynthesis. <i>Journal of the American Chemical Society</i> , 2018, 140, 2469-2477. | 13.7 | 48 |
| 9 | DNA Repair by the Radical SAM Enzyme Spore Photoproduct Lyase: From Biochemistry to Structural Investigations. <i>Photochemistry and Photobiology</i> , 2017, 93, 67-77. | 2.5 | 15 |
| 10 | Post-translational modification of ribosomally synthesized peptides by a radical SAM epimerase in <i>Bacillus subtilis</i> . <i>Nature Chemistry</i> , 2017, 9, 698-707. | 13.6 | 88 |
| 11 | Insights into the catalysis of a lysine-tryptophan bond in bacterial peptides by a SPASM domain radical <i>S</i> -adenosylmethionine (SAM) peptide cyclase. <i>Journal of Biological Chemistry</i> , 2017, 292, 10835-10844. | 3.4 | 19 |
| 12 | Radical SAM Enzymes in the Biosynthesis of Ribosomally Synthesized and Post-translationally Modified Peptides (RiPPs). <i>Frontiers in Chemistry</i> , 2017, 5, 87. | 3.6 | 77 |
| 13 | The B ₁₂ -Radical SAM Enzyme PoyC Catalyzes Valine C ² -Methylation during Polytheonamide Biosynthesis. <i>Journal of the American Chemical Society</i> , 2016, 138, 15515-15518. | 13.7 | 81 |
| 14 | Carbon-sulfur bond-forming reaction catalysed by the radical SAM enzyme HydE. <i>Nature Chemistry</i> , 2016, 8, 491-500. | 13.6 | 72 |
| 15 | Thioether bond formation by SPASM domain radical SAM enzymes: C ¹ H-atom abstraction in subtilisin A biosynthesis. <i>Chemical Communications</i> , 2016, 52, 6249-6252. | 4.1 | 50 |
| 16 | Sulfatases and radical SAM enzymes: emerging themes in glycosaminoglycan metabolism and the human microbiota. <i>Biochemical Society Transactions</i> , 2016, 44, 109-115. | 3.4 | 31 |
| 17 | The thioestreonin A tryptophan methyltransferase TsrM catalyses a cob(II)alamin-dependent methyl transfer reaction. <i>Nature Communications</i> , 2015, 6, 8377. | 12.8 | 57 |
| 18 | Structural Perspectives on the Mechanism of the Radical SAM Enzyme, Spore Photoproduct Lyase. <i>FASEB Journal</i> , 2015, 29, 895.14. | 0.5 | 0 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Radically New Methylation Reactions in Antibiotic Biosynthesis: Insights into the Mechanism of B12-Dependent Radical SAM Enzymes. <i>FASEB Journal</i> , 2015, 29, 573.39. | 0.5 | 0 |
| 20 | Rescuing DNA repair activity by rewiring the H-atom transfer pathway in the radical SAM enzyme, spore photoproduct lyase. <i>Chemical Communications</i> , 2014, 50, 14201-14204. | 4.1 | 16 |
| 21 | Characterization of Glycosaminoglycan (GAG) Sulfatases from the Human Gut Symbiont <i>Bacteroides thetaiotaomicron</i> Reveals the First GAG-specific Bacterial Endosulfatase. <i>Journal of Biological Chemistry</i> , 2014, 289, 24289-24303. | 3.4 | 90 |
| 22 | A Radical Transfer Pathway in Spore Photoproduct Lyase. <i>Biochemistry</i> , 2013, 52, 3041-3050. | 2.5 | 32 |
| 23 | Correction to A Radical Transfer Pathway in Spore Photoproduct Lyase. <i>Biochemistry</i> , 2013, 52, 4869-4869. | 2.5 | 0 |
| 24 | Structural insights into recognition and repair of UV-DNA damage by Spore Photoproduct Lyase, a radical SAM enzyme. <i>Nucleic Acids Research</i> , 2012, 40, 9308-9318. | 14.5 | 73 |
| 25 | Biosynthesis of F ₄₂₀ , Precursor of the F ₄₂₀ Cofactor, Requires a Unique Two Radical-SAM Domain Enzyme and Tyrosine as Substrate. <i>Journal of the American Chemical Society</i> , 2012, 134, 18173-18176. | 13.7 | 66 |
| 26 | Thiostrepton tryptophan methyltransferase expands the chemistry of radical SAM enzymes. <i>Nature Chemical Biology</i> , 2012, 8, 957-959. | 8.0 | 105 |
| 27 | DNA photolyases and SP lyase: structure and mechanism of light-dependent and independent DNA lyases. <i>Current Opinion in Structural Biology</i> , 2012, 22, 711-720. | 5.7 | 29 |
| 28 | Chondroitin-4-O-sulfatase from <i>Bacteroides thetaiotaomicron</i> : exploration of the substrate specificity. <i>Carbohydrate Research</i> , 2012, 353, 96-99. | 2.3 | 8 |
| 29 | Sulfatases and a Radical S-Adenosyl-L-methionine (AdoMet) Enzyme Are Key for Mucosal Foraging and Fitness of the Prominent Human Gut Symbiont, <i>Bacteroides thetaiotaomicron</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 25973-25982. | 3.4 | 134 |
| 30 | Anaerobic sulfatase-maturing enzyme: A mechanistic link with glyceryl radical-activating enzymes?. <i>FEBS Journal</i> , 2010, 277, 1906-1920. | 4.7 | 55 |
| 31 | An efficient, multiply promiscuous hydrolase in the alkaline phosphatase superfamily. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 2740-2745. | 7.1 | 87 |
| 32 | Mechanistic Investigations of Anaerobic Sulfatase-Maturing Enzyme: Direct C-H-Atom Abstraction Catalyzed by a Radical AdoMet Enzyme. <i>Journal of the American Chemical Society</i> , 2009, 131, 8348-8349. | 13.7 | 39 |
| 33 | Anaerobic Sulfatase-maturing Enzymes, First Dual Substrate Radical S-Adenosylmethionine Enzymes. <i>Journal of Biological Chemistry</i> , 2008, 283, 17815-17826. | 3.4 | 64 |
| 34 | First evidences for a third sulfatase maturation system in prokaryotes from <i>E. coli</i> aslBandydeMdeletion mutants. <i>FEBS Letters</i> , 2007, 581, 1009-1014. | 2.8 | 43 |
| 35 | Anaerobic Sulfatase-Maturing Enzymes: Radical SAM Enzymes Able To Catalyze In Vitro Sulfatase Post-translational Modification. <i>Journal of the American Chemical Society</i> , 2007, 129, 3462-3463. | 13.7 | 61 |
| 36 | A New Type of Bacterial Sulfatase Reveals a Novel Maturation Pathway in Prokaryotes. <i>Journal of Biological Chemistry</i> , 2006, 281, 22464-22470. | 3.4 | 108 |