

Olivier Berteau

List of Publications by Year in descending order

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47
papers

3,258
citations

159358

30
h-index

223531

46
g-index

50
all docs

50
docs citations

50
times ranked

3710
citing authors

#	ARTICLE	IF	CITATIONS
1	Sulfated fucans, fresh perspectives: structures, functions, and biological properties of sulfated fucans and an overview of enzymes active toward this class of polysaccharide. <i>Glycobiology</i> , 2003, 13, 29R-40.	1.3	659
2	Functional Characterization of Novel <i>Faecalibacterium prausnitzii</i> Strains Isolated from Healthy Volunteers: A Step Forward in the Use of <i>F. prausnitzii</i> as a Next-Generation Probiotic. <i>Frontiers in Microbiology</i> , 2017, 8, 1226.	1.5	320
3	A metagenomic β -glucuronidase uncovers a core adaptive function of the human intestinal microbiome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4539-4546.	3.3	173
4	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.	1.6	134
5	A New Type of Bacterial Sulfatase Reveals a Novel Maturation Pathway in Prokaryotes. <i>Journal of Biological Chemistry</i> , 2006, 281, 22464-22470.	1.6	108
6	Thiostrepton tryptophan methyltransferase expands the chemistry of radical SAM enzymes. <i>Nature Chemical Biology</i> , 2012, 8, 957-959.	3.9	105
7	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.	1.6	90
8	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.	6.6	88
9	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.	3.3	87
10	The B ₁₂ -Radical SAM Enzyme PoyC Catalyzes Valine C ^β -Methylation during Polytheonamide Biosynthesis. <i>Journal of the American Chemical Society</i> , 2016, 138, 15515-15518.	6.6	81
11	Degradation of algal (<i>Ascophyllum nodosum</i>) fucoidan by an enzymatic activity contained in digestive glands of the marine mollusc <i>Pecten maximus</i> . <i>Carbohydrate Research</i> , 1999, 322, 291-297.	1.1	79
12	Radical SAM Enzymes in the Biosynthesis of Ribosomally Synthesized and Post-translationally Modified Peptides (RiPPs). <i>Frontiers in Chemistry</i> , 2017, 5, 87.	1.8	77
13	Characterization of a new α -L-fucosidase isolated from the marine mollusk <i>Pecten maximus</i> that catalyzes the hydrolysis of α -L-fucose from algal fucoidan (<i>Ascophyllum nodosum</i>). <i>Glycobiology</i> , 2002, 12, 273-282.	1.3	75
14	Carbon-sulfur bond-forming reaction catalysed by the radical SAM enzyme HydE. <i>Nature Chemistry</i> , 2016, 8, 491-500.	6.6	72
15	Biosynthesis of F ₀ , 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.	6.6	66
16	Anaerobic Sulfatase-maturing Enzymes, First Dual Substrate Radical S-Adenosylmethionine Enzymes. <i>Journal of Biological Chemistry</i> , 2008, 283, 17815-17826.	1.6	64
17	DNA Repair and Free Radicals, New Insights into the Mechanism of Spore Photoproduct Lyase Revealed by Single Amino Acid Substitution. <i>Journal of Biological Chemistry</i> , 2008, 283, 36361-36368.	1.6	62
18	Anaerobic Sulfatase-Maturing Enzymes: α Radical SAM Enzymes Able To Catalyze in Vitro Sulfatase Post-translational Modification. <i>Journal of the American Chemical Society</i> , 2007, 129, 3462-3463.	6.6	61

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19	Regioselective desulfation of sulfated l-fucopyranoside by a new sulfoesterase from the marine mollusk <i>Pecten maximus</i> . FEBS Journal, 2001, 268, 5617-5626.	0.2	58
20	The thioestrepton A tryptophan methyltransferase TsrM catalyses a cob(II)alamin-dependent methyl transfer reaction. Nature Communications, 2015, 6, 8377.	5.8	57
21	Anaerobic sulfataseâ€maturating enzyme â€ A mechanistic link with glycyl radicalâ€activating enzymes?. FEBS Journal, 2010, 277, 1906-1920.	2.2	55
22	Dinucleotide Spore Photoproduct, a Minimal Substrate of the DNA Repair Spore Photoproduct Lyase Enzyme from <i>Bacillus subtilis</i> . Journal of Biological Chemistry, 2006, 281, 26922-26931.	1.6	51
23	Thioether bond formation by SPASM domain radical SAM enzymes: C_H-atom abstraction in subtilosin A biosynthesis. Chemical Communications, 2016, 52, 6249-6252.	2.2	50
24	Mechanistic Investigations of PoyD, a Radical S-Adenosyl-methionine Enzyme Catalyzing Iterative and Directional Epimerizations in Polytheonamide A Biosynthesis. Journal of the American Chemical Society, 2018, 140, 2469-2477.	6.6	48
25	Ruminococcin C, an anti-clostridial sactipeptide produced by a prominent member of the human microbiota <i>Ruminococcus gnavus</i> . Journal of Biological Chemistry, 2019, 294, 14512-14525.	1.6	46
26	Atomic Mapping of the Interactions between the Antiviral Agent Cyanovirin-N and Oligomannosides by Saturation-Transfer Difference NMR. Biochemistry, 2004, 43, 13926-13931.	1.2	44
27	First evidences for a third sulfatase maturation system in prokaryotes from <i>E. coli</i> <i>aslB</i> deletion mutants. FEBS Letters, 2007, 581, 1009-1014.	1.3	43
28	Biosynthetic Versatility and Coordinated Action of 5'-Deoxyadenosyl Radicals in Deazaflavin Biosynthesis. Journal of the American Chemical Society, 2015, 137, 5406-5413.	6.6	40
29	The spore photoproduct lyase repairs the 5S- and not the 5R-configured spore photoproduct DNA lesion. Chemical Communications, 2006, , 445-447.	2.2	39
30	Mechanistic Investigations of Anaerobic Sulfatase-Maturating Enzyme: Direct C-H-Atom Abstraction Catalyzed by a Radical AdoMet Enzyme. Journal of the American Chemical Society, 2009, 131, 8348-8349.	6.6	39
31	Sulfatases and radical SAM enzymes: emerging themes in glycosaminoglycan metabolism and the human microbiota. Biochemical Society Transactions, 2016, 44, 109-115.	1.6	31
32	The Ep peptide YydF Intrinsically Triggers the Cell Envelope Stress Response of <i>Bacillus subtilis</i> and Causes Severe Membrane Perturbations. Frontiers in Microbiology, 2020, 11, 151.	1.5	29
33	Crystallographic snapshots of a B12-dependent radical SAM methyltransferase. Nature, 2022, 602, 336-342.	13.7	28
34	Î±-l-Fucosidases: Exoglycosidases with Unusual Transglycosylation Properties. Biochemistry, 2004, 43, 7881-7891.	1.2	27
35	Web resources for the carbohydrate chemist. Carbohydrate Research, 2004, 339, 929-936.	1.1	26
36	Gold-Catalyzed Spirocyclization Reactions of N-Propargyl Tryptamines and Tryptophans in Aqueous Media. Organic Letters, 2020, 22, 4344-4349.	2.4	26

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37	Insights into the catalysis of a lysine-tryptophan bond in bacterial peptides by a SPASM domain radical S-adenosylmethionine (SAM) peptide cyclase. <i>Journal of Biological Chemistry</i> , 2017, 292, 10835-10844.	1.6	19
38	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.	1.6	18
39	Radical SAM Enzymes and Ribosomally Synthesized and Posttranslationally Modified Peptides: A Growing Importance in the Microbiomes. <i>Frontiers in Chemistry</i> , 2021, 9, 678068.	1.8	16
40	Glycosidase-Substrate Interactions Analysis by STD-NMR Spectroscopy: Study of α -L-Fucosidase. <i>Journal of the American Chemical Society</i> , 2003, 125, 15296-15297.	6.6	15
41	DNA Repair by the Radical SAM Enzyme Spore Photoproduct Lyase: From Biochemistry to Structural Investigations. <i>Photochemistry and Photobiology</i> , 2017, 93, 67-77.	1.3	15
42	The Epipeptide Biosynthesis Locus <i>xepAB</i> Is Widely Distributed in Firmicutes and Triggers Intrinsic Cell Envelope Stress. <i>Microbial Physiology</i> , 2021, 31, 306-318.	1.1	13
43	Chondroitin-4-O-sulfatase from <i>Bacteroides thetaiotaomicron</i> : exploration of the substrate specificity. <i>Carbohydrate Research</i> , 2012, 353, 96-99.	1.1	8
44	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, .	1.7	7
45	A missed Fe-S cluster handoff causes a metabolic shakeup. <i>Journal of Biological Chemistry</i> , 2018, 293, 8312-8313.	1.6	5
46	Chondroitinase AC: A host-associated genetic feature of <i>Helicobacter bizzozeronii</i> . <i>Veterinary Microbiology</i> , 2016, 186, 21-27.	0.8	4
47	Radically New Methylation Reactions in Antibiotic Biosynthesis: Insights into the Mechanism of B ₁₂ -dependent Radical SAM enzymes. <i>FASEB Journal</i> , 2015, 29, 573.39.	0.2	0