

Alan Cartmell

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

2,036
citations

516710

16
h-index

526287

27
g-index

33
all docs

33
docs citations

33
times ranked

2410
citing authors

#	ARTICLE	IF	CITATIONS
1	Complex pectin metabolism by gut bacteria reveals novel catalytic functions. <i>Nature</i> , 2017, 544, 65-70.	27.8	447
2	Human gut Bacteroidetes can utilize yeast mannan through a selfish mechanism. <i>Nature</i> , 2015, 517, 165-169.	27.8	427
3	Dietary pectic glycans are degraded by coordinated enzyme pathways in human colonic Bacteroides. <i>Nature Microbiology</i> , 2018, 3, 210-219.	13.3	263
4	A surface endogalactanase in <i>Bacteroides thetaiotaomicron</i> confers keystone status for arabinogalactan degradation. <i>Nature Microbiology</i> , 2018, 3, 1314-1326.	13.3	103
5	How members of the human gut microbiota overcome the sulfation problem posed by glycosaminoglycans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7037-7042.	7.1	99
6	Structural insights into a unique cellulase fold and mechanism of cellulose hydrolysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5237-5242.	7.1	88
7	A single sulfatase is required to access colonic mucin by a gut bacterium. <i>Nature</i> , 2021, 598, 332-337.	27.8	87
8	The Structure and Function of an Arabinan-specific β -1,2-Arabinofuranosidase Identified from Screening the Activities of Bacterial GH43 Glycoside Hydrolases. <i>Journal of Biological Chemistry</i> , 2011, 286, 15483-15495.	3.4	85
9	The <i>Cellvibrio japonicus</i> Mannanase CjMan26C Displays a Unique exo-Mode of Action That Is Conferred by Subtle Changes to the Distal Region of the Active Site. <i>Journal of Biological Chemistry</i> , 2008, 283, 34403-34413.	3.4	74
10	Metabolism of multiple glycosaminoglycans by <i>Bacteroides thetaiotaomicron</i> is orchestrated by a versatile core genetic locus. <i>Nature Communications</i> , 2020, 11, 646.	12.8	58
11	Recognition of xyloglucan by the crystalline cellulose-binding site of a family 3a carbohydrate-binding module. <i>FEBS Letters</i> , 2015, 589, 2297-2303.	2.8	46
12	Insights into SusCD-mediated glycan import by a prominent gut symbiont. <i>Nature Communications</i> , 2021, 12, 44.	12.8	42
13	Evidence for a Boat Conformation at the Transition State of GH76 β -1,6-Mannanases: Key Enzymes in Bacterial and Fungal Mannoprotein Metabolism. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5378-5382.	13.8	40
14	Unusual active site location and catalytic apparatus in a glycoside hydrolase family. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4936-4941.	7.1	38
15	The human gut microbe <i>Bacteroides thetaiotaomicron</i> encodes the founding member of a novel glycosaminoglycan-degrading polysaccharide lyase family PL29. <i>Journal of Biological Chemistry</i> , 2018, 293, 17906-17916.	3.4	30
16	An evolutionarily distinct family of polysaccharide lyases removes rhamnose capping of complex arabinogalactan proteins. <i>Journal of Biological Chemistry</i> , 2017, 292, 13271-13283.	3.4	26
17	Sulfated glycan recognition by carbohydrate sulfatases of the human gut microbiota. <i>Nature Chemical Biology</i> , 2022, 18, 841-849.	8.0	16
18	Structural and functional analyses of glycoside hydrolase 138 enzymes targeting chain A galacturonic acid in the complex pectin rhamnogalacturonan II. <i>Journal of Biological Chemistry</i> , 2019, 294, 7711-7721.	3.4	12

#	ARTICLE	IF	CITATIONS
19	Mobility shift-based electrophoresis coupled with fluorescent detection enables real-time enzyme analysis of carbohydrate sulfatase activity. <i>Biochemical Journal</i> , 2021, 478, 735-748.	3.7	6
20	Probing the β -1,3:1,4 glucanase, CtLic26A, with a thio-oligosaccharide and enzyme variants. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 851.	2.8	5
21	Structural studies of the unusual metal-ion site of the GH124 endoglucanase from <i>Ruminiclostridium thermocellum</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2018, 74, 496-505.	0.8	3
22	Exploration of expanded carbohydrate chemical space to access biological activity using microwave-induced acid condensation of simple sugars. <i>RSC Advances</i> , 2022, 12, 11075-11083.	3.6	1
23	Correction: Mobility shift-based electrophoresis coupled with fluorescent detection enables real-time enzyme analysis of carbohydrate sulfatase activity. <i>Biochemical Journal</i> , 2021, 478, 2537-2538.	3.7	0