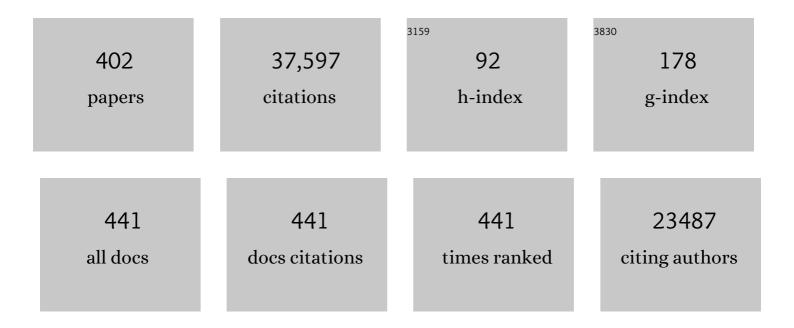
Gideon Davies

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Structures and mechanisms of glycosyl hydrolases. Structure, 1995, 3, 853-859.	3.3	1,803
2	Carbohydrate-binding modules: fine-tuning polysaccharide recognition. Biochemical Journal, 2004, 382, 769-781.	3.7	1,720
3	Glycosyltransferases: Structures, Functions, and Mechanisms. Annual Review of Biochemistry, 2008, 77, 521-555.	11.1	1,651
4	Structural and sequence-based classification of glycoside hydrolases. Current Opinion in Structural Biology, 1997, 7, 637-644.	5.7	1,494
5	An Evolving Hierarchical Family Classification for Glycosyltransferases. Journal of Molecular Biology, 2003, 328, 307-317.	4.2	1,079
6	Nomenclature for sugar-binding subsites in glycosyl hydrolases. Biochemical Journal, 1997, 321, 557-559.	3.7	934
7	Insights into the oxidative degradation of cellulose by a copper metalloenzyme that exploits biomass components. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15079-15084.	7.1	861
8	A classification of nucleotide-diphospho-sugar glycosyltransferases based on amino acid sequence similarities. Biochemical Journal, 1997, 326, 929-939.	3.7	722
9	Catalysis by hen egg-white lysozyme proceeds via a covalent intermediate. Nature, 2001, 412, 835-838.	27.8	588
10	A potent mechanism-inspired O-GlcNAcase inhibitor that blocks phosphorylation of tau in vivo. Nature Chemical Biology, 2008, 4, 483-490.	8.0	576
11	Conserved catalytic machinery and the prediction of a common fold for several families of glycosyl hydrolases Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 7090-7094.	7.1	568
12	Crystal structure of an N-terminal fragment of the DNA gyrase B protein. Nature, 1991, 351, 624-629.	27.8	551
13	Complex pectin metabolism by gut bacteria reveals novel catalytic functions. Nature, 2017, 544, 65-70.	27.8	447
14	Human gut Bacteroidetes can utilize yeast mannan through a selfish mechanism. Nature, 2015, 517, 165-169.	27.8	427
15	A discrete genetic locus confers xyloglucan metabolism in select human gut Bacteroidetes. Nature, 2014, 506, 498-502.	27.8	400
16	Structure of a flavonoid glucosyltransferase reveals the basis for plant natural product modification. EMBO Journal, 2006, 25, 1396-1405.	7.8	389
17	Mechanistic insights into glycosidase chemistry. Current Opinion in Chemical Biology, 2008, 12, 539-555.	6.1	363
18	Glycosidase mechanisms. Current Opinion in Chemical Biology, 2002, 6, 619-629.	6.1	349

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19	Structure of the Nucleotide-Diphospho-Sugar Transferase, SpsA from Bacillus subtilis, in Native and Nucleotide-Complexed Forms,. Biochemistry, 1999, 38, 6380-6385.	2.5	329
20	Discovery and characterization of a new family of lytic polysaccharide monooxygenases. Nature Chemical Biology, 2014, 10, 122-126.	8.0	329
21	Crystal structure of the type-2 Cu depleted laccase from Coprinus dnereus at 2.2 Ã resolution. Nature Structural Biology, 1998, 5, 310-316.	9.7	325
22	Privateer: software for the conformational validation of carbohydrate structures. Nature Structural and Molecular Biology, 2015, 22, 833-834.	8.2	301
23	Lytic xylan oxidases from wood-decay fungi unlock biomass degradation. Nature Chemical Biology, 2018, 14, 306-310.	8.0	269
24	Characterization and engineering of the bifunctional <i>N</i> - and <i>O</i> -glucosyltransferase involved in xenobiotic metabolism in plants. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20238-20243.	7.1	267
25	Recent structural insights into the expanding world of carbohydrate-active enzymes. Current Opinion in Structural Biology, 2005, 15, 637-645.	5.7	264
26	The molecular basis of polysaccharide cleavage by lytic polysaccharide monooxygenases. Nature Chemical Biology, 2016, 12, 298-303.	8.0	264
27	Snapshots along an Enzymatic Reaction Coordinate: Analysis of a Retaining β-Glycoside Hydrolaseâ€,‡. Biochemistry, 1998, 37, 11707-11713.	2.5	255
28	Structure and boosting activity of a starch-degrading lytic polysaccharide monooxygenase. Nature Communications, 2015, 6, 5961.	12.8	254
29	Glycoside Hydrolases and Glycosyltransferases. Families, Modules, and Implications for Genomics. Plant Physiology, 2000, 124, 1515-1519.	4.8	251
30	Structure of theFusarium oxysporumEndoglucanase I with a Nonhydrolyzable Substrate Analogue:Â Substrate Distortion Gives Rise to the Preferred Axial Orientation for the Leaving Groupâ€,‡. Biochemistry, 1996, 35, 15280-15287.	2.5	248
31	The crystal structure of the catalytic core domain of endoglucanase I from Trichoderma reesei at 3.6 à resolution, and a comparison with related enzymes 1 1Edited by K.Nagai. Journal of Molecular Biology, 1997, 272, 383-397.	4.2	238
32	Lytic Polysaccharide Monooxygenases in Biomass Conversion. Trends in Biotechnology, 2015, 33, 747-761.	9.3	233
33	Cellulosome assembly revealed by the crystal structure of the cohesin-dockerin complex. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 13809-13814.	7.1	230
34	Glycosidase inhibition: assessing mimicry of the transition state. Organic and Biomolecular Chemistry, 2010, 8, 305-320.	2.8	217
35	Structure of theAspergillus oryzaeα-Amylase Complexed with the Inhibitor Acarbose at 2.0 Ã Resolutionâ€,‡. Biochemistry, 1997, 36, 10837-10845.	2.5	216
36	Conformational Analyses of the Reaction Coordinate of Glycosidases. Accounts of Chemical Research, 2012, 45, 308-316.	15.6	212

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37	On the catalytic mechanisms of lytic polysaccharide monooxygenases. Current Opinion in Chemical Biology, 2016, 31, 195-207.	6.1	195
38	An ancient family of lytic polysaccharide monooxygenases with roles in arthropod development and biomass digestion. Nature Communications, 2018, 9, 756.	12.8	192
39	A census of carbohydrate-active enzymes in the genome of Arabidopsis thaliana. Plant Molecular Biology, 2001, 47, 55-72.	3.9	190
40	Spectroscopic and computational insight into the activation of O ₂ by the mononuclear Cu center in polysaccharide monooxygenases. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8797-8802.	7.1	190
41	Structure and mechanism of a bacterial β-glucosaminidase having O-GlcNAcase activity. Nature Structural and Molecular Biology, 2006, 13, 365-371.	8.2	182
42	Genome analyses highlight the different biological roles of cellulases. Nature Reviews Microbiology, 2012, 10, 227-234.	28.6	180
43	Recent insights into copper-containing lytic polysaccharide mono-oxygenases. Current Opinion in Structural Biology, 2013, 23, 660-668.	5.7	175
44	The Copper Active Site of CBM33 Polysaccharide Oxygenases. Journal of the American Chemical Society, 2013, 135, 6069-6077.	13.7	170
45	Insights into Trehalose Synthesis Provided by the Structure of the Retaining Glucosyltransferase OtsA. Chemistry and Biology, 2002, 9, 1337-1346.	6.0	164
46	Crystal structure of the catalytic domain of a bacterial cellulase belonging to family 5. Structure, 1995, 3, 939-949.	3.3	159
47	Cellvibrio japonicus α-L-arabinanase 43A has a novel five-blade β-propeller fold. Nature Structural Biology, 2002, 9, 665-668.	9.7	157
48	Mapping the conformational itinerary of β-glycosidases by X-ray crystallography. Biochemical Society Transactions, 2003, 31, 523-527.	3.4	155
49	Analysis of PUGNAc and NAG-thiazoline as Transition State Analogues for HumanO-GlcNAcase:Â Mechanistic and Structural Insights into Inhibitor Selectivity and Transition State Poise. Journal of the American Chemical Society, 2007, 129, 635-644.	13.7	155
50	Structures of Oligosaccharide-Bound Forms of the Endoglucanase V from Humicola insolens at 1.9 .ANG. Resolution. Biochemistry, 1995, 34, 16210-16220.	2.5	154
51	The X6 "Thermostabilizing―Domains of Xylanases Are Carbohydrate-Binding Modules:  Structure and Biochemistry of the Clostridium thermocellum X6b Domain,. Biochemistry, 2000, 39, 5013-5021.	2.5	154
52	Iminosugar Glycosidase Inhibitors:Â Structural and Thermodynamic Dissection of the Binding of Isofagomine and 1-Deoxynojirimycin to β-Glucosidases. Journal of the American Chemical Society, 2003, 125, 14313-14323.	13.7	154
53	Structure and function of endoglucanase V. Nature, 1993, 365, 362-364.	27.8	151
54	The Mechanisms by Which Family 10 Glycoside Hydrolases Bind Decorated Substrates. Journal of Biological Chemistry, 2004, 279, 9597-9605.	3.4	151

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55	Highly Efficient Synthesis of β(1 → 4)-Oligo- and -Polysaccharides Using a Mutant Cellulase. Journal of the American Chemical Society, 2000, 122, 5429-5437.	13.7	149
56	Enzymatic Ketonization of 2-Hydroxymuconate: Specificity and Mechanism Investigated by the Crystal Structures of Two Isomerasesâ€. Biochemistry, 1996, 35, 792-802.	2.5	148
57	Structural characterization of human heparanase reveals insights into substrate recognition. Nature Structural and Molecular Biology, 2015, 22, 1016-1022.	8.2	137
58	Differential Oligosaccharide Recognition by Evolutionarily-related β-1,4 and β-1,3 Glucan-binding Modules. Journal of Molecular Biology, 2002, 319, 1143-1156.	4.2	135
59	Crystal structure of levansucrase from the Gram-negative bacterium Gluconacetobacter diazotrophicus. Biochemical Journal, 2005, 390, 19-27.	3.7	135
60	Mechanistic evidence for a front-side, SNi-type reaction in a retaining glycosyltransferase. Nature Chemical Biology, 2011, 7, 631-638.	8.0	135
61	X-ray Structure of Novamyl, the Five-Domain "Maltogenic―α-Amylase fromBacillus stearothermophilus:Â Maltose and Acarbose Complexes at 1.7 à Resolutionâ€,‡. Biochemistry, 1999, 38, 8385-8392.	2.5	133
62	The crystal structure of two macrolide glycosyltransferases provides a blueprint for host cell antibiotic immunity. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5336-5341.	7.1	132
63	Bracing copper for the catalytic oxidation of C–H bonds. Nature Catalysis, 2018, 1, 571-577.	34.4	131
64	Substrate Distortion by a -Mannanase: Snapshots of the Michaelis and Covalent-Intermediate Complexes Suggest a B2,5 Conformation for the Transition State. Angewandte Chemie - International Edition, 2002, 41, 2824-2827.	13.8	127
65	Structural Analysis of a Chimeric Bacterial α-Amylase. High-Resolution Analysis of Native and Ligand Complexesâ€,‡. Biochemistry, 2000, 39, 9099-9107.	2.5	126
66	Evidence for a dual binding mode of dockerin modules to cohesins. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3089-3094.	7.1	124
67	Glycosidase Inhibition:Â An Assessment of the Binding of 18 Putative Transition-State Mimics. Journal of the American Chemical Society, 2007, 129, 2345-2354.	13.7	124
68	An Unusual Mechanism of Glycoside Hydrolysis Involving Redox and Elimination Steps by a Family 4 β-Glycosidase fromThermotoga maritima. Journal of the American Chemical Society, 2004, 126, 8354-8355.	13.7	119
69	Molecular Mechanism by which Prominent Human Gut Bacteroidetes Utilize Mixed-Linkage Beta-Glucans, Major Health-Promoting Cereal Polysaccharides. Cell Reports, 2017, 21, 417-430.	6.4	119
70	Three-dimensional structures of the Mn and Mg dTDP complexes of the family GT-2 glycosyltransferase SpsA: a comparison with related NDP-sugar glycosyltransferases 1 1Edited by R. Huber. Journal of Molecular Biology, 2001, 314, 655-661.	4.2	118
71	QM/MM Studies into the H ₂ O ₂ -Dependent Activity of Lytic Polysaccharide Monooxygenases: Evidence for the Formation of a Caged Hydroxyl Radical Intermediate. ACS Catalysis, 2018, 8, 1346-1351.	11.2	117
72	Structural Basis for Ligand Binding and Processivity in Cellobiohydrolase Cel6A from Humicola insolens. Structure, 2003, 11, 855-864.	3.3	116

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73	Mechanistic insights into a Ca2+-dependent family of α-mannosidases in a human gut symbiont. Nature Chemical Biology, 2010, 6, 125-132.	8.0	115
74	Dissecting conformational contributions to glycosidase catalysis and inhibition. Current Opinion in Structural Biology, 2014, 28, 1-13.	5.7	115
75	Catalysis and specificity in enzymatic glycoside hydrolysis: a 2,5B conformation for the glycosyl-enzyme intermediate revealed by the structure of the Bacillus agaradhaerens family 11 xylanase. Chemistry and Biology, 1999, 6, 483-492.	6.0	114
76	The Structure of the Feruloyl Esterase Module of Xylanase 10B from Clostridium thermocellum Provides Insights into Substrate Recognition. Structure, 2001, 9, 1183-1190.	3.3	112
77	Activity and specificity of human aldolases. Journal of Molecular Biology, 1991, 219, 573-576.	4.2	111
78	Evidence that family 35 carbohydrate binding modules display conserved specificity but divergent function. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3065-3070.	7.1	109
79	The X-ray crystal structure of phosphomannose isomerase from Candida albicans at 1.7 Ã resolution. Nature Structural Biology, 1996, 3, 470-479.	9.7	106
80	Elevation of Global O-GlcNAc Levels in 3T3-L1 Adipocytes by Selective Inhibition of O-GlcNAcase Does Not Induce Insulin Resistance. Journal of Biological Chemistry, 2008, 283, 34687-34695.	3.4	106
81	Secreted pectin monooxygenases drive plant infection by pathogenic oomycetes. Science, 2021, 373, 774-779.	12.6	106
82	Insights into the Synthesis of Lipopolysaccharide and Antibiotics through the Structures of Two Retaining Glycosyltransferases from Family GT4. Chemistry and Biology, 2006, 13, 1143-1152.	6.0	105
83	The Donor Subsite of Trehalose-6-phosphate Synthase. Journal of Biological Chemistry, 2004, 279, 1950-1955.	3.4	104
84	Structural and biochemical evidence for a boat-like transition state in β-mannosidases. Nature Chemical Biology, 2008, 4, 306-312.	8.0	104
85	Characterization and Three-dimensional Structures of Two Distinct Bacterial Xyloglucanases from Families GH5 and GH12. Journal of Biological Chemistry, 2007, 282, 19177-19189.	3.4	103
86	The Contribution of Non-catalytic Carbohydrate Binding Modules to the Activity of Lytic Polysaccharide Monooxygenases. Journal of Biological Chemistry, 2016, 291, 7439-7449.	3.4	102
87	Structure and Activity of Two Metal Ion-dependent Acetylxylan Esterases Involved in Plant Cell Wall Degradation Reveals a Close Similarity to Peptidoglycan Deacetylases. Journal of Biological Chemistry, 2006, 281, 10968-10975.	3.4	99
88	The structure of the exo-β-(1,3)-glucanase from Candida albicans in native and bound forms: relationship between a pocket and groove in family 5 glycosyl hydrolases 1 1Edited by I. A. Wilson. Journal of Molecular Biology, 1999, 294, 771-783.	4.2	98
89	Structure of an O-GlcNAc transferase homolog provides insight into intracellular glycosylation. Nature Structural and Molecular Biology, 2008, 15, 764-765.	8.2	98
90	Serratia marcescens chitobiase is a retaining glycosidase utilizing substrate acetamido group participation. Biochemical Journal, 1997, 328, 945-949.	3.7	97

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91	How nature can exploit nonspecific catalytic and carbohydrate binding modules to create enzymatic specificity. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20889-20894.	7.1	97
92	Molecular Basis for Trehalase Inhibition Revealed by the Structure of Trehalase in Complex with Potent Inhibitors. Angewandte Chemie - International Edition, 2007, 46, 4115-4119.	13.8	95
93	Understanding How Diverse β-Mannanases Recognize Heterogeneous Substrates. Biochemistry, 2009, 48, 7009-7018.	2.5	94
94	Structure of the Bacillus agaradherans Family 5 Endoglucanase at 1.6 Ã and Its Cellobiose Complex at 2.0 Ã Resolution,. Biochemistry, 1998, 37, 1926-1932.	2.5	93
95	Total Syntheses of Casuarine and Its 6â€ <i>O</i> â€Î±â€Glucoside: Complementary Inhibition towards Glycoside Hydrolases of the GH31 and GH37 Families. Chemistry - A European Journal, 2009, 15, 1627-1636.	3.3	92
96	Insights into the Molecular Determinants of Substrate Specificity in Glycoside Hydrolase Family 5 Revealed by the Crystal Structure and Kinetics of Cellvibrio mixtus Mannosidase 5A. Journal of Biological Chemistry, 2004, 279, 25517-25526.	3.4	91
97	Structure of the Endoglucanase I fromFusariumoxysporum:Â Native, Cellobiose, and 3,4-Epoxybutyl β-d-Cellobioside-Inhibited Forms, at 2.3 à Resolutionâ€,‡. Biochemistry, 1997, 36, 5902-5911.	2.5	90
98	Structure of a Family 15 Carbohydrate-binding Module in Complex with Xylopentaose. Journal of Biological Chemistry, 2001, 276, 49061-49065.	3.4	90
99	Structure of a pullulanase from <i>Bacillus acidopullulyticus</i> . Proteins: Structure, Function and Bioinformatics, 2009, 76, 516-519.	2.6	90
100	Promiscuity in ligand-binding: The three-dimensional structure of a Piromyces carbohydrate-binding module, CBM29-2, in complex with cello- and mannohexaose. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 14077-14082.	7.1	89
101	Convergent evolution sheds light on the anti-Â-elimination mechanism common to family 1 and 10 polysaccharide lyases. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12067-12072.	7.1	89
102	Novel Catalytic Mechanism of Glycoside Hydrolysis Based on the Structure of an NAD+/Mn2+-Dependent Phospho-α-Glucosidase from Bacillus subtilis. Structure, 2004, 12, 1619-1629.	3.3	88
103	Structural and functional insight into human O-GlcNAcase. Nature Chemical Biology, 2017, 13, 610-612.	8.0	88
104	Structural and Biochemical Analysis of Cellvibrio japonicus Xylanase 10C. Journal of Biological Chemistry, 2004, 279, 11777-11788.	3.4	86
105	Structural insight into the ligand specificity of a thermostable family 51 arabinofuranosidase, Araf51, from Clostridium thermocellum. Biochemical Journal, 2006, 395, 31-37.	3.7	85
106	Mechanistic Insight into Enzymatic Glycosyl Transfer with Retention of Configuration through Analysis of Glycomimetic Inhibitors. Angewandte Chemie - International Edition, 2010, 49, 1234-1237.	13.8	85
107	Direct Observation of the Protonation State of an Imino Sugar Glycosidase Inhibitor upon Binding. Journal of the American Chemical Society, 2003, 125, 7496-7497.	13.7	84
108	A census of carbohydrate-active enzymes in the genome of Arabidopsis thaliana. Plant Molecular Biology, 2001, 47, 55-72.	3.9	84

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109	Structural Changes of the Active Site Tunnel of Humicola insolens Cellobiohydrolase, Cel6A, upon Oligosaccharide Binding,. Biochemistry, 1999, 38, 8884-8891.	2.5	83
110	Protein–carbohydrate interactions: learning lessons from nature. Trends in Biotechnology, 2001, 19, 356-362.	9.3	82
111	Structural dissection and high-throughput screening of mannosylglycerate synthase. Nature Structural and Molecular Biology, 2005, 12, 608-614.	8.2	81
112	Divergence of Catalytic Mechanism within a Glycosidase Family Provides Insight into Evolution of Carbohydrate Metabolism by Human Gut Flora. Chemistry and Biology, 2008, 15, 1058-1067.	6.0	81
113	Functional and informatics analysis enables glycosyltransferase activity prediction. Nature Chemical Biology, 2018, 14, 1109-1117.	8.0	81
114	Clostridium thermocellum Xyn10B Carbohydrate-Binding Module 22-2:  The Role of Conserved Amino Acids in Ligand Binding,. Biochemistry, 2001, 40, 9167-9176.	2.5	80
115	Tailored catalysts for plant cell-wall degradation: Redesigning the exo/endo preference of Cellvibrio japonicus arabinanase 43A. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2697-2702.	7.1	80
116	A census of carbohydrate-active enzymes in the genome of Arabidopsis thaliana. , 2001, , 55-72.		80
117	Crystal Structures of Clostridium thermocellum Xyloglucanase, XGH74A, Reveal the Structural Basis for Xyloglucan Recognition and Degradation. Journal of Biological Chemistry, 2006, 281, 24922-24933.	3.4	79
118	Biosynthesis of the tunicamycin antibiotics proceeds via unique exo-glycal intermediates. Nature Chemistry, 2012, 4, 539-546.	13.6	79
119	Structure–function characterization reveals new catalytic diversity in the galactose oxidase and glyoxal oxidase family. Nature Communications, 2015, 6, 10197.	12.8	79
120	Crystal structure of the family 7 endoglucanase I (Cel7B) from Humicola insolens at 2.2ÂÃ resolution and identification of the catalytic nucleophile by trapping of the covalent glycosyl-enzyme intermediate. Biochemical Journal, 1998, 335, 409-416.	3.7	77
121	Learning from microbial strategies for polysaccharide degradation. Biochemical Society Transactions, 2016, 44, 94-108.	3.4	77
122	Ab Initio Structure Determination and Functional Characterization Of CBM36. Structure, 2004, 12, 1177-1187.	3.3	76
123	An overview of activity-based probes for glycosidases. Current Opinion in Chemical Biology, 2019, 53, 25-36.	6.1	76
124	Activity-based probes for functional interrogation of retaining Î ² -glucuronidases. Nature Chemical Biology, 2017, 13, 867-873.	8.0	76
125	Crystal structure of the catalytic core domain of the family 6 cellobiohydrolase II, Cel6A, from Humicola insolens, at 1.92ÂÃ resolution. Biochemical Journal, 1999, 337, 297-304.	3.7	74
126	The Structural Basis for Catalysis and Specificity of the Pseudomonas cellulosa α-Glucuronidase, GlcA67A. Structure, 2002, 10, 547-556.	3.3	74

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127	The Cellvibrio japonicus Mannanase CjMan26C Displays a Unique exo-Mode of Action That Is Conferred by Subtle Changes to the Distal Region of the Active Site. Journal of Biological Chemistry, 2008, 283, 34403-34413.	3.4	74
128	Structural and mechanistic insight into N-glycan processing by endo-α-mannosidase. Proceedings of the United States of America, 2012, 109, 781-786.	7.1	74
129	Carbohydrate anomalies in the PDB. Nature Chemical Biology, 2015, 11, 303-303.	8.0	74
130	The structure of a thermally stable 3-phosphoglycerate kinase and a comparison with its mesophilic equivalent. Proteins: Structure, Function and Bioinformatics, 1993, 15, 283-289.	2.6	73
131	Three-Dimensional Structures of UDP-Sugar Glycosyltransferases Illuminate the Biosynthesis of Plant Polysaccharides. Plant Physiology, 2001, 125, 527-531.	4.8	72
132	Family 6 Carbohydrate Binding Modules in β-Agarases Display Exquisite Selectivity for the Non-reducing Termini of Agarose Chains*. Journal of Biological Chemistry, 2006, 281, 17099-17107.	3.4	71
133	A Glycosynthase Catalyst for the Synthesis of Flavonoid Glycosides. Angewandte Chemie - International Edition, 2007, 46, 3885-3888.	13.8	71
134	The Clostridium cellulolyticum Dockerin Displays a Dual Binding Mode for Its Cohesin Partner. Journal of Biological Chemistry, 2008, 283, 18422-18430.	3.4	71
135	Substrate Specificity in Glycoside Hydrolase Family 10. Journal of Biological Chemistry, 2000, 275, 23020-23026.	3.4	70
136	Visualizing the Reaction Coordinate of an O-GlcNAc Hydrolase. Journal of the American Chemical Society, 2010, 132, 1807-1809.	13.7	70
137	Structural and enzymatic characterization of a glycoside hydrolase family 31 α-xylosidase from <i>Cellvibrio japonicus</i> involved in xyloglucan saccharification. Biochemical Journal, 2011, 436, 567-580.	3.7	69
138	Structure of the laccase fromCoprinus cinereusat 1.68â€Ã resolution: evidence for different`type 2 Cu-depleted' isoforms. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 333-336.	2.5	67
139	Anatomy of Clycosynthesis. Chemistry and Biology, 2003, 10, 619-628.	6.0	67
140	Multifunctional Xylooligosaccharide/Cephalosporin C Deacetylase Revealed by the Hexameric Structure of the Bacillus subtilis Enzyme at 1.9Ã Resolution. Journal of Molecular Biology, 2003, 330, 593-606.	4.2	67
141	Structure of a group A streptococcal phage-encoded virulence factor reveals a catalytically active triple-stranded A-helix. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 17652-17657.	7.1	67
142	Mannose Foraging by Bacteroides thetaiotaomicron. Journal of Biological Chemistry, 2007, 282, 11291-11299.	3.4	67
143	Inhibition of O-GlcNAcase Using a Potent and Cell-Permeable Inhibitor Does Not Induce Insulin Resistance in 3T3-L1 Adipocytes. Chemistry and Biology, 2010, 17, 937-948.	6.0	67
144	Expansion of the glycosynthase repertoire to produce defined manno-oligosaccharides. Chemical Communications, 2003, , 1327-1329.	4.1	66

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145	Formation of a Copper(II)–Tyrosyl Complex at the Active Site of Lytic Polysaccharide Monooxygenases Following Oxidation by H ₂ O ₂ . Journal of the American Chemical Society, 2019, 141, 18585-18599.	13.7	66
146	Structure and Ligand Binding of Carbohydrate-binding Module CsCBM6-3 Reveals Similarities with Fucose-specific Lectins and "Galactose-binding―Domains. Journal of Molecular Biology, 2003, 327, 659-669.	4.2	65
147	DNA-Nogalamycin Interactions: The Crystal Structure of d(TGATCA) Complexed with Nogalamycin. Biochemistry, 1995, 34, 415-425.	2.5	63
148	Analysis of the Reaction Coordinate of α- <scp>l</scp> -Fucosidases: A Combined Structural and Quantum Mechanical Approach. Journal of the American Chemical Society, 2010, 132, 1804-1806.	13.7	63
149	A complex gene locus enables xyloglucan utilization in the model saprophyte <scp><i>C</i></scp> <i>ellvibrio japonicus</i> . Molecular Microbiology, 2014, 94, 418-433.	2.5	63
150	Structural and Thermodynamic Dissection of Specific Mannan Recognition by a Carbohydrate Binding Module, TmCBM27. Structure, 2003, 11, 665-675.	3.3	62
151	Structural Studies of the β-Glycosidase fromSulfolobus solfataricusin Complex with Covalently and Noncovalently Bound Inhibitorsâ€. Biochemistry, 2004, 43, 6101-6109.	2.5	62
152	Mycobacterium tuberculosis Strains Possess Functional Cellulases. Journal of Biological Chemistry, 2005, 280, 20181-20184.	3.4	62
153	Molecular Basis for Inhibition of GH84 Glycoside Hydrolases by Substituted Azepanes: Conformational Flexibility Enables Probing of Substrate Distortion. Journal of the American Chemical Society, 2009, 131, 5390-5392.	13.7	62
154	A classification of nucleotide-diphospho-sugar glycosyltransferases based on amino acid sequence similarities. Biochemical Journal, 1998, 329, 719-719.	3.7	61
155	Structure and function of Humicola insolens family 6 cellulases: structure of the endoglucanase, Cel6B, at 1.6ÂÃ resolution. Biochemical Journal, 2000, 348, 201-207.	3.7	61
156	The crystal structure of human muscle aldolase at 3.0 Ã resolution. FEBS Letters, 1990, 262, 282-286.	2.8	60
157	The Streptomyces lividans Family 12 Endoglucanase:  Construction of the Catalytic Core, Expression, and X-ray Structure at 1.75 à Resolution,. Biochemistry, 1997, 36, 16032-16039.	2.5	60
158	Structural enzymology of carbohydrate-active enzymes: implications for the post-genomic era. Biochemical Society Transactions, 2002, 30, 291-297.	3.4	60
159	The Three-dimensional Structure of the N-Acetylglucosamine-6-phosphate Deacetylase, NagA, from Bacillus subtilis. Journal of Biological Chemistry, 2004, 279, 2809-2816.	3.4	60
160	How Family 26 Glycoside Hydrolases Orchestrate Catalysis on Different Polysaccharides. Journal of Biological Chemistry, 2005, 280, 32761-32767.	3.4	60
161	Inhibition of O-GlcNAcase by a gluco-configured nagstatin and a PUGNAc–imidazole hybrid inhibitor. Chemical Communications, 2006, , 4372-4374.	4.1	60
162	YihQ is a sulfoquinovosidase that cleaves sulfoquinovosyl diacylglyceride sulfolipids. Nature Chemical Biology, 2016, 12, 215-217.	8.0	60

#	Article	IF	CITATIONS
163	The Reaction Coordinate of a Bacterial GH47 αâ€Mannosidase: A Combined Quantum Mechanical and Structural Approach. Angewandte Chemie - International Edition, 2012, 51, 10997-11001.	13.8	57
164	The Crystal Structure of a 2-Fluorocellotriosyl Complex of theStreptomyceslividansEndoglucanase CelB2 at 1.2 à Resolutionâ€,‡. Biochemistry, 1999, 38, 4826-4833.	2.5	56
165	The Active Site of a Carbohydrate Esterase Displays Divergent Catalytic and Noncatalytic Binding Functions. PLoS Biology, 2009, 7, e1000071.	5.6	56
166	Structure of the ADP complex of the 3-phosphoglycerate kinase from Bacillus stearothermophilus at 1.65 Ã Acta Crystallographica Section D: Biological Crystallography, 1994, 50, 202-209.	2.5	55
167	Lateral Protonation of a Glycosidase Inhibitor. Structure of theBacillusagaradhaerensCel5A in Complex with a Cellobiose-Derived Imidazole at 0.97 Ã Resolution. Journal of the American Chemical Society, 1999, 121, 2621-2622.	13.7	55
168	NAD+ and Metal-ion Dependent Hydrolysis by Family 4 Glycosidases: Structural Insight into Specificity for Phospho-β-d-glucosides. Journal of Molecular Biology, 2005, 346, 423-435.	4.2	52
169	Substrate Specificity in Glycoside Hydrolase Family 10. Journal of Biological Chemistry, 2000, 275, 23027-23033.	3.4	51
170	Activity, stability and 3-D structure of the Cu(<scp>ii</scp>) form of a chitin-active lytic polysaccharide monooxygenase from Bacillus amyloliquefaciens. Dalton Transactions, 2016, 45, 16904-16912.	3.3	50
171	A Fluorescence Polarization Activity-Based Protein Profiling Assay in the Discovery of Potent, Selective Inhibitors for Human Nonlysosomal Glucosylceramidase. Journal of the American Chemical Society, 2017, 139, 14192-14197.	13.7	50
172	Structural, Kinetic, and Thermodynamic Analysis of Glucoimidazole-Derived Glycosidase Inhibitorsâ€,â€j. Biochemistry, 2006, 45, 11879-11884.	2.5	47
173	Carbohydrate-active enzymes: sequences, shapes, contortions and cells. Biochemical Society Transactions, 2016, 44, 79-87.	3.4	47
174	Insights into ligand-induced conformational change in Cel5A from Bacillus agaradhaerens revealed by a catalytically active crystal form. Journal of Molecular Biology, 2000, 297, 819-828.	4.2	46
175	The Use of Forced Protein Evolution to Investigate and Improve Stability of Family 10 Xylanases. Journal of Biological Chemistry, 2004, 279, 54369-54379.	3.4	46
176	Glycosidase inhibition by ring-modified castanospermine analogues: tackling enzyme selectivity by inhibitor tailoring. Organic and Biomolecular Chemistry, 2009, 7, 2738.	2.8	46
177	Molecular mechanisms regulating O-linked N-acetylglucosamine (O-GlcNAc)–processing enzymes. Current Opinion in Chemical Biology, 2019, 53, 131-144.	6.1	46
178	Discovering the Microbial Enzymes Driving Drug Toxicity with Activity-Based Protein Profiling. ACS Chemical Biology, 2020, 15, 217-225.	3.4	46
179	Discovery of a Fungal Copper Radical Oxidase with High Catalytic Efficiency toward 5-Hydroxymethylfurfural and Benzyl Alcohols for Bioprocessing. ACS Catalysis, 2020, 10, 3042-3058.	11.2	46
180	Structural basis for cyclophellitol inhibition of a β-glucosidase. Organic and Biomolecular Chemistry, 2007, 5, 444-446.	2.8	45

#	Article	IF	CITATIONS
181	Detection of Active Mammalian GH31 α-Glucosidases in Health and Disease Using In-Class, Broad-Spectrum Activity-Based Probes. ACS Central Science, 2016, 2, 351-358.	11.3	45
182	Structural dissection of a complex <i>Bacteroides ovatus</i> gene locus conferring xyloglucan metabolism in the human gut. Open Biology, 2016, 6, 160142.	3.6	45
183	In vitro and in vivo comparative and competitive activity-based protein profiling of GH29 α- <scp>l</scp> -fucosidases. Chemical Science, 2015, 6, 2782-2789.	7.4	44
184	Activation of O ₂ and H ₂ O ₂ by Lytic Polysaccharide Monooxygenases. ACS Catalysis, 2020, 10, 12760-12769.	11.2	44
185	A new variant of the Ntn hydrolase fold revealed by the crystal structure of l-aminopeptidase d-Ala-esterase/amidase from Ochrobactrum anthropi. Structure, 2000, 8, 153-162.	3.3	43
186	Insight into a strategy for attenuating AmpCâ€mediated βâ€lactam resistance: Structural basis for selective inhibition of the glycoside hydrolase NagZ. Protein Science, 2009, 18, 1541-1551.	7.6	43
187	Identifying the Catalytic Acid/Base in GH29 α- <scp>l</scp> -Fucosidase Subfamilies. Biochemistry, 2013, 52, 5857-5864.	2.5	43
188	1,6-Cyclophellitol Cyclosulfates: A New Class of Irreversible Glycosidase Inhibitor. ACS Central Science, 2017, 3, 784-793.	11.3	43
189	Mechanistic basis of substrate–O ₂ coupling within a chitin-active lytic polysaccharide monooxygenase: An integrated NMR/EPR study. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19178-19189.	7.1	42
190	Identification of the Catalytic Nucleophile of Endoglucanase I fromFusarium oxysporumby Mass Spectrometryâ€. Biochemistry, 1997, 36, 5893-5901.	2.5	41
191	Structural studies on cellulases. Biochemical Society Transactions, 1998, 26, 167-172.	3.4	41
192	Pectate lyase 10A from Pseudomonas cellulosa is a modular enzyme containing a family 2a carbohydrate-binding module. Biochemical Journal, 2001, 355, 155-165.	3.7	41
193	Substrate Distortion by a Lichenase Highlights the Different Conformational Itineraries Harnessed by Related Glycoside Hydrolases. Angewandte Chemie - International Edition, 2006, 45, 5136-5140.	13.8	41
194	Structure and Kinetic Investigation of Streptococcus pyogenes Family GH38 α-Mannosidase. PLoS ONE, 2010, 5, e9006.	2.5	41
195	A Convenient Approach to Stereoisomeric Iminocyclitols: Generation of Potent Brainâ€Permeable OGA Inhibitors. Angewandte Chemie - International Edition, 2015, 54, 15429-15433.	13.8	41
196	Interactions among residues CD3, E7, E10, and E11 in myoglobins: Attempts to simulate the ligand-binding properties of Aplysia myoglobin. Biochemistry, 1995, 34, 8715-8725.	2.5	40
197	Casuarine-6-O-α-d-glucoside and its analogues are tight binding inhibitors of insect and bacterial trehalases. Chemical Communications, 2010, 46, 2629.	4.1	40
198	Evidence for a Boat Conformation at the Transition State of GH76 αâ€1,6â€Mannanases—Key Enzymes in Bacterial and Fungal Mannoprotein Metabolism. Angewandte Chemie - International Edition, 2015, 54, 5378-5382.	13.8	40

#	Article	IF	CITATIONS
199	Combined Inhibitor Freeâ€Energy Landscape and Structural Analysis Reports on the Mannosidase Conformational Coordinate. Angewandte Chemie - International Edition, 2014, 53, 1087-1091.	13.8	39
200	Bacterial β-Glucosidase Reveals the Structural and Functional Basis of Genetic Defects in Human Glucocerebrosidase 2 (GBA2). ACS Chemical Biology, 2016, 11, 1891-1900.	3.4	39
201	A β-Mannanase with a Lysozyme-like Fold and a Novel Molecular Catalytic Mechanism. ACS Central Science, 2016, 2, 896-903.	11.3	39
202	Distortion of a cellobio-derived isofagomine highlights the potential conformational itinerary of inverting Î ² -glucosidasesElectronic supplementary information (ESI) available: details of data and structure quality for complex of cel6A with 1. See http://www.rsc.org/suppdata/cc/b3/b301592k/. Chemical Communications, 2003, , 946-947.	4.1	38
203	Common Inhibition of Both β-Glucosidases and β-Mannosidases by Isofagomine Lactam Reflects Different Conformational Itineraries for Pyranoside Hydrolysis. ChemBioChem, 2004, 5, 1596-1599.	2.6	38
204	Structural analyses of enzymes involved in the O-GlcNAc modification. Biochimica Et Biophysica Acta - General Subjects, 2010, 1800, 122-133.	2.4	38
205	Three-dimensional structures of two heavily N-glycosylated <i>Aspergillus</i> sp. family GH3 β- <scp>D</scp> -glucosidases. Acta Crystallographica Section D: Structural Biology, 2016, 72, 254-265.	2.3	38
206	Structural, Thermodynamic, and Kinetic Analyses of Tetrahydrooxazine-derived Inhibitors Bound to β-Glucosidases. Journal of Biological Chemistry, 2004, 279, 49236-49242.	3.4	37
207	Ligand-mediated Dimerization of a Carbohydrate-binding Module Reveals a Novel Mechanism for Protein–Carbohydrate Recognition. Journal of Molecular Biology, 2004, 337, 417-426.	4.2	37
208	Structure and Kinetics of a Monomeric Glucosamine 6-Phosphate Deaminase. Journal of Biological Chemistry, 2005, 280, 19649-19655.	3.4	37
209	A 1-acetamido derivative of 6-epi-valienamine: an inhibitor of a diverse group of β-N-acetylglucosaminidases. Organic and Biomolecular Chemistry, 2007, 5, 3013.	2.8	37
210	Building Custom Polysaccharides in Vitro with an Efficient, Broad-Specificity Xyloglucan Glycosynthase and a Fucosyltransferase. Journal of the American Chemical Society, 2011, 133, 10892-10900.	13.7	37
211	Oligosaccharide binding to family 11 xylanases: both covalent intermediate and mutant product complexes display2,5Bconformations at the active centre. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 1344-1347.	2.5	36
212	The X-ray Crystal Structure of an Arthrobacter protophormiae Endo-β-N-Acetylglucosaminidase Reveals a (β/α)8 Catalytic Domain, Two Ancillary Domains and Active Site Residues Key for Transglycosylation Activity. Journal of Molecular Biology, 2009, 389, 1-9.	4.2	36
213	Circular Permutation Provides an Evolutionary Link between Two Families of Calcium-dependent Carbohydrate Binding Modules. Journal of Biological Chemistry, 2010, 285, 31742-31754.	3.4	36
214	Structural Enzymology of Cellvibrio japonicus Agd31B Protein Reveals α-Transglucosylase Activity in Glycoside Hydrolase Family 31. Journal of Biological Chemistry, 2012, 287, 43288-43299.	3.4	36
215	Increase of enzyme activity through specific covalent modification with fragments. Chemical Science, 2017, 8, 7772-7779.	7.4	36
216	Functional analysis of a group A streptococcal glycoside hydrolase Spy1600 from family 84 reveals it is a β-N-acetylglucosaminidase and not a hyaluronidase. Biochemical Journal, 2006, 399, 241-247.	3.7	35

#	Article	IF	CITATIONS
217	Signature Active Site Architectures Illuminate the Molecular Basis for Ligand Specificity in Family 35 Carbohydrate Binding Module,. Biochemistry, 2010, 49, 6193-6205.	2.5	35
218	Discovery of Selective Smallâ€Molecule Activators of a Bacterial Glycoside Hydrolase. Angewandte Chemie - International Edition, 2014, 53, 13419-13423.	13.8	35
219	β-1,3-Glucan Binding by a Thermostable Carbohydrate-Binding Module fromThermotoga maritimaâ€. Biochemistry, 2001, 40, 14679-14685.	2.5	34
220	Sweet secrets of synthesis. , 2001, 8, 98-100.		34
221	Insights into the Structural Determinants of Cohesin—Dockerin Specificity Revealed by the Crystal Structure of the Type II Cohesin from Clostridium thermocellum SdbA. Journal of Molecular Biology, 2005, 349, 909-915.	4.2	34
222	Dissection of Conformationally Restricted Inhibitors Binding to a Î ² -Glucosidase. ChemBioChem, 2006, 7, 738-742.	2.6	34
223	Dynamic and Functional Profiling of Xylan-Degrading Enzymes in <i>Aspergillus</i> Secretomes Using Activity-Based Probes. ACS Central Science, 2019, 5, 1067-1078.	11.3	34
224	An Epoxide Intermediate in Glycosidase Catalysis. ACS Central Science, 2020, 6, 760-770.	11.3	34
225	Purification, crystallisation and preliminary X-ray analysis of the vanadium-dependent haloperoxidase fromCorallina officinalis. FEBS Letters, 1995, 359, 244-246.	2.8	33
226	Probing the Mechanism of Ligand Recognition in Family 29 Carbohydrate-binding Modules. Journal of Biological Chemistry, 2005, 280, 23718-23726.	3.4	33
227	Molecular Basis for βâ€Glucosidase Inhibition by Ringâ€Modified Calystegine Analogues. ChemBioChem, 2008, 9, 2612-2618.	2.6	33
228	Substrate and Metal Ion Promiscuity in Mannosylglycerate Synthase. Journal of Biological Chemistry, 2011, 286, 15155-15164.	3.4	33
229	Analysis of transition state mimicry by tight binding aminothiazoline inhibitors provides insight into catalysis by human O-GlcNAcase. Chemical Science, 2016, 7, 3742-3750.	7.4	33
230	A Family of Dual-Activity Glycosyltransferase-Phosphorylases Mediates Mannogen Turnover and Virulence in Leishmania Parasites. Cell Host and Microbe, 2019, 26, 385-399.e9.	11.0	33
231	Rational Design of Mechanism-Based Inhibitors and Activity-Based Probes for the Identification of Retaining α- <scp>I</scp> -Arabinofuranosidases. Journal of the American Chemical Society, 2020, 142, 4648-4662.	13.7	33
232	The α-Glucuronidase, GlcA67A, of Cellvibrio japonicus Utilizes the Carboxylate and Methyl Groups of Aldobiouronic Acid as Important Substrate Recognition Determinants. Journal of Biological Chemistry, 2003, 278, 20286-20292.	3.4	32
233	X-ray Crystal Structure of a Non-crystalline Cellulose-specific Carbohydrate-binding Module: CBM28. Journal of Molecular Biology, 2004, 339, 253-258.	4.2	32
234	Structure and Activity of Paenibacillus polymyxa Xyloglucanase from Glycoside Hydrolase Family 44. Journal of Biological Chemistry, 2011, 286, 33890-33900.	3.4	32

#	Article	IF	CITATIONS
235	The GH130 Family of Mannoside Phosphorylases Contains Glycoside Hydrolases That Target β-1,2-Mannosidic Linkages in Candida Mannan. Journal of Biological Chemistry, 2015, 290, 25023-25033.	3.4	32
236	Crystal structure of the catalytic core domain of the family 6 cellobiohydrolase II, Cel6A, from Humicola insolens, at 1.92ÂÃ resolution. Biochemical Journal, 1999, 337, 297.	3.7	31
237	The Enzymatic Synthesis of Glycosidic Bonds: "Glycosynthases" and Glycosyltransferases Trends in Glycoscience and Glycotechnology, 2001, 13, 105-120.	0.1	31
238	Carbohydrate structure: the rocky road to automation. Current Opinion in Structural Biology, 2017, 44, 39-47.	5.7	31
239	Structural and Biochemical Insights into the Function and Evolution of Sulfoquinovosidases. ACS Central Science, 2018, 4, 1266-1273.	11.3	31
240	Oligosaccharide specificity of a family 7 endoglucanase: insertion of potential sugar-binding subsites. Journal of Biotechnology, 1997, 57, 91-100.	3.8	30
241	Pectate lyase 10A from Pseudomonas cellulosa is a modular enzyme containing a family 2a carbohydrate-binding module. Biochemical Journal, 2001, 355, 155.	3.7	30
242	Direct experimental observation of the hydrogen-bonding network of a glycosidase along its reaction coordinate revealed by atomic resolution analyses of endoglucanase Cel5A. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 447-452.	2.5	29
243	The crystal structure of a family GH25 lysozyme from Bacillus anthracis implies a neighboring-group catalytic mechanism with retention of anomeric configuration. Carbohydrate Research, 2009, 344, 1753-1757.	2.3	29
244	Three-dimensional structure of a <i>Streptomyces sviceus</i> GNAT acetyltransferase with similarity to the C-terminal domain of the human GH84 <i>O</i> -GlcNAcase. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 186-195.	2.5	29
245	Functional and structural characterization of a potent <scp>GH</scp> 74 <i>endo</i> â€xyloglucanase from the soil saprophyte <i>Cellvibrio japonicus</i> unravels the first step of xyloglucan degradation. FEBS Journal, 2016, 283, 1701-1719.	4.7	29
246	Structure of aBacillus halmapalusfamily 13 α-amylase, BHA, in complex with an acarbose-derived nonasaccharide at 2.1â€Ã resolution. Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 190-193.	2.5	28
247	Chitinase Inhibition by Chitobiose and Chitotriose Thiazolines. Angewandte Chemie - International Edition, 2010, 49, 2599-2602.	13.8	28
248	αâ€ <scp>L</scp> â€Fucosidase Inhibition by Pyrrolidine–Ferrocene Hybrids: Rationalization of Ligandâ€Binding Properties by Structural Studies. Chemistry - A European Journal, 2013, 19, 9526-9533.	3.3	28
249	Functionalized Cyclophellitols Are Selective Glucocerebrosidase Inhibitors and Induce a Bona Fide Neuropathic Gaucher Model in Zebrafish. Journal of the American Chemical Society, 2019, 141, 4214-4218.	13.7	28
250	Sequence and expression of the gene encoding 3-phosphoglycerate kinase from Bacillus stearothermophilus. Gene, 1991, 109, 39-45.	2.2	27
251	Towards broad spectrum activity-based glycosidase probes: synthesis and evaluation of deoxygenated cyclophellitol aziridines. Chemical Communications, 2017, 53, 12528-12531.	4.1	27
252	Discovery, activity and characterisation of an AA10 lytic polysaccharide oxygenase from the shipworm symbiont Teredinibacter turnerae. Biotechnology for Biofuels, 2019, 12, 232.	6.2	27

#	Article	IF	CITATIONS
253	Atomic resolution analyses of the binding of xylobiose-derived deoxynojirimycin and isofagomine to xylanase Xyn10AElectronic supplementary information (ESI) available: kinetics and structural methods. See http://www.rsc.org/suppdata/cc/b4/b405152a/. Chemical Communications, 2004, , 1794.	4.1	26
254	Recent structural and mechanistic insights into post-translational enzymatic glycosylation. Current Opinion in Chemical Biology, 2012, 16, 479-487.	6.1	26
255	Exploring a Multivalent Approach to αâ€ <scp>L</scp> â€Fucosidase Inhibition. European Journal of Organic Chemistry, 2013, 2013, 7328-7336.	2.4	26
256	Structure determination and refinement of the Humicola insolens endoglucanase V at 1.5 Ã Resolution. Acta Crystallographica Section D: Biological Crystallography, 1996, 52, 7-17.	2.5	25
257	Structure of theHumicola insolenscellobiohydrolase Cel6A D416A mutant in complex with a non-hydrolysable substrate analogue, methyl cellobiosyl-4-thio-β-cellobioside, at 1.9â€Ã Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 2201-2204.	2.5	25
258	Crystal structure of a family GT4 glycosyltransferase from <i>Bacillus anthracis</i> ORF BA1558. Proteins: Structure, Function and Bioinformatics, 2008, 73, 784-787.	2.6	25
259	Structure and function of Humicola insolens family 6 cellulases: structure of the endoglucanase, Cel6B, at 1.6ÂÃ resolution. Biochemical Journal, 2000, 348, 201.	3.7	24
260	Atomic resolution structure of endoglucanase Cel5A in complex with methyl 4,411,4111,41V-tetrathio-α-cellopentoside highlights the alternative binding modes targeted by substrate mimics. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 1739-1742.	2.5	24
261	Carba-cyclophellitols Are Neutral Retaining-Glucosidase Inhibitors. Journal of the American Chemical Society, 2017, 139, 6534-6537.	13.7	24
262	In vitro and in vivo characterization of three Cellvibrio japonicus glycoside hydrolase family 5 members reveals potent xyloglucan backbone-cleaving functions. Biotechnology for Biofuels, 2018, 11, 45.	6.2	24
263	Mannosidase mechanism: at the intersection of conformation and catalysis. Current Opinion in Structural Biology, 2020, 62, 79-92.	5.7	24
264	Manno- <i>epi</i> -cyclophellitols Enable Activity-Based Protein Profiling of Human α-Mannosidases and Discovery of New Golgi Mannosidase II Inhibitors. Journal of the American Chemical Society, 2020, 142, 13021-13029.	13.7	24
265	Cryo-EM structure provides insights into the dimer arrangement of the O-linked β-N-acetylglucosamine transferase OCT. Nature Communications, 2021, 12, 6508.	12.8	24
266	Functional Characterization of Xyloglucan Glycosynthases from GH7, GH12, and GH16 Scaffolds. Biomacromolecules, 2009, 10, 1782-1788.	5.4	23
267	Metabolism of Vertebrate Amino Sugars with N-Glycolyl Groups. Journal of Biological Chemistry, 2012, 287, 28882-28897.	3.4	23
268	Structure and Activity of the <i>Streptomyces coelicolor</i> A3(2) β- <i>N</i> -Acetylhexosaminidase Provides Further Insight into GH20 Family Catalysis and Inhibition. Biochemistry, 2014, 53, 1789-1800.	2.5	23
269	Structure of <i>Papaver somniferum O</i> -Methyltransferase 1 Reveals Initiation of Noscapine Biosynthesis with Implications for Plant Natural Product Methylation. ACS Catalysis, 2019, 9, 3840-3848.	11.2	23
270	Validation tools: can they indicate the information content of macromolecular crystal structures?. Structure, 1998, 6, 685-690.	3.3	22

#	Article	IF	CITATIONS
271	Molecular determinants of substrate specificity in the feruloyl esterase module of xylanase 10B fromClostridium thermocellum. Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 194-197.	2.5	22
272	Structure of a carbohydrate esterase from Bacillus anthracis. Proteins: Structure, Function and Bioinformatics, 2006, 66, 250-252.	2.6	22
273	A Cell-Surface GH9 Endo-Glucanase Coordinates with Surface Glycan-Binding Proteins to Mediate Xyloglucan Uptake in the Gut Symbiont Bacteroides ovatus. Journal of Molecular Biology, 2019, 431, 981-995.	4.2	22
274	Sulfoglycolysis: catabolic pathways for metabolism of sulfoquinovose. Chemical Society Reviews, 2021, 50, 13628-13645.	38.1	22
275	Sorting the diverse: the sequence-based classifications of carbohydrate-active enzymes. Biochemical Journal, 2008, , 382.	3.7	21
276	Structural insight into the mechanism of streptozotocin inhibition of O-GlcNAcase. Carbohydrate Research, 2009, 344, 627-631.	2.3	21
277	Mixed-Linkage Cellooligosaccharides: A New Class of Glycoside Hydrolase Inhibitors. ChemBioChem, 2001, 2, 319-325.	2.6	20
278	Characterization ofEscherichia coliOtsA, a trehalose-6-phosphate synthase from glycosyltransferase family 20. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 349-351.	2.5	20
279	Structure of the Michaelis complex of β-mannosidase, Man2A, provides insight into the conformational itinerary of mannoside hydrolysis. Chemical Communications, 2009, , 2484.	4.1	20
280	Dynamic Structural Changes Accompany the Production of Dihydroxypropanesulfonate by Sulfolactaldehyde Reductase. ACS Catalysis, 2020, 10, 2826-2836.	11.2	20
281	Crystal structure of the catalytic core domain of the family 6 cellobiohydrolase II, Cel6A, from Humicola insolens, at 1.92 A resolution. Biochemical Journal, 1999, 337 (Pt 2), 297-304.	3.7	20
282	Three-dimensional structure of a variant `Termamyl-like' <i>Geobacillus stearothermophilus</i> α-amylase at 1.9â€Ã resolution. Acta Crystallographica Section F, Structural Biology Communications, 2015, 71, 66-70.	0.8	19
283	The three-dimensional structure of the cellobiohydrolase Cel7A from <i>Aspergillus fumigatus</i> at 1.5â€Â resolution. Acta Crystallographica Section F, Structural Biology Communications, 2015, 71, 114-120.	0.8	19
284	Exploiting the Hydrophobic Terrain in Fucosidases with Aryl‧ubstituted Pyrrolidine Iminosugars. ChemBioChem, 2015, 16, 277-283.	2.6	19
285	A Direct Fluorescent Activity Assay for Glycosyltransferases Enables Convenient Highâ€Throughput Screening: Application to <i>O</i> â€GlcNAc Transferase. Angewandte Chemie - International Edition, 2020, 59, 9601-9609.	13.8	19
286	Sorting the diverse: The sequencebased classifications of carbohydrateactive enzymes. Biochemist, 2008, 30, 26-32.	0.5	19
287	Structure and function of Humicola insolens family 6 cellulases: structure of the endoglucanase, Cel6B, at 1.6 A resolution. Biochemical Journal, 2000, 348 Pt 1, 201-7.	3.7	19
288	Structure of the catalytic core module of the <i>Chaetomium thermophilum</i> family GH6 cellobiohydrolase Cel6A. Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 875-882.	2.5	18

#	Article	IF	CITATIONS
289	Three dimensional structure of a bacterial α-l-fucosidase with a 5-membered iminocyclitol inhibitor. Bioorganic and Medicinal Chemistry, 2013, 21, 4751-4754.	3.0	18
290	Structural and Functional Characterization of a Novel Family GH115 4-O-Methyl-α-Glucuronidase with Specificity for Decorated Arabinogalactans. Journal of Molecular Biology, 2015, 427, 3935-3946.	4.2	18
291	Structural and mechanistic insights into a Bacteroides vulgatus retaining N-acetyl-β-galactosaminidase that uses neighbouring group participation. Chemical Communications, 2016, 52, 11096-11099.	4.1	18
292	A second-generation ferrocene–iminosugar hybrid with improved fucosidase binding properties. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1546-1549.	2.2	18
293	Discovery and characterization of a sulfoquinovose mutarotase using kinetic analysis at equilibrium by exchange spectroscopy. Biochemical Journal, 2018, 475, 1371-1383.	3.7	18
294	Substrate Engagement and Catalytic Mechanisms of N-Acetylglucosaminyltransferase V. ACS Catalysis, 2020, 10, 8590-8596.	11.2	18
295	Oxidative desulfurization pathway for complete catabolism of sulfoquinovose by bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	18
296	Structural and Thermodynamic Analyses of αâ€ <scp>L</scp> â€Fucosidase Inhibitors. ChemBioChem, 2010, 11, 1971-1974.	2.6	17
297	Structural and Kinetic Dissection of the <i>endo</i> â€Î±â€I,2â€Mannanase Activity of Bacterial GH99 Glycoside Hydrolases from <i>Bacteroides</i> â€spp Chemistry - A European Journal, 2015, 21, 1966-1977.	3.3	17
298	Computational Design of Experiment Unveils the Conformational Reaction Coordinate of GH125 α-Mannosidases. Journal of the American Chemical Society, 2017, 139, 1085-1088.	13.7	17
299	Contribution of Shape and Charge to the Inhibition of a Family GH99 <i>endo</i> -α-1,2-Mannanase. Journal of the American Chemical Society, 2017, 139, 1089-1097.	13.7	17
300	Gluco-1 <i>H</i> -imidazole: A New Class of Azole-Type β-Glucosidase Inhibitor. Journal of the American Chemical Society, 2018, 140, 5045-5048.	13.7	17
301	Crystal structure and substrate interactions of an unusual fungal non-CBM carrying GH26 endo-Î ² -mannanase from Yunnania penicillata. Scientific Reports, 2019, 9, 2266.	3.3	17
302	Activity-Based Protein Profiling of Retaining α-Amylases in Complex Biological Samples. Journal of the American Chemical Society, 2021, 143, 2423-2432.	13.7	17
303	Phosphoglycerate kinase from the extreme thermophile Thermus thermophilus Crystallization and preliminary X-ray data. FEBS Letters, 1987, 225, 123-126.	2.8	16
304	Cysteine Nucleophiles in Glycosidase Catalysis: Application of a Covalent βâ€ <scp>lâ€</scp> Arabinofuranosidase Inhibitor. Angewandte Chemie - International Edition, 2021, 60, 5754-5758.	13.8	16
305	Molecular Basis of Sulfosugar Selectivity in Sulfoglycolysis. ACS Central Science, 2021, 7, 476-487.	11.3	16
306	Crystallization and preliminary X-ray analysis of the laccase fromCoprinus cinereus. Acta Crystallographica Section D: Biological Crystallography, 1997, 53, 605-607.	2.5	15

#	Article	IF	CITATIONS
307	Inhibition of a bacterial O-GlcNAcase homologue by lactone and lactam derivatives: structural, kinetic and thermodynamic analyses. Amino Acids, 2011, 40, 829-839.	2.7	15
308	The Crystallization and Structural Analysis of Cellulases (and Other Glycoside Hydrolases). Methods in Enzymology, 2012, 510, 141-168.	1.0	15
309	Structural and Functional Characterization of Three Novel Fungal Amylases with Enhanced Stability and pH Tolerance. International Journal of Molecular Sciences, 2019, 20, 4902.	4.1	15
310	Using automated glycan assembly (AGA) for the practical synthesis of heparan sulfate oligosaccharide precursors. Organic and Biomolecular Chemistry, 2019, 17, 1817-1821.	2.8	15
311	Profiling Substrate Promiscuity of Wild-Type Sugar Kinases for Multi-fluorinated Monosaccharides. Cell Chemical Biology, 2020, 27, 1199-1206.e5.	5.2	15
312	The structure of the AliC GH13 α-amylase from <i>Alicyclobacillus</i> sp. reveals the accommodation of starch branching points in the α-amylase family. Acta Crystallographica Section D: Structural Biology, 2019, 75, 1-7.	2.3	15
313	Bicyclic Picomolar OGA Inhibitors Enable Chemoproteomic Mapping of Its Endogenous Post-translational Modifications. Journal of the American Chemical Society, 2022, 144, 832-844.	13.7	15
314	Production and spectroscopic characterization of lytic polysaccharide monooxygenases. Methods in Enzymology, 2018, 613, 63-90.	1.0	14
315	Structure of human endo-α-1,2-mannosidase (MANEA), an antiviral host-glycosylation target. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29595-29601.	7.1	14
316	A Sulfoglycolytic Entner-Doudoroff Pathway in Rhizobium leguminosarum bv. trifolii SRDI565. Applied and Environmental Microbiology, 2020, 86, .	3.1	14
317	Crystallization and preliminary X-ray analysis of a fungal endoglucanase I. Journal of Molecular Biology, 1992, 228, 970-972.	4.2	13
318	A xylobiose-derived isofagomine lactam glycosidase inhibitor binds as its amide tautomerElectronic supplementary information (ESI) available: details of data and structure quality for complex of 1 with Xyn10A. See http://www.rsc.org/suppdata/cc/b3/b301829f/. Chemical Communications, 2003, , 944-945.	4.1	13
319	Three-dimensional structure of a thermophilic family GH11 xylanase from <i>Thermobifida fusca</i> . Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 141-144.	0.7	13
320	Inverting family GH156 sialidases define an unusual catalytic motif for glycosidase action. Nature Communications, 2019, 10, 4816.	12.8	13
321	Glycosylated cyclophellitol-derived activity-based probes and inhibitors for cellulases. RSC Chemical Biology, 2020, 1, 148-155.	4.1	13
322	Structural enzymology of <i>Helicobacter pylori</i> methylthioadenosine nucleosidase in the futalosine pathway. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 177-185.	2.5	13
323	The case of the missing base. Nature Chemical Biology, 2012, 8, 952-953.	8.0	12
324	Exploring the divalent effect in fucosidase inhibition with stereoisomeric pyrrolidine dimers. Organic and Biomolecular Chemistry, 2016, 14, 4718-4727.	2.8	12

#	Article	IF	CITATIONS
325	Conformational Analysis of the Mannosidase Inhibitor Kifunensine: A Quantum Mechanical and Structural Approach. ChemBioChem, 2017, 18, 1496-1501.	2.6	12
326	Structural insight into industrially relevant glucoamylases: flexible positions of starch-binding domains. Acta Crystallographica Section D: Structural Biology, 2018, 74, 463-470.	2.3	12
327	Structural Dynamics and Catalytic Properties of a Multimodular Xanthanase. ACS Catalysis, 2018, 8, 6021-6034.	11.2	12
328	Trapped in the act of catalysis. , 1999, 6, 406-408.		11
329	The structure of a family GH25 lysozyme from <i>Aspergillus fumigatus</i> . Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 973-977.	0.7	11
330	From 1,4-Disaccharide to 1,3-Glycosyl Carbasugar: Synthesis of a Bespoke Inhibitor of Family GH99 Endo-α-mannosidase. Organic Letters, 2018, 20, 7488-7492.	4.6	11
331	α- <scp>d</scp> -Gal-cyclophellitol cyclosulfamidate is a Michaelis complex analog that stabilizes therapeutic lysosomal α-galactosidase A in Fabry disease. Chemical Science, 2019, 10, 9233-9243.	7.4	11
332	Structural Insights into Pixatimod (PG545) Inhibition of Heparanase, a Key Enzyme in Cancer and Viral Infections. Chemistry - A European Journal, 2022, 28, .	3.3	11
333	Crystallization and preliminary X-ray analysis of nonglycosylated tissue inhibitor of metalloproteinases-1, N30QN78Q TIMP-1. Proteins: Structure, Function and Bioinformatics, 1993, 17, 435-437.	2.6	10
334	Crystallization and preliminary X-ray analysis of the 6-phospho-α-glucosidase from Bacillus subtilis. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 1212-1214.	2.5	10
335	Synthesis and application of a highly branched, mechanism-based 2-deoxy-2-fluoro-oligosaccharide inhibitor of <i>endo</i> -xyloglucanases. Organic and Biomolecular Chemistry, 2018, 16, 8732-8741.	2.8	10
336	Structure and function of a glycoside hydrolase family 8 endoxylanase from <i>Teredinibacter turnerae</i> . Acta Crystallographica Section D: Structural Biology, 2018, 74, 946-955.	2.3	10
337	Insights from semi-oriented EPR spectroscopy studies into the interaction of lytic polysaccharide monooxygenases with cellulose. Dalton Transactions, 2020, 49, 3413-3422.	3.3	10
338	An Overview of the Structure, Mechanism and Specificity of Human Heparanase. Advances in Experimental Medicine and Biology, 2020, 1221, 139-167.	1.6	10
339	Crystallization and Preliminary X-ray Analysis of Candida albicans Phosphomannose Isomerase. Journal of Molecular Biology, 1994, 237, 349-350.	4.2	9
340	D-Glucosylated Derivatives of Isofagomine and Noeuromycin and Their Potential as Inhibitors of β-Glycoside Hydrolases. Australian Journal of Chemistry, 2007, 60, 549.	0.9	9
341	Cracking the code, slowly: the state of carbohydrate-active enzymes in 2013. Current Opinion in Structural Biology, 2013, 23, 649-651.	5.7	9
342	Spiroâ€epoxyglycosides as Activityâ€Based Probes for Glycoside Hydrolase Family 99 Endomannosidase/Endomannanase. Chemistry - A European Journal, 2018, 24, 9983-9992.	3.3	9

#	Article	IF	CITATIONS
343	Distortion of mannoimidazole supports a B2,5 boat transition state for the family GH125 α-1,6-mannosidase from Clostridium perfringens. Organic and Biomolecular Chemistry, 2019, 17, 7863-7869.	2.8	9
344	Structural insights into heparanase activity using a fluorogenic heparan sulfate disaccharide. Chemical Communications, 2020, 56, 13780-13783.	4.1	9
345	Structure of the GH76 α-mannanase homolog, BT2949, from the gut symbiont <i>Bacteroides thetaiotaomicron</i> . Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 408-415.	2.5	8
346	Chemoenzymatic synthesis of 6â€phospho yclophellitol as a novel probe of 6â€phosphoâ€Î²â€glucosidases. F Letters, 2016, 590, 461-468.	EBS 2.8	8
347	<i>Bacteroides thetaiotaomicron</i> generates diverse α-mannosidase activities through subtle evolution of a distal substrate-binding motif. Acta Crystallographica Section D: Structural Biology, 2018, 74, 394-404.	2.3	8
348	A Direct Fluorescent Activity Assay for Glycosyltransferases Enables Convenient Highâ€Throughput Screening: Application to O â€GlcNAc Transferase. Angewandte Chemie, 2020, 132, 9688-9696.	2.0	8
349	Structure of a GH51 α- <scp>L</scp> -arabinofuranosidase from <i>Meripilus giganteus</i> : conserved substrate recognition from bacteria to fungi. Acta Crystallographica Section D: Structural Biology, 2020, 76, 1124-1133.	2.3	8
350	The O-GlcNAc modification: three-dimensional structure, enzymology and the development of selective inhibitors to probe disease. Biochemical Society Transactions, 2010, 38, 1179-1188.	3.4	7
351	Structure and activity of the <i>Streptococcus pyogenes</i> family GH1 6-phospho-β-glucosidase SPy1599. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 16-23.	2.5	7
352	Conformational Behaviour of Azasugars Based on Mannuronic Acid. ChemBioChem, 2017, 18, 1297-1304.	2.6	7
353	Exploration of Strategies for Mechanismâ€Based Inhibitor Design for Family GH99 <i>endo</i> â€Î±â€1,2â€Mannanases. Chemistry - A European Journal, 2018, 24, 7464-7473.	3.3	7
354	Design, Synthesis and Structural Analysis of Glucocerebrosidase Imaging Agents. Chemistry - A European Journal, 2021, 27, 16377-16388.	3.3	7
355	Oxidative cleavage of polysaccharides by a termite-derived <i>superoxide dismutase</i> boosts the degradation of biomass by glycoside hydrolases. Green Chemistry, 2022, 24, 4845-4858.	9.0	7
356	Purification, crystallization and preliminary X-ray analysis of the 3-phosphoglycerate kinase from Bacillus stearothermophilus. Journal of Molecular Biology, 1992, 227, 1263-1264.	4.2	6
357	Crystallization and Preliminary X-ray Analysis of a Truncated Tissue Metalloproteinase Inhibitor Δ128-194 TIMP-2. Journal of Molecular Biology, 1993, 229, 1163-1164.	4.2	6
358	Crystallization of a DNA and N-acetylserine Binding Fragment (Residues 1 to 233) of Klebsiella aerogenes CysB Protein, a Member of the LysR Family. Journal of Molecular Biology, 1994, 235, 1159-1161.	4.2	6
359	Characterization of a novel pectate lyase, Pel10A, fromPseudomonas cellulosa. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 1141-1143.	2.5	6
360	Regulators as agents: Modelling personality and power as evidence is brokered to support decisions on environmental risk. Science of the Total Environment, 2014, 466-467, 74-83.	8.0	6

#	Article	IF	CITATIONS
361	An atypical interaction explains the high-affinity of a non-hydrolyzable S-linked 1,6-α-mannanase inhibitor. Chemical Communications, 2017, 53, 9238-9241.	4.1	6
362	Structure and function of Bs164 β-mannosidase from Bacteroides salyersiae the founding member of glycoside hydrolase family GH164. Journal of Biological Chemistry, 2020, 295, 4316-4326.	3.4	6
363	Selective Fluorogenic β-Glucocerebrosidase Substrates for Convenient Analysis of Enzyme Activity in Cell and Tissue Homogenates. ACS Chemical Biology, 2020, 15, 824-829.	3.4	6
364	Crystallization and preliminary X-ray analysis of the complex between a mouse Fab fragment and a single IgG-binding domain from streptococcal protein G. Journal of Molecular Biology, 1992, 227, 1253-1254.	4.2	5
365	Structure and FTIR spectra of 3 : 2 complexes of trimethylamine N-oxide and 4-dimethylamine-2,6-dimethylpyridine N-oxide with perchloric acid. Journal of Molecular Structure, 1996, 375, 197-206.	3.6	5
366	Probing the β-1,3:1,4 glucanase, CtLic26A, with a thio-oligosaccharide and enzyme variants. Organic and Biomolecular Chemistry, 2008, 6, 851.	2.8	5
367	Fleetamine (3-O-α-d-glucopyranosyl-swainsonine): the synthesis of a hypothetical inhibitor of endo-α-mannosidase. Tetrahedron: Asymmetry, 2012, 23, 992-997.	1.8	5
368	The C-Type Lysozyme from the upper Gastrointestinal Tract of Opisthocomus hoatzin, the Stinkbird. International Journal of Molecular Sciences, 2019, 20, 5531.	4.1	5
369	Structural studies of a surface-entropy reduction mutant of O-GlcNAcase. Acta Crystallographica Section D: Structural Biology, 2019, 75, 70-78.	2.3	5
370	Mapping the protonation states of the histidine brace in an AA10 lytic polysaccharide monooxygenase using CW-EPR spectroscopy and DFT calculations. Faraday Discussions, 2022, 234, 336-348.	3.2	5
371	Activity-based protein profiling reveals dynamic substrate-specific cellulase secretion by saprotrophic basidiomycetes. , 2022, 15, 6.		5
372	Crystallization and preliminary X-ray diffraction analysis of levansucrase (LsdA) fromGluconacetobacter diazotrophicusSRT4. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 181-183.	2.5	4
373	Structure of a Talaromyces pinophilus CH62 arabinofuranosidase in complex with AraDNJ at 1.25â€Ã resolution. Acta Crystallographica Section F, Structural Biology Communications, 2018, 74, 490-495.	0.8	4
374	Structure of the GH9 glucosidase/glucosaminidase fromVibrio cholerae. Acta Crystallographica Section F, Structural Biology Communications, 2018, 74, 512-523.	0.8	4
375	Mechanistic Insights into the Chaperoning of Human Lysosomal-Galactosidase Activity: Highly Functionalized Aminocyclopentanes and C-5a-Substituted Derivatives of 4-epi-Isofagomine. Molecules, 2020, 25, 4025.	3.8	4
376	A baculoviral system for the production of human β-glucocerebrosidase enables atomic resolution analysis. Acta Crystallographica Section D: Structural Biology, 2020, 76, 565-580.	2.3	4
377	Synthesis of broad-specificity activity-based probes for <i>exo</i> -β-mannosidases. Organic and Biomolecular Chemistry, 2022, 20, 877-886.	2.8	4
378	Cloning, crystallization and preliminary X-ray analysis of a nucleotide-diphospho-sugar transferase spsA fromBacillus subtilis. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 677-678.	2.5	3

#	Article	IF	CITATIONS
379	Cloning, purification and characterization of the 6-phospho-3-hexulose isomerase YckF fromBacillus subtilis. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 1138-1140.	2.5	3
380	The Chitopentaose Complex of a Mutant Hen Egg-White Lysozyme Displays No Distortion of the –1 Sugar Away from a 4C1 Chair Conformation. Australian Journal of Chemistry, 2009, 62, 528.	0.9	3
381	Structural studies of the unusual metal-ion site of the GH124 endoglucanase from <i>Ruminiclostridium thermocellum</i> . Acta Crystallographica Section F, Structural Biology Communications, 2018, 74, 496-505.	0.8	3
382	Synthetic and Crystallographic Insight into Exploiting sp 2 Hybridization in the Development of α―l â€Fucosidase Inhibitors. ChemBioChem, 2019, 20, 1365-1368.	2.6	3
383	Cysteine Nucleophiles in Glycosidase Catalysis: Application of a Covalent βâ€ <scp>lâ€</scp> Arabinofuranosidase Inhibitor. Angewandte Chemie, 2021, 133, 5818-5822.	2.0	3
384	Fungal GH25 muramidases: New family members with applications in animal nutrition and a crystal structure at 0.78Ã resolution. PLoS ONE, 2021, 16, e0248190.	2.5	3
385	Development of Nonâ€Hydrolysable Oligosaccharide Activityâ€Based Inactivators for Endoglycanases: A Case Study on αâ€1,6 Mannanases. Chemistry - A European Journal, 2021, 27, 9519-9523.	3.3	2
386	Copper Oxygenases. , 2021, , 500-523.		2
387	The structure of <i>Phocaeicola vulgatus</i> sialic acid acetylesterase. Acta Crystallographica Section D: Structural Biology, 2022, 78, 647-657.	2.3	2
388	Deletion of AA9 Lytic Polysaccharide Monooxygenases Impacts A. nidulans Secretome and Growth on Lignocellulose. Microbiology Spectrum, 2022, 10, .	3.0	2
389	Structural studies on fungal endoglucanases from Humicola insolens. Progress in Biotechnology, 1995, , 225-237.	0.2	1
390	Crystallization and preliminary X-ray crystallographic analysis of aTrichoderma reeseil ² -mannanase from glycoside hydrolase family 5. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 1058-1060.	2.5	1
391	Sequence Families and Modular Organization of Carbohydrate-Active Enzymes. , 2003, , .		1
392	Detecting and identifying glycoside hydrolases using cyclophellitol-derived activity-based probes. Methods in Enzymology, 2022, 664, 103-134.	1.0	1
393	The sulfoquinovosyl glycerol binding protein SmoF binds and accommodates plant sulfolipids. Current Research in Structural Biology, 2022, 4, 51-58.	2.2	1
394	Structure and FTIR spectra of 3:2 complexes of trimethylamine N-oxide and 4-dimethylamine-2,6-dimethylpyridine N-oxide with perchloric acid. Computational and Theoretical Chemistry, 1996, 375, 197-206.	1.5	0
395	Structural genomics of carbohydrate-active enzymes: implications for the synthesis of plant polysaccharides. Biochemical Society Transactions, 2002, 30, A24-A24.	3.4	0
396	A master of its sulfate. Nature Structural and Molecular Biology, 2004, 11, 686-687.	8.2	0

#	Article	IF	CITATIONS
397	Chemistry's prodigal child: enzyme mechanism. Current Opinion in Chemical Biology, 2008, 12, 529-531.	6.1	0
398	Innenrücktitelbild: The Reaction Coordinate of a Bacterial GH47 α-Mannosidase: A Combined Quantum Mechanical and Structural Approach (Angew. Chem. 44/2012). Angewandte Chemie, 2012, 124, 11333-11333.	2.0	0
399	Q&A: repeat-containing proteins. Nature Structural and Molecular Biology, 2015, 22, 943-945.	8.2	0
400	Evolution of a New Pathway of Reserve Carbohydrate Biosynthesis in <i>Leishmania</i> Parasites. SSRN Electronic Journal, 0, , .	0.4	0
401	Multitasking in the gut: the X-ray structure of the multidomain BbgIII from Bifidobacterium bifidum offers possible explanations for its alternative functions. Acta Crystallographica Section D: Structural Biology, 2021, 77, 1564-1578.	2.3	0
402	Structural enzymology of carbohydrate-active enzymes: implications for the post-genomic era. Biochemical Society Transactions, 2001, 30, 291.	3.4	0