Gideon Davies

List of Publications by Year in descending order

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401 papers 37,597 citations

92 h-index 178

441 all docs

441 docs citations

times ranked

441

23487 citing authors

g-index

#	Article	IF	CITATIONS
1	Structures and mechanisms of glycosyl hydrolases. Structure, 1995, 3, 853-859.	1.6	1,803
2	Carbohydrate-binding modules: fine-tuning polysaccharide recognition. Biochemical Journal, 2004, 382, 769-781.	1.7	1,720
3	Glycosyltransferases: Structures, Functions, and Mechanisms. Annual Review of Biochemistry, 2008, 77, 521-555.	5.0	1,651
4	Structural and sequence-based classification of glycoside hydrolases. Current Opinion in Structural Biology, 1997, 7, 637-644.	2.6	1,494
5	An Evolving Hierarchical Family Classification for Glycosyltransferases. Journal of Molecular Biology, 2003, 328, 307-317.	2.0	1,079
6	Nomenclature for sugar-binding subsites in glycosyl hydrolases. Biochemical Journal, 1997, 321, 557-559.	1.7	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.	3.3	861
8	A classification of nucleotide-diphospho-sugar glycosyltransferases based on amino acid sequence similarities. Biochemical Journal, 1997, 326, 929-939.	1.7	722
9	Catalysis by hen egg-white lysozyme proceeds via a covalent intermediate. Nature, 2001, 412, 835-838.	13.7	588
10	A potent mechanism-inspired O-GlcNAcase inhibitor that blocks phosphorylation of tau in vivo. Nature Chemical Biology, 2008, 4, 483-490.	3.9	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.	3.3	568
12	Crystal structure of an N-terminal fragment of the DNA gyrase B protein. Nature, 1991, 351, 624-629.	13.7	551
13	Complex pectin metabolism by gut bacteria reveals novel catalytic functions. Nature, 2017, 544, 65-70.	13.7	447
14	Human gut Bacteroidetes can utilize yeast mannan through a selfish mechanism. Nature, 2015, 517, 165-169.	13.7	427
15	A discrete genetic locus confers xyloglucan metabolism in select human gut Bacteroidetes. Nature, 2014, 506, 498-502.	13.7	400
16	Structure of a flavonoid glucosyltransferase reveals the basis for plant natural product modification. EMBO Journal, 2006, 25, 1396-1405.	3.5	389
17	Mechanistic insights into glycosidase chemistry. Current Opinion in Chemical Biology, 2008, 12, 539-555.	2.8	363
18	Glycosidase mechanisms. Current Opinion in Chemical Biology, 2002, 6, 619-629.	2.8	349

#	Article	IF	Citations
19	Structure of the Nucleotide-Diphospho-Sugar Transferase, SpsA from Bacillus subtilis, in Native and Nucleotide-Complexed Forms,. Biochemistry, 1999, 38, 6380-6385.	1.2	329
20	Discovery and characterization of a new family of lytic polysaccharide monooxygenases. Nature Chemical Biology, 2014, 10, 122-126.	3.9	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.	3.6	301
23	Lytic xylan oxidases from wood-decay fungi unlock biomass degradation. Nature Chemical Biology, 2018, 14, 306-310.	3.9	269
24	Characterization and engineering of the bifunctional $\langle i \rangle N \langle i \rangle$ - and $\langle i \rangle O \langle i \rangle$ -glucosyltransferase involved in xenobiotic metabolism in plants. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20238-20243.	3.3	267
25	Recent structural insights into the expanding world of carbohydrate-active enzymes. Current Opinion in Structural Biology, 2005, 15, 637-645.	2.6	264
26	The molecular basis of polysaccharide cleavage by lytic polysaccharide monooxygenases. Nature Chemical Biology, 2016, 12, 298-303.	3.9	264
27	Snapshots along an Enzymatic Reaction Coordinate: Analysis of a Retaining β-Glycoside Hydrolaseâ€,‡. Biochemistry, 1998, 37, 11707-11713.	1.2	255
28	Structure and boosting activity of a starch-degrading lytic polysaccharide monooxygenase. Nature Communications, 2015, 6, 5961.	5.8	254
29	Glycoside Hydrolases and Glycosyltransferases. Families, Modules, and Implications for Genomics. Plant Physiology, 2000, 124, 1515-1519.	2.3	251
30	Structure of theFusarium oxysporumEndoglucanase I with a Nonhydrolyzable Substrate Analogue: Substrate Distortion Gives Rise to the Preferred Axial Orientation for the Leaving Groupâ€,‡. Biochemistry, 1996, 35, 15280-15287.	1.2	248
31	The crystal structure of the catalytic core domain of endoglucanase I from Trichoderma reesei at 3.6 Ã resolution, and a comparison with related enzymes 1 1Edited by K.Nagai. Journal of Molecular Biology, 1997, 272, 383-397.	2.0	238
32	Lytic Polysaccharide Monooxygenases in Biomass Conversion. Trends in Biotechnology, 2015, 33, 747-761.	4.9	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.	3.3	230
34	Glycosidase inhibition: assessing mimicry of the transition state. Organic and Biomolecular Chemistry, 2010, 8, 305-320.	1.5	217
35	Structure of theAspergillus oryzaeα-Amylase Complexed with the Inhibitor Acarbose at 2.0 Ã Resolutionâ€,‡. Biochemistry, 1997, 36, 10837-10845.	1.2	216
36	Conformational Analyses of the Reaction Coordinate of Glycosidases. Accounts of Chemical Research, 2012, 45, 308-316.	7.6	212

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37	On the catalytic mechanisms of lytic polysaccharide monooxygenases. Current Opinion in Chemical Biology, 2016, 31, 195-207.	2.8	195
38	An ancient family of lytic polysaccharide monooxygenases with roles in arthropod development and biomass digestion. Nature Communications, 2018, 9, 756.	5.8	192
39	A census of carbohydrate-active enzymes in the genome of Arabidopsis thaliana. Plant Molecular Biology, 2001, 47, 55-72.	2.0	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.	3.3	190
41	Structure and mechanism of a bacterial \hat{l}^2 -glucosaminidase having O-GlcNAcase activity. Nature Structural and Molecular Biology, 2006, 13, 365-371.	3.6	182
42	Genome analyses highlight the different biological roles of cellulases. Nature Reviews Microbiology, 2012, 10, 227-234.	13.6	180
43	Recent insights into copper-containing lytic polysaccharide mono-oxygenases. Current Opinion in Structural Biology, 2013, 23, 660-668.	2.6	175
44	The Copper Active Site of CBM33 Polysaccharide Oxygenases. Journal of the American Chemical Society, 2013, 135, 6069-6077.	6.6	170
45	Insights into Trehalose Synthesis Provided by the Structure of the Retaining Glucosyltransferase OtsA. Chemistry and Biology, 2002, 9, 1337-1346.	6.2	164
46	Crystal structure of the catalytic domain of a bacterial cellulase belonging to family 5. Structure, 1995, 3, 939-949.	1.6	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 \hat{l}^2 -glycosidases by X-ray crystallography. Biochemical Society Transactions, 2003, 31, 523-527.	1.6	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.	6.6	155
50	Structures of Oligosaccharide-Bound Forms of the Endoglucanase V from Humicola insolens at 1.9 .ANG. Resolution. Biochemistry, 1995, 34, 16210-16220.	1.2	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.	1.2	154
52	Iminosugar Glycosidase Inhibitors:Â Structural and Thermodynamic Dissection of the Binding of Isofagomine and 1-Deoxynojirimycin to \hat{l}^2 -Glucosidases. Journal of the American Chemical Society, 2003, 125, 14313-14323.	6.6	154
53	Structure and function of endoglucanase V. Nature, 1993, 365, 362-364.	13.7	151
54	The Mechanisms by Which Family 10 Glycoside Hydrolases Bind Decorated Substrates. Journal of Biological Chemistry, 2004, 279, 9597-9605.	1.6	151

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55	Highly Efficient Synthesis of $\hat{l}^2(1 \; \hat{a}\dagger^\prime \; 4)$ -Oligo- and -Polysaccharides Using a Mutant Cellulase. Journal of the American Chemical Society, 2000, 122, 5429-5437.	6.6	149
56	Enzymatic Ketonization of 2-Hydroxymuconate: Specificity and Mechanism Investigated by the Crystal Structures of Two Isomerasesâ€. Biochemistry, 1996, 35, 792-802.	1.2	148
57	Structural characterization of human heparanase reveals insights into substrate recognition. Nature Structural and Molecular Biology, 2015, 22, 1016-1022.	3 . 6	137
58	Differential Oligosaccharide Recognition by Evolutionarily-related \hat{l}^2 -1,4 and \hat{l}^2 -1,3 Glucan-binding Modules. Journal of Molecular Biology, 2002, 319, 1143-1156.	2.0	135
59	Crystal structure of levansucrase from the Gram-negative bacterium Gluconacetobacter diazotrophicus. Biochemical Journal, 2005, 390, 19-27.	1.7	135
60	Mechanistic evidence for a front-side, SNi-type reaction in a retaining glycosyltransferase. Nature Chemical Biology, 2011, 7, 631-638.	3.9	135
61	X-ray Structure of Novamyl, the Five-Domain "Maltogenicâ€ब̂±-Amylase fromBacillus stearothermophilus:Â Maltose and Acarbose Complexes at 1.7 à Resolutionâ€,‡. Biochemistry, 1999, 38, 8385-8392.	1.2	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.	3.3	132
63	Bracing copper for the catalytic oxidation of C–H bonds. Nature Catalysis, 2018, 1, 571-577.	16.1	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.	7.2	127
65	Structural Analysis of a Chimeric Bacterial α-Amylase. High-Resolution Analysis of Native and Ligand Complexesâ€,‡. Biochemistry, 2000, 39, 9099-9107.	1,2	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.	3.3	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.	6.6	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.	6.6	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.	2.9	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.	2.0	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.	5.5	117
72	Structural Basis for Ligand Binding and Processivity in Cellobiohydrolase Cel6A from Humicola insolens. Structure, 2003, 11, 855-864.	1.6	116

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73	Mechanistic insights into a Ca2+-dependent family of \hat{l} ±-mannosidases in a human gut symbiont. Nature Chemical Biology, 2010, 6, 125-132.	3.9	115
74	Dissecting conformational contributions to glycosidase catalysis and inhibition. Current Opinion in Structural Biology, 2014, 28, 1-13.	2.6	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.	6.2	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.	1.6	112
77	Activity and specificity of human aldolases. Journal of Molecular Biology, 1991, 219, 573-576.	2.0	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.	3.3	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.	1.6	106
81	Secreted pectin monooxygenases drive plant infection by pathogenic oomycetes. Science, 2021, 373, 774-779.	6.0	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.	6.2	105
83	The Donor Subsite of Trehalose-6-phosphate Synthase. Journal of Biological Chemistry, 2004, 279, 1950-1955.	1.6	104
84	Structural and biochemical evidence for a boat-like transition state in \hat{l}^2 -mannosidases. Nature Chemical Biology, 2008, 4, 306-312.	3.9	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.	1.6	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.	1.6	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.	1.6	99
88	The structure of the exo- \hat{l}^2 -(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.	2.0	98
89	Structure of an O-GlcNAc transferase homolog provides insight into intracellular glycosylation. Nature Structural and Molecular Biology, 2008, 15, 764-765.	3.6	98
90	Serratia marcescens chitobiase is a retaining glycosidase utilizing substrate acetamido group participation. Biochemical Journal, 1997, 328, 945-949.	1.7	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.	3.3	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.	7.2	95
93	Understanding How Diverse β-Mannanases Recognize Heterogeneous Substrates. Biochemistry, 2009, 48, 7009-7018.	1.2	94
94	Structure of the Bacillus agaradherans Family 5 Endoglucanase at 1.6 \tilde{A} and Its Cellobiose Complex at 2.0 \tilde{A} Resolution,. Biochemistry, 1998, 37, 1926-1932.	1.2	93
95	Total Syntheses of Casuarine and Its 6â€ <i>O</i> i>â€Î±â€Glucoside: Complementary Inhibition towards Glycoside Hydrolases of the GH31 and GH37 Families. Chemistry - A European Journal, 2009, 15, 1627-1636.	1.7	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.	1.6	91
97	Structure of the Endoglucanase I fromFusariumoxysporum: Native, Cellobiose, and 3,4-Epoxybutyl β-d-Cellobioside-Inhibited Forms, at 2.3 à Resolutionâ€,‡. Biochemistry, 1997, 36, 5902-5911.	1.2	90
98	Structure of a Family 15 Carbohydrate-binding Module in Complex with Xylopentaose. Journal of Biological Chemistry, 2001, 276, 49061-49065.	1.6	90
99	Structure of a pullulanase from <i>Bacillus acidopullulyticus</i> . Proteins: Structure, Function and Bioinformatics, 2009, 76, 516-519.	1.5	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.	3.3	89
101	Convergent evolution sheds light on the anti- \hat{A} -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.	3.3	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.	1.6	88
103	Structural and functional insight into human O-GlcNAcase. Nature Chemical Biology, 2017, 13, 610-612.	3.9	88
104	Structural and Biochemical Analysis of Cellvibrio japonicus Xylanase 10C. Journal of Biological Chemistry, 2004, 279, 11777-11788.	1.6	86
105	Structural insight into the ligand specificity of a thermostable family 51 arabinofuranosidase, Araf51, from Clostridium thermocellum. Biochemical Journal, 2006, 395, 31-37.	1.7	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.	7.2	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.	6.6	84
108	A census of carbohydrate-active enzymes in the genome of Arabidopsis thaliana. Plant Molecular Biology, 2001, 47, 55-72.	2.0	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.	1.2	83
110	Protein–carbohydrate interactions: learning lessons from nature. Trends in Biotechnology, 2001, 19, 356-362.	4.9	82
111	Structural dissection and high-throughput screening of mannosylglycerate synthase. Nature Structural and Molecular Biology, 2005, 12, 608-614.	3.6	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.	6.2	81
113	Functional and informatics analysis enables glycosyltransferase activity prediction. Nature Chemical Biology, 2018, 14, 1109-1117.	3.9	81
114	Clostridium thermocellum Xyn10B Carbohydrate-Binding Module 22-2:  The Role of Conserved Amino Acids in Ligand Binding,. Biochemistry, 2001, 40, 9167-9176.	1.2	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.	3.3	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.	1.6	79
118	Biosynthesis of the tunicamycin antibiotics proceeds via unique exo-glycal intermediates. Nature Chemistry, 2012, 4, 539-546.	6.6	79
119	Structure–function characterization reveals new catalytic diversity in the galactose oxidase and glyoxal oxidase family. Nature Communications, 2015, 6, 10197.	5.8	79
120	Crystal structure of the family 7 endoglucanase I (Cel7B) from Humicola insolens at 2.2ÂÂ resolution and identification of the catalytic nucleophile by trapping of the covalent glycosyl-enzyme intermediate. Biochemical Journal, 1998, 335, 409-416.	1.7	77
121	Learning from microbial strategies for polysaccharide degradation. Biochemical Society Transactions, 2016, 44, 94-108.	1.6	77
122	Ab Initio Structure Determination and Functional Characterization Of CBM36. Structure, 2004, 12, 1177-1187.	1.6	76
123	An overview of activity-based probes for glycosidases. Current Opinion in Chemical Biology, 2019, 53, 25-36.	2.8	76
124	Activity-based probes for functional interrogation of retaining \hat{l}^2 -glucuronidases. Nature Chemical Biology, 2017, 13, 867-873.	3.9	76
125	Crystal structure of the catalytic core domain of the family 6 cellobiohydrolase II, Cel6A, from Humicola insolens, at 1.92ÂÂ resolution. Biochemical Journal, 1999, 337, 297-304.	1.7	74
126	The Structural Basis for Catalysis and Specificity of the Pseudomonas cellulosa \hat{l}_{\pm} -Glucuronidase, GlcA67A. Structure, 2002, 10, 547-556.	1.6	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.	1.6	74
128	Structural and mechanistic insight into N-glycan processing by endo-α-mannosidase. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 781-786.	3.3	74
129	Carbohydrate anomalies in the PDB. Nature Chemical Biology, 2015, 11, 303-303.	3.9	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.	1.5	73
131	Three-Dimensional Structures of UDP-Sugar Glycosyltransferases Illuminate the Biosynthesis of Plant Polysaccharides. Plant Physiology, 2001, 125, 527-531.	2.3	72
132	Family 6 Carbohydrate Binding Modules in \hat{l}^2 -Agarases Display Exquisite Selectivity for the Non-reducing Termini of Agarose Chains*. Journal of Biological Chemistry, 2006, 281, 17099-17107.	1.6	71
133	A Glycosynthase Catalyst for the Synthesis of Flavonoid Glycosides. Angewandte Chemie - International Edition, 2007, 46, 3885-3888.	7.2	71
134	The Clostridium cellulolyticum Dockerin Displays a Dual Binding Mode for Its Cohesin Partner. Journal of Biological Chemistry, 2008, 283, 18422-18430.	1.6	71
135	Substrate Specificity in Glycoside Hydrolase Family 10. Journal of Biological Chemistry, 2000, 275, 23020-23026.	1.6	70
136	Visualizing the Reaction Coordinate of an O-GlcNAc Hydrolase. Journal of the American Chemical Society, 2010, 132, 1807-1809.	6.6	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.	1.7	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 Glycosynthesis. Chemistry and Biology, 2003, 10, 619-628.	6.2	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.	2.0	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.	3.3	67
142	Mannose Foraging by Bacteroides thetaiotaomicron. Journal of Biological Chemistry, 2007, 282, 11291-11299.	1.6	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.	6.2	67
144	Expansion of the glycosynthase repertoire to produce defined manno-oligosaccharides. Chemical Communications, 2003, , 1327-1329.	2,2	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.	6.6	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.	2.0	65
147	DNA-Nogalamycin Interactions: The Crystal Structure of d(TGATCA) Complexed with Nogalamycin. Biochemistry, 1995, 34, 415-425.	1.2	63
148	Analysis of the Reaction Coordinate of \hat{l}_{\pm} - <scp> </scp> -Fucosidases: A Combined Structural and Quantum Mechanical Approach. Journal of the American Chemical Society, 2010, 132, 1804-1806.	6.6	63
149	A complex gene locus enables xyloglucan utilization in the model saprophyte <scp><i>C</i></scp> <i>ellvibrio japonicus</i>	1.2	63
150	Structural and Thermodynamic Dissection of Specific Mannan Recognition by a Carbohydrate Binding Module, TmCBM27. Structure, 2003, 11, 665-675.	1.6	62
151	Structural Studies of the β-Glycosidase fromSulfolobus solfataricusin Complex with Covalently and Noncovalently Bound Inhibitorsâ€. Biochemistry, 2004, 43, 6101-6109.	1.2	62
152	Mycobacterium tuberculosis Strains Possess Functional Cellulases. Journal of Biological Chemistry, 2005, 280, 20181-20184.	1.6	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.	6.6	62
154	A classification of nucleotide-diphospho-sugar glycosyltransferases based on amino acid sequence similarities. Biochemical Journal, 1998, 329, 719-719.	1.7	61
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