Gideon Davies

List of Publications by Year
in descending order

401 papers	37,597 citations	3668 92 h-index	4414 178 g-index
441 all docs	441 docs citations	441 times ranked	25948 citing authors

#	Article	IF	Citations
1	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.	1.6	5
2	Bicyclic Picomolar OGA Inhibitors Enable Chemoproteomic Mapping of Its Endogenous Post-translational Modifications. Journal of the American Chemical Society, 2022, 144, 832-844.	6.6	15
3	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, .	3.3	18
4	Structural Insights into Pixatimod (PG545) Inhibition of Heparanase, a Key Enzyme in Cancer and Viral Infections. Chemistry - A European Journal, 2022, 28, .	1.7	11
5	Synthesis of broad-specificity activity-based probes for <i>exo</i>-Î²-mannosidases. Organic and Biomolecular Chemistry, 2022, 20, 877-886.	1.5	4
6	Activity-based protein profiling reveals dynamic substrate-specific cellulase secretion by saprotrophic basidiomycetes. , 2022, 15, 6.		5
7	Detecting and identifying glycoside hydrolases using cyclophellitol-derived activity-based probes. Methods in Enzymology, 2022, 664, 103-134.	0.4	1
8	The sulfoquinovosyl glycerol binding protein SmoF binds and accommodates plant sulfolipids. Current Research in Structural Biology, 2022, 4, 51-58.	1.1	1
9	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.	4.6	7
10	The structure of<i>Phocaeicola vulgatus</i>sialic acid acetylesterase. Acta Crystallographica Section D: Structural Biology, 2022, 78, 647-657.	1.1	2
11	Deletion of AA9 Lytic Polysaccharide Monooxygenases Impacts A. nidulans Secretome and Growth on Lignocellulose. Microbiology Spectrum, 2022, 10, .	1.2	2
12	Activity-Based Protein Profiling of Retaining Î±-Amylases in Complex Biological Samples. Journal of the American Chemical Society, 2021, 143, 2423-2432.	6.6	17
13	Cysteine Nucleophiles in Glycosidase Catalysis: Application of a Covalent Î²â€<scp>lâ€</scp>Arabinofuranosidase Inhibitor. Angewandte Chemie - International Edition, 2021, 60, 5754-5758.	7.2	16
14	Cysteine Nucleophiles in Glycosidase Catalysis: Application of a Covalent Î²â€<scp>lâ€</scp>Arabinofuranosidase Inhibitor. Angewandte Chemie, 2021, 133, 5818-5822.	1.6	3
15	Molecular Basis of Sulfosugar Selectivity in Sulfoglycolysis. ACS Central Science, 2021, 7, 476-487.	5.3	16
16	Fungal GH25 muramidases: New family members with applications in animal nutrition and a crystal structure at 0.78Ã… resolution. PLoS ONE, 2021, 16, e0248190.	1.1	3
17	Development of Nonâ€Hydrolysable Oligosaccharide Activityâ€Based Inactivators for Endoglycanases: A Case Study on Î±â€1,6 Mannanases. Chemistry - A European Journal, 2021, 27, 9519-9523.	1.7	2
18	Secreted pectin monooxygenases drive plant infection by pathogenic oomycetes. Science, 2021, 373, 774-779.	6.0	106

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19	Design, Synthesis and Structural Analysis of Glucocerebrosidase Imaging Agents. Chemistry - A European Journal, 2021, 27, 16377-16388.	1.7	7
20	Copper Oxygenases. , 2021, , 500-523.		2
21	Cryo-EM structure provides insights into the dimer arrangement of the O-linked Î²-N-acetylglucosamine transferase OGT. Nature Communications, 2021, 12, 6508.	5.8	24
22	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.	1.1	0
23	Sulfoglycolysis: catabolic pathways for metabolism of sulfoquinovose. Chemical Society Reviews, 2021, 50, 13628-13645.	18.7	22
24	Mannosidase mechanism: at the intersection of conformation and catalysis. Current Opinion in Structural Biology, 2020, 62, 79-92.	2.6	24
25	Structure and function of Bs164 Î²-mannosidase from Bacteroides salyersiae the founding member of glycoside hydrolase family GH164. Journal of Biological Chemistry, 2020, 295, 4316-4326.	1.6	6
26	Discovering the Microbial Enzymes Driving Drug Toxicity with Activity-Based Protein Profiling. ACS Chemical Biology, 2020, 15, 217-225.	1.6	46
27	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.	1.7	4
28	Activation of O₂ and H₂O₂ by Lytic Polysaccharide Monooxygenases. ACS Catalysis, 2020, 10, 12760-12769.	5.5	44
29	Structural insights into heparanase activity using a fluorogenic heparan sulfate disaccharide. Chemical Communications, 2020, 56, 13780-13783.	2.2	9
30	Substrate Engagement and Catalytic Mechanisms of N-Acetylglucosaminyltransferase V. ACS Catalysis, 2020, 10, 8590-8596.	5.5	18
31	Mechanistic basis of substrateâ€“O₂coupling 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.	3.3	42
32	Glycosylated cyclophellitol-derived activity-based probes and inhibitors for cellulases. RSC Chemical Biology, 2020, 1, 148-155.	2.0	13
33	Structure of human endo-Î±-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.	3.3	14
34	Manno-<i>epi</i>-cyclophellitols Enable Activity-Based Protein Profiling of Human Î±-Mannosidases and Discovery of New Golgi Mannosidase II Inhibitors. Journal of the American Chemical Society, 2020, 142, 13021-13029.	6.6	24
35	Profiling Substrate Promiscuity of Wild-Type Sugar Kinases for Multi-fluorinated Monosaccharides. Cell Chemical Biology, 2020, 27, 1199-1206.e5.	2.5	15
36	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.	7.2	19

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37	Insights from semi-oriented EPR spectroscopy studies into the interaction of lytic polysaccharide monooxygenases with cellulose. Dalton Transactions, 2020, 49, 3413-3422.	1.6	10
38	Selective Fluorogenic Î²-Glucocerebrosidase Substrates for Convenient Analysis of Enzyme Activity in Cell and Tissue Homogenates. ACS Chemical Biology, 2020, 15, 824-829.	1.6	6
39	A Direct Fluorescent Activity Assay for Glycosyltransferases Enables Convenient Highâ€Throughput Screening: Application to O â€GlcNAc Transferase. Angewandte Chemie, 2020, 132, 9688-9696.	1.6	8
40	Rational Design of Mechanism-Based Inhibitors and Activity-Based Probes for the Identification of Retaining Î±-<scp>l</scp>-Arabinofuranosidases. Journal of the American Chemical Society, 2020, 142, 4648-4662.	6.6	33
41	Dynamic Structural Changes Accompany the Production of Dihydroxypropanesulfonate by Sulfolactaldehyde Reductase. ACS Catalysis, 2020, 10, 2826-2836.	5.5	20
42	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.	5.5	46
43	An Epoxide Intermediate in Glycosidase Catalysis. ACS Central Science, 2020, 6, 760-770.	5.3	34
44	An Overview of the Structure, Mechanism and Specificity of Human Heparanase. Advances in Experimental Medicine and Biology, 2020, 1221, 139-167.	0.8	10
45	A Sulfoglycolytic Entner-Doudoroff Pathway in Rhizobium leguminosarum bv. trifolii SRDI565. Applied and Environmental Microbiology, 2020, 86, .	1.4	14
46	A baculoviral system for the production of human Î²-glucocerebrosidase enables atomic resolution analysis. Acta Crystallographica Section D: Structural Biology, 2020, 76, 565-580.	1.1	4
47	Structure of a GH51 Î±-<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.	1.1	8
48	Distortion of mannoimidazole supports a B2,5 boat transition state for the family GH125 Î±-1,6-mannosidase from Clostridium perfringens. Organic and Biomolecular Chemistry, 2019, 17, 7863-7869.	1.5	9
49	An overview of activity-based probes for glycosidases. Current Opinion in Chemical Biology, 2019, 53, 25-36.	2.8	76
50	Î±-<scp>d</scp>-Gal-cyclophellitol cyclosulfamidate is a Michaelis complex analog that stabilizes therapeutic lysosomal Î±-galactosidase A in Fabry disease. Chemical Science, 2019, 10, 9233-9243.	3.7	11
51	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
52	The C-Type Lysozyme from the upper Gastrointestinal Tract of Opisthocomus hoatzin, the Stinkbird. International Journal of Molecular Sciences, 2019, 20, 5531.	1.8	5
53	Formation of a Copper(II)â€"Tyrosyl Complex at the Active Site of Lytic Polysaccharide Monooxygenases Following Oxidation by H₂O₂. Journal of the American Chemical Society, 2019, 141, 18585-18599.	6.6	66
54	Inverting family GH156 sialidases define an unusual catalytic motif for glycosidase action. Nature Communications, 2019, 10, 4816.	5.8	13

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55	Structural and Functional Characterization of Three Novel Fungal Amylases with Enhanced Stability and pH Tolerance. International Journal of Molecular Sciences, 2019, 20, 4902.	1.8	15
56	Molecular mechanisms regulating O-linked N-acetylglucosamine (O-GlcNAc)â€“processing enzymes. Current Opinion in Chemical Biology, 2019, 53, 131-144.	2.8	46
57	A Family of Dual-Activity Glycosyltransferase-Phosphorylases Mediates Mannogen Turnover and Virulence in Leishmania Parasites. Cell Host and Microbe, 2019, 26, 385-399.e9.	5.1	33
58	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.	2.0	22
59	Using automated glycan assembly (AGA) for the practical synthesis of heparan sulfate oligosaccharide precursors. Organic and Biomolecular Chemistry, 2019, 17, 1817-1821.	1.5	15
60	Dynamic and Functional Profiling of Xylan-Degrading Enzymes in <i>Aspergillus</i> Secretomes Using Activity-Based Probes. ACS Central Science, 2019, 5, 1067-1078.	5.3	34
61	Synthetic and Crystallographic Insight into Exploiting sp 2 Hybridization in the Development of Î±â€•l â€Fucosidase Inhibitors. ChemBioChem, 2019, 20, 1365-1368.	1.3	3
62	Structure of <i>Papaver somniferum</i> <i>O</i>-Methyltransferase 1 Reveals Initiation of Noscapine Biosynthesis with Implications for Plant Natural Product Methylation. ACS Catalysis, 2019, 9, 3840-3848.	5.5	23
63	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.	6.6	28
64	Crystal structure and substrate interactions of an unusual fungal non-CBM carrying GH26 endo-Î²-mannanase from Yunnania penicillata. Scientific Reports, 2019, 9, 2266.	1.6	17
65	The structure of the AliC GH13 Î±-amylase from <i>Alicyclobacillus</i> sp. reveals the accommodation of starch branching points in the Î±-amylase family. Acta Crystallographica Section D: Structural Biology, 2019, 75, 1-7.	1.1	15
66	Structural studies of a surface-entropy reduction mutant of O-GlcNAcase. Acta Crystallographica Section D: Structural Biology, 2019, 75, 70-78.	1.1	5
67	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.	1.7	7
68	An ancient family of lytic polysaccharide monooxygenases with roles in arthropod development and biomass digestion. Nature Communications, 2018, 9, 756.	5.8	192
69	Lytic xylan oxidases from wood-decay fungi unlock biomass degradation. Nature Chemical Biology, 2018, 14, 306-310.	3.9	269
70	QM/MM Studies into the H₂O₂-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
71	<i>Bacteroides thetaiotaomicron</i> generates diverse Î±-mannosidase activities through subtle evolution of a distal substrate-binding motif. Acta Crystallographica Section D: Structural Biology, 2018, 74, 394-404.	1.1	8
72	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

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73	Structural insight into industrially relevant glucoamylases: flexible positions of starch-binding domains. Acta Crystallographica Section D: Structural Biology, 2018, 74, 463-470.	1.1	12
74	Gluco-1<i>H</i>-imidazole: A New Class of Azole-Type Î²-Glucosidase Inhibitor. Journal of the American Chemical Society, 2018, 140, 5045-5048.	6.6	17
75	Discovery and characterization of a sulfoquinovose mutarotase using kinetic analysis at equilibrium by exchange spectroscopy. Biochemical Journal, 2018, 475, 1371-1383.	1.7	18
76	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.	1.5	10
77	Functional and informatics analysis enables glycosyltransferase activity prediction. Nature Chemical Biology, 2018, 14, 1109-1117.	3.9	81
78	Production and spectroscopic characterization of lytic polysaccharide monooxygenases. Methods in Enzymology, 2018, 613, 63-90.	0.4	14
79	From 1,4-Disaccharide to 1,3-Glycosyl Carbasugar: Synthesis of a Bespoke Inhibitor of Family GH99 Endo-Î±-mannosidase. Organic Letters, 2018, 20, 7488-7492.	2.4	11
80	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.	1.1	10
81	Structure of a Talaromyces pinophilus GH62 arabinofuranosidase in complex with AraDNJ at 1.25â€…Ã… resolution. Acta Crystallographica Section F, Structural Biology Communications, 2018, 74, 490-495.	0.4	4
82	Structural and Biochemical Insights into the Function and Evolution of Sulfoquinovosidases. ACS Central Science, 2018, 4, 1266-1273.	5.3	31
83	Spiroâ€epoxyglycosides as Activityâ€Based Probes for Glycoside Hydrolase Family 99 Endomannosidase/Endomannanase. Chemistry - A European Journal, 2018, 24, 9983-9992.	1.7	9
84	Structural Dynamics and Catalytic Properties of a Multimodular Xanthanase. ACS Catalysis, 2018, 8, 6021-6034.	5.5	12
85	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.	0.4	3
86	Structure of the GH9 glucosidase/glucosaminidase fromVibrio cholerae. Acta Crystallographica Section F, Structural Biology Communications, 2018, 74, 512-523.	0.4	4
87	Bracing copper for the catalytic oxidation of Câ€"H bonds. Nature Catalysis, 2018, 1, 571-577.	16.1	131
88	Conformational Analysis of the Mannosidase Inhibitor Kifunensine: A Quantum Mechanical and Structural Approach. ChemBioChem, 2017, 18, 1496-1501.	1.3	12
89	Carba-cyclophellitols Are Neutral Retaining-Glucosidase Inhibitors. Journal of the American Chemical Society, 2017, 139, 6534-6537.	6.6	24
90	Structural and functional insight into human O-GlcNAcase. Nature Chemical Biology, 2017, 13, 610-612.	3.9	88

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91	Conformational Behaviour of Azasugars Based on Mannuronic Acid. ChemBioChem, 2017, 18, 1297-1304.	1.3	7
92	Complex pectin metabolism by gut bacteria reveals novel catalytic functions. Nature, 2017, 544, 65-70.	13.7	447
93	Computational Design of Experiment Unveils the Conformational Reaction Coordinate of GH125 Î±-Mannosidases. Journal of the American Chemical Society, 2017, 139, 1085-1088.	6.6	17
94	Contribution of Shape and Charge to the Inhibition of a Family GH99 <i>endo</i>-Î±-1,2-Mannanase. Journal of the American Chemical Society, 2017, 139, 1089-1097.	6.6	17
95	Carbohydrate structure: the rocky road to automation. Current Opinion in Structural Biology, 2017, 44, 39-47.	2.6	31
96	Increase of enzyme activity through specific covalent modification with fragments. Chemical Science, 2017, 8, 7772-7779.	3.7	36
97	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
98	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.	6.6	50
99	An atypical interaction explains the high-affinity of a non-hydrolyzable S-linked 1,6-Î±-mannanase inhibitor. Chemical Communications, 2017, 53, 9238-9241.	2.2	6
100	Towards broad spectrum activity-based glycosidase probes: synthesis and evaluation of deoxygenated cyclophellitol aziridines. Chemical Communications, 2017, 53, 12528-12531.	2.2	27
101	1,6-Cyclophellitol Cyclosulfates: A New Class of Irreversible Glycosidase Inhibitor. ACS Central Science, 2017, 3, 784-793.	5.3	43
102	Activity-based probes for functional interrogation of retaining Î²-glucuronidases. Nature Chemical Biology, 2017, 13, 867-873.	3.9	76
103	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.	2.2	29
104	Exploring the divalent effect in fucosidase inhibition with stereoisomeric pyrrolidine dimers. Organic and Biomolecular Chemistry, 2016, 14, 4718-4727.	1.5	12
105	Analysis of transition state mimicry by tight binding aminothiazoline inhibitors provides insight into catalysis by human O-GlcNAcase. Chemical Science, 2016, 7, 3742-3750.	3.7	33
106	Detection of Active Mammalian GH31 Î±-Glucosidases in Health and Disease Using In-Class, Broad-Spectrum Activity-Based Probes. ACS Central Science, 2016, 2, 351-358.	5.3	45
107	On the catalytic mechanisms of lytic polysaccharide monooxygenases. Current Opinion in Chemical Biology, 2016, 31, 195-207.	2.8	195
108	Bacterial Î²-Glucosidase Reveals the Structural and Functional Basis of Genetic Defects in Human Glucocerebrosidase 2 (GBA2). ACS Chemical Biology, 2016, 11, 1891-1900.	1.6	39

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109	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.	1.6	50
110	Carbohydrate-active enzymes: sequences, shapes, contortions and cells. Biochemical Society Transactions, 2016, 44, 79-87.	1.6	47
111	Structural dissection of a complex <i>Bacteroides ovatus</i> gene locus conferring xyloglucan metabolism in the human gut. Open Biology, 2016, 6, 160142.	1.5	45
112	Structural and mechanistic insights into a Bacteroides vulgatus retaining N-acetyl-Î²-galactosaminidase that uses neighbouring group participation. Chemical Communications, 2016, 52, 11096-11099.	2.2	18
113	Learning from microbial strategies for polysaccharide degradation. Biochemical Society Transactions, 2016, 44, 94-108.	1.6	77
114	A Î²-Mannanase with a Lysozyme-like Fold and a Novel Molecular Catalytic Mechanism. ACS Central Science, 2016, 2, 896-903.	5.3	39
115	Chemoenzymatic synthesis of 6â€phosphoâ€cyclophellitol as a novel probe of 6â€phosphoâ€Î²â€glucosidases. FEBS Letters, 2016, 590, 461-468.	1.3	8
116	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
117	YihQ is a sulfoquinovosidase that cleaves sulfoquinovosyl diacylglyceride sulfolipids. Nature Chemical Biology, 2016, 12, 215-217.	3.9	60
118	Three-dimensional structures of two heavily N-glycosylated<i>Aspergillus</i>sp. family GH3 Î²-<scp>D</scp>-glucosidases. Acta Crystallographica Section D: Structural Biology, 2016, 72, 254-265.	1.1	38
119	A second-generation ferroceneâ€“iminosugar hybrid with improved fucosidase binding properties. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1546-1549.	1.0	18
120	The molecular basis of polysaccharide cleavage by lytic polysaccharide monooxygenases. Nature Chemical Biology, 2016, 12, 298-303.	3.9	264
121	A Convenient Approach to Stereoisomeric Iminocyclitols: Generation of Potent Brainâ€Permeable OGA Inhibitors. Angewandte Chemie - International Edition, 2015, 54, 15429-15433.	7.2	41
122	Evidence for a Boat Conformation at the Transition State of GH76 Î±â€1,6â€Mannanasesâ€"Key Enzymes in Bacterial and Fungal Mannoprotein Metabolism. Angewandte Chemie - International Edition, 2015, 54, 5378-5382.	7.2	40
123	Q&A: repeat-containing proteins. Nature Structural and Molecular Biology, 2015, 22, 943-945.	3.6	0
124	Structureâ€“function characterization reveals new catalytic diversity in the galactose oxidase and glyoxal oxidase family. Nature Communications, 2015, 6, 10197.	5.8	79
125	Human gut Bacteroidetes can utilize yeast mannan through a selfish mechanism. Nature, 2015, 517, 165-169.	13.7	427
126	Structural and Kinetic Dissection of the <i>endo</i>â€Î±â€1,2â€Mannanase Activity of Bacterial GH99 Glycoside Hydrolases from <i>Bacteroides</i>â€...spp.. Chemistry - A European Journal, 2015, 21, 1966-1977.	1.7	17

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127	Structure and boosting activity of a starch-degrading lytic polysaccharide monooxygenase. Nature Communications, 2015, 6, 5961.	5.8	254
128	Structural and Functional Characterization of a Novel Family GH115 4-O-Methyl-Î±-Glucuronidase with Specificity for Decorated Arabinogalactans. Journal of Molecular Biology, 2015, 427, 3935-3946.	2.0	18
129	Three-dimensional structure of a variant `Termamyl-like' <i>Geobacillus stearothermophilus</i>Î±-amylase at 1.9â€…Ã… resolution. Acta Crystallographica Section F, Structural Biology Communications, 2015, 71, 66-70.	0.4	19
130	The three-dimensional structure of the cellobiohydrolase Cel7A from <i>Aspergillus fumigatus</i>at 1.5â€…Ã… resolution. Acta Crystallographica Section F, Structural Biology Communications, 2015, 71, 114-120.	0.4	19
131	Carbohydrate anomalies in the PDB. Nature Chemical Biology, 2015, 11, 303-303.	3.9	74
132	Structure of the GH76 Î±-mannanase homolog, BT2949, from the gut symbiont <i>Bacteroides thetaiotaomicron</i>. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 408-415.	2.5	8
133	In vitro and in vivo comparative and competitive activity-based protein profiling of GH29 Î±-<scp>l</scp>-fucosidases. Chemical Science, 2015, 6, 2782-2789.	3.7	44
134	Privateer: software for the conformational validation of carbohydrate structures. Nature Structural and Molecular Biology, 2015, 22, 833-834.	3.6	301
135	Lytic Polysaccharide Monooxygenases in Biomass Conversion. Trends in Biotechnology, 2015, 33, 747-761.	4.9	233
136	The GH130 Family of Mannoside Phosphorylases Contains Glycoside Hydrolases That Target Î²-1,2-Mannosidic Linkages in Candida Mannan. Journal of Biological Chemistry, 2015, 290, 25023-25033.	1.6	32
137	Structural characterization of human heparanase reveals insights into substrate recognition. Nature Structural and Molecular Biology, 2015, 22, 1016-1022.	3.6	137
138	Exploiting the Hydrophobic Terrain in Fucosidases with Arylâ€Substituted Pyrrolidine Iminosugars. ChemBioChem, 2015, 16, 277-283.	1.3	19
139	Discovery of Selective Smallâ€Molecule Activators of a Bacterial Glycoside Hydrolase. Angewandte Chemie - International Edition, 2014, 53, 13419-13423.	7.2	35
140	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.	1.2	63
141	Discovery and characterization of a new family of lytic polysaccharide monooxygenases. Nature Chemical Biology, 2014, 10, 122-126.	3.9	329
142	A discrete genetic locus confers xyloglucan metabolism in select human gut Bacteroidetes. Nature, 2014, 506, 498-502.	13.7	400
143	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
144	Combined Inhibitor Freeâ€Energy Landscape and Structural Analysis Reports on the Mannosidase Conformational Coordinate. Angewandte Chemie - International Edition, 2014, 53, 1087-1091.	7.2	39

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145	Dissecting conformational contributions to glycosidase catalysis and inhibition. Current Opinion in Structural Biology, 2014, 28, 1-13.	2.6	115
146	Structure and Activity of the <i>Streptomyces coelicolor</i> A3(2) Î²-<i>N</i>-Acetylhexosaminidase Provides Further Insight into GH20 Family Catalysis and Inhibition. Biochemistry, 2014, 53, 1789-1800.	1.2	23
147	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.	3.9	6
148	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
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