Glyn R Hemsworth

List of Publications by Year
in descending order

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31 papers	2,944 citations	331259 21 h-index	433756 31 g-index
31 all docs	31 docs citations	31 times ranked	3124 citing authors

#	Article	IF	Citations
1	A discrete genetic locus confers xyloglucan metabolism in select human gut Bacteroidetes. Nature, 2014, 506, 498-502.	13.7	400
2	Discovery and characterization of a new family of lytic polysaccharide monooxygenases. Nature Chemical Biology, 2014, 10, 122-126.	3.9	329
3	The molecular basis of polysaccharide cleavage by lytic polysaccharide monooxygenases. Nature Chemical Biology, 2016, 12, 298-303.	3.9	264
4	Structure and boosting activity of a starch-degrading lytic polysaccharide monooxygenase. Nature Communications, 2015, 6, 5961.	5.8	254
5	Lytic Polysaccharide Monooxygenases in Biomass Conversion. Trends in Biotechnology, 2015, 33, 747-761.	4.9	233
6	An ancient family of lytic polysaccharide monooxygenases with roles in arthropod development and biomass digestion. Nature Communications, 2018, 9, 756.	5.8	192
7	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
8	Recent insights into copper-containing lytic polysaccharide mono-oxygenases. Current Opinion in Structural Biology, 2013, 23, 660-668.	2.6	175
9	The Copper Active Site of CBM33 Polysaccharide Oxygenases. Journal of the American Chemical Society, 2013, 135, 6069-6077.	6.6	170
10	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
11	Structural and functional insight into human O-GlcNAcase. Nature Chemical Biology, 2017, 13, 610-612.	3.9	88
12	Learning from microbial strategies for polysaccharide degradation. Biochemical Society Transactions, 2016, 44, 94-108.	1.6	77
13	Structure of the Human Obesity Receptor Leptin-Binding Domain Reveals the Mechanism of Leptin Antagonism by a Monoclonal Antibody. Structure, 2012, 20, 487-497.	1.6	65
14	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
15	Structural dissection of a complex Bacteroides ovatus gene locus conferring xyloglucan metabolism in the human gut. Open Biology, 2016, 6, 160142.	1.5	45
16	Heterogeneity in the Histidine-brace Copper Coordination Sphere in Auxiliary Activity Family 10 (AA10) Lytic Polysaccharide Monooxygenases. Journal of Biological Chemistry, 2016, 291, 12838-12850.	1.6	45
17	The Crystal Structure of the Leishmania major Deoxyuridine Triphosphate Nucleotidohydrolase in Complex with Nucleotide Analogues, dUMP, and Deoxyuridine. Journal of Biological Chemistry, 2011, 286, 16470-16481.	1.6	37
18	Structural Enzymology of Cellvibrio japonicus Agd31B Protein Reveals Î±-Transglucosylase Activity in Glycoside Hydrolase Family 31. Journal of Biological Chemistry, 2012, 287, 43288-43299.	1.6	36

#	Article	IF	Citations
19	Insights into an unusual Auxiliary Activity 9 family member lacking the histidine brace motif of lytic polysaccharide monooxygenases. Journal of Biological Chemistry, 2019, 294, 17117-17130.	1.6	30
20	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
21	On the catalytic mechanism of dimeric dUTPases. Biochemical Journal, 2013, 456, 81-88.	1.7	25
22	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
23	Production and spectroscopic characterization of lytic polysaccharide monooxygenases. Methods in Enzymology, 2018, 613, 63-90.	0.4	14
24	The structure of Escherichia coli ExoIXâ€"implications for DNA binding and catalysis in flap endonucleases. Nucleic Acids Research, 2013, 41, 8357-8367.	6.5	12
25	Structure and function of a glycoside hydrolase family 8 endoxylanase fromTeredinibacter turnerae. Acta Crystallographica Section D: Structural Biology, 2018, 74, 946-955.	1.1	10
26	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
27	C-type cytochrome-initiated reduction of bacterial lytic polysaccharide monooxygenases. Biochemical Journal, 2021, 478, 2927-2944.	1.7	9
28	Crystal structure of the putative cyclase IdmH from the indanomycin nonribosomal peptide synthase/polyketide synthase. IUCrJ, 2019, 6, 1120-1133.	1.0	8
29	Crystal structure of the small GTPase Arl6/BBS3 from Trypanosoma brucei. Protein Science, 2013, 22, 196-203.	3.1	4
30	A Standalone Î²-Ketoreductase Acts Concomitantly with Biosynthesis of the Antimycin Scaffold. ACS Chemical Biology, 2021, 16, 1152-1158.	1.6	3
31	Structure and function of lytic polysaccharide monooxygenases. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s225-s225.	0.0	1