

Glyn R Hemsworth

List of Publications by Citations

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30
papers

2,314
citations

19
h-index

31
g-index

31
ext. papers

2,668
ext. citations

9.2
avg, IF

4.79
L-index

#	Paper	IF	Citations
30	A discrete genetic locus confers xyloglucan metabolism in select human gut Bacteroidetes. <i>Nature</i> , 2014 , 506, 498-502	50.4	319
29	Discovery and characterization of a new family of lytic polysaccharide monooxygenases. <i>Nature Chemical Biology</i> , 2014 , 10, 122-6	11.7	268
28	Structure and boosting activity of a starch-degrading lytic polysaccharide monooxygenase. <i>Nature Communications</i> , 2015 , 6, 5961	17.4	205
27	The molecular basis of polysaccharide cleavage by lytic polysaccharide monooxygenases. <i>Nature Chemical Biology</i> , 2016 , 12, 298-303	11.7	205
26	Lytic Polysaccharide Monooxygenases in Biomass Conversion. <i>Trends in Biotechnology</i> , 2015 , 33, 747-761	15.1	196
25	Spectroscopic and computational insight into the activation of O ₂ by the mononuclear Cu center in polysaccharide monooxygenases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 8797-802	11.5	165
24	Recent insights into copper-containing lytic polysaccharide mono-oxygenases. <i>Current Opinion in Structural Biology</i> , 2013 , 23, 660-8	8.1	152
23	The copper active site of CBM33 polysaccharide oxygenases. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6069-77	16.4	143
22	An ancient family of lytic polysaccharide monooxygenases with roles in arthropod development and biomass digestion. <i>Nature Communications</i> , 2018 , 9, 756	17.4	135
21	Molecular Mechanism by which Prominent Human Gut Bacteroidetes Utilize Mixed-Linkage Beta-Glucans, Major Health-Promoting Cereal Polysaccharides. <i>Cell Reports</i> , 2017 , 21, 417-430	10.6	80
20	Structural and functional insight into human O-GlcNAcase. <i>Nature Chemical Biology</i> , 2017 , 13, 610-612	11.7	57
19	Learning from microbial strategies for polysaccharide degradation. <i>Biochemical Society Transactions</i> , 2016 , 44, 94-108	5.1	57
18	Structure of the human obesity receptor leptin-binding domain reveals the mechanism of leptin antagonism by a monoclonal antibody. <i>Structure</i> , 2012 , 20, 487-97	5.2	53
17	Activity, stability and 3-D structure of the Cu(II) form of a chitin-active lytic polysaccharide monooxygenase from <i>Bacillus amyloliquefaciens</i> . <i>Dalton Transactions</i> , 2016 , 45, 16904-16912	4.3	36
16	Structural dissection of a complex <i>Bacteroides ovatus</i> gene locus conferring xyloglucan metabolism in the human gut. <i>Open Biology</i> , 2016 , 6,	7	35
15	Heterogeneity in the Histidine-brace Copper Coordination Sphere in Auxiliary Activity Family 10 (AA10) Lytic Polysaccharide Monooxygenases. <i>Journal of Biological Chemistry</i> , 2016 , 291, 12838-12850	5.4	30
14	The crystal structure of the <i>Leishmania major</i> deoxyuridine triphosphate nucleotidohydrolase in complex with nucleotide analogues, dUMP, and deoxyuridine. <i>Journal of Biological Chemistry</i> , 2011 , 286, 16470-81	5.4	30

13	Structural enzymology of Cellvibrio japonicus Agd31B protein reveals β -transglucosylase activity in glycoside hydrolase family 31. <i>Journal of Biological Chemistry</i> , 2012 , 287, 43288-99	5.4	30
12	On the catalytic mechanism of dimeric dUTPases. <i>Biochemical Journal</i> , 2013 , 456, 81-8	3.8	22
11	Insights into an unusual Auxiliary Activity 9 family member lacking the histidine brace motif of lytic polysaccharide monoxygenases. <i>Journal of Biological Chemistry</i> , 2019 , 294, 17117-17130	5.4	19
10	A Cell-Surface GH9 Endo-Glucanase Coordinates with Surface Glycan-Binding Proteins to Mediate Xyloglucan Uptake in the Gut Symbiont Bacteroides ovatus. <i>Journal of Molecular Biology</i> , 2019 , 431, 981-995	6.5	16
9	Discovery, activity and characterisation of an AA10 lytic polysaccharide oxygenase from the shipworm symbiont. <i>Biotechnology for Biofuels</i> , 2019 , 12, 232	7.8	15
8	Production and spectroscopic characterization of lytic polysaccharide monoxygenases. <i>Methods in Enzymology</i> , 2018 , 613, 63-90	1.7	12
7	Insights from semi-oriented EPR spectroscopy studies into the interaction of lytic polysaccharide monoxygenases with cellulose. <i>Dalton Transactions</i> , 2020 , 49, 3413-3422	4.3	7
6	Crystal structure of the putative cyclase IdmH from the indanomycin nonribosomal peptide synthase/polyketide synthase. <i>IUCrJ</i> , 2019 , 6, 1120-1133	4.7	7
5	The structure of Escherichia coli ExoIX—implications for DNA binding and catalysis in flap endonucleases. <i>Nucleic Acids Research</i> , 2013 , 41, 8357-67	20.1	6
4	Structure and function of a glycoside hydrolase family 8 endoxylanase from Teredinibacter turnerae. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018 , 74, 946-955	5.5	6
3	Crystal structure of the small GTPase Arl6/BBS3 from Trypanosoma brucei. <i>Protein Science</i> , 2013 , 22, 196-203	6.3	4
2	C-type cytochrome-initiated reduction of bacterial lytic polysaccharide monoxygenases. <i>Biochemical Journal</i> , 2021 , 478, 2927-2944	3.8	2
1	A Standalone β -ketoreductase Acts Concomitantly with Biosynthesis of the Antimycin Scaffold. <i>ACS Chemical Biology</i> , 2021 , 16, 1152-1158	4.9	1