

Glyn R Hemsworth

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6331998/publications.pdf>

Version: 2024-02-01

31
papers

2,944
citations

331670

21
h-index

434195

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. <i>Nature</i> , 2014, 506, 498-502.	27.8	400
2	Discovery and characterization of a new family of lytic polysaccharide monooxygenases. <i>Nature Chemical Biology</i> , 2014, 10, 122-126.	8.0	329
3	The molecular basis of polysaccharide cleavage by lytic polysaccharide monooxygenases. <i>Nature Chemical Biology</i> , 2016, 12, 298-303.	8.0	264
4	Structure and boosting activity of a starch-degrading lytic polysaccharide monooxygenase. <i>Nature Communications</i> , 2015, 6, 5961.	12.8	254
5	Lytic Polysaccharide Monooxygenases in Biomass Conversion. <i>Trends in Biotechnology</i> , 2015, 33, 747-761.	9.3	233
6	An ancient family of lytic polysaccharide monooxygenases with roles in arthropod development and biomass digestion. <i>Nature Communications</i> , 2018, 9, 756.	12.8	192
7	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, 8797-8802.	7.1	190
8	Recent insights into copper-containing lytic polysaccharide mono-oxygenases. <i>Current Opinion in Structural Biology</i> , 2013, 23, 660-668.	5.7	175
9	The Copper Active Site of CBM33 Polysaccharide Oxygenases. <i>Journal of the American Chemical Society</i> , 2013, 135, 6069-6077.	13.7	170
10	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.	6.4	119
11	Structural and functional insight into human O-GlcNAcase. <i>Nature Chemical Biology</i> , 2017, 13, 610-612.	8.0	88
12	Learning from microbial strategies for polysaccharide degradation. <i>Biochemical Society Transactions</i> , 2016, 44, 94-108.	3.4	77
13	Structure of the Human Obesity Receptor Leptin-Binding Domain Reveals the Mechanism of Leptin Antagonism by a Monoclonal Antibody. <i>Structure</i> , 2012, 20, 487-497.	3.3	65
14	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.	3.3	50
15	Structural dissection of a complex <i>Bacteroides ovatus</i> gene locus conferring xyloglucan metabolism in the human gut. <i>Open Biology</i> , 2016, 6, 160142.	3.6	45
16	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.	3.4	45
17	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, 16470-16481.	3.4	37
18	Structural Enzymology of <i>Cellvibrio japonicus</i> Agd31B Protein Reveals β -Transglucosylase Activity in Glycoside Hydrolase Family 31. <i>Journal of Biological Chemistry</i> , 2012, 287, 43288-43299.	3.4	36

#	ARTICLE	IF	CITATIONS
19	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.	3.4	30
20	Discovery, activity and characterisation of an AA10 lytic polysaccharide oxygenase from the shipworm symbiont <i>Teredinibacter turnerae</i> . <i>Biotechnology for Biofuels</i> , 2019, 12, 232.	6.2	27
21	On the catalytic mechanism of dimeric dUTPases. <i>Biochemical Journal</i> , 2013, 456, 81-88.	3.7	25
22	A Cell-Surface GH9 Endo-Glucanase Coordinates with Surface Glycan-Binding Proteins to Mediate Xyloglucan Uptake in the Gut Symbiont <i>Bacteroides ovatus</i> . <i>Journal of Molecular Biology</i> , 2019, 431, 981-995.	4.2	22
23	Production and spectroscopic characterization of lytic polysaccharide monoxygenases. <i>Methods in Enzymology</i> , 2018, 613, 63-90.	1.0	14
24	The structure of <i>Escherichia coli</i> ExoIX implications for DNA binding and catalysis in flap endonucleases. <i>Nucleic Acids Research</i> , 2013, 41, 8357-8367.	14.5	12
25	Structure and function of a glycoside hydrolase family 8 endoxylanase from <i>Teredinibacter turnerae</i> . <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 946-955.	2.3	10
26	Insights from semi-oriented EPR spectroscopy studies into the interaction of lytic polysaccharide monoxygenases with cellulose. <i>Dalton Transactions</i> , 2020, 49, 3413-3422.	3.3	10
27	C-type cytochrome-initiated reduction of bacterial lytic polysaccharide monoxygenases. <i>Biochemical Journal</i> , 2021, 478, 2927-2944.	3.7	9
28	Crystal structure of the putative cyclase IdmH from the indanomycin nonribosomal peptide synthase/polyketide synthase. <i>IUCr</i> , 2019, 6, 1120-1133.	2.2	8
29	Crystal structure of the small GTPase Arl6/BBS3 from <i>Trypanosoma brucei</i> . <i>Protein Science</i> , 2013, 22, 196-203.	7.6	4
30	A Standalone β^2 -Ketoreductase Acts Concomitantly with Biosynthesis of the Antimycin Scaffold. <i>ACS Chemical Biology</i> , 2021, 16, 1152-1158.	3.4	3
31	Structure and function of lytic polysaccharide monoxygenases. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2015, 71, s225-s225.	0.1	1