

Casper Wilkens

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

775
citations

567281

15
h-index

610901

24
g-index

26
all docs

26
docs citations

26
times ranked

1130
citing authors

#	ARTICLE	IF	CITATIONS
1	Ten years of CAZypedia: a living encyclopedia of carbohydrate-active enzymes. <i>Glycobiology</i> , 2018, 28, 3-8.	2.5	175
2	Microbial enzymes catalyzing keratin degradation: Classification, structure, function. <i>Biotechnology Advances</i> , 2020, 44, 107607.	11.7	113
3	GH62 arabinofuranosidases: Structure, function and applications. <i>Biotechnology Advances</i> , 2017, 35, 792-804.	11.7	64
4	Analysis of surface binding sites (SBSs) in carbohydrate active enzymes with focus on glycoside hydrolase families 13 and 77 – a mini-review. <i>Biologia (Poland)</i> , 2014, 69, 705-712.	1.5	55
5	Functional Roles of Starch Binding Domains and Surface Binding Sites in Enzymes Involved in Starch Biosynthesis. <i>Frontiers in Plant Science</i> , 2018, 9, 1652.	3.6	38
6	Hyperactive antifreeze proteins from longhorn beetles: Some structural insights. <i>Journal of Insect Physiology</i> , 2012, 58, 1502-1510.	2.0	37
7	Diversity of microbial carbohydrate-active enzymes in Danish anaerobic digesters fed with wastewater treatment sludge. <i>Biotechnology for Biofuels</i> , 2017, 10, 158.	6.2	35
8	Proteomic enzyme analysis of the marine fungus <i>Paradendryphiella salina</i> reveals alginate lyase as a minimal adaptation strategy for brown algae degradation. <i>Scientific Reports</i> , 2019, 9, 12338.	3.3	34
9	Feruloylated Arabinoxylan and Oligosaccharides: Chemistry, Nutritional Functions, and Options for Enzymatic Modification. <i>Annual Review of Food Science and Technology</i> , 2021, 12, 331-354.	9.9	25
10	An efficient arabinoxylan-debranching α -L-arabinofuranosidase of family GH62 from <i>Aspergillus nidulans</i> contains a secondary carbohydrate binding site. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 6265-6277.	3.6	23
11	Using Carbohydrate Interaction Assays to Reveal Novel Binding Sites in Carbohydrate Active Enzymes. <i>PLoS ONE</i> , 2016, 11, e0160112.	2.5	22
12	A carbohydrate-binding family 48 module enables feruloyl esterase action on polymeric arabinoxylan. <i>Journal of Biological Chemistry</i> , 2019, 294, 17339-17353.	3.4	21
13	Plant α -glucan phosphatases SEX4 and LSF2 display different affinity for amylopectin and amylose. <i>FEBS Letters</i> , 2016, 590, 118-128.	2.8	18
14	Development of novel monoclonal antibodies against starch and ulvan - implications for antibody production against polysaccharides with limited immunogenicity. <i>Scientific Reports</i> , 2017, 7, 9326.	3.3	18
15	Specificities and Synergistic Actions of Novel PL8 and PL7 Alginate Lyases from the Marine Fungus <i>Paradendryphiella salina</i> . <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 80.	3.5	17
16	Purification, crystal structure determination and functional characterization of type III antifreeze proteins from the European eelpout <i>Zoarces viviparus</i> . <i>Cryobiology</i> , 2014, 69, 163-168.	0.7	15
17	Novel xylanolytic triple domain enzyme targeted at feruloylated arabinoxylan degradation. <i>Enzyme and Microbial Technology</i> , 2019, 129, 109353.	3.2	15
18	Bioinformatics based discovery of new keratinases in protease family M36. <i>New Biotechnology</i> , 2022, 68, 19-27.	4.4	15

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19	Selectivity of the surface binding site (SBS) on barley starch synthase I. <i>Biologia (Poland)</i> , 2014, 69, 1118-1121.	1.5	10
20	Analysis of Surface Binding Sites (SBS) within GH62, GH13, and GH77. <i>Journal of Applied Glycoscience</i> (1999), 2015, 62, 87-93.	0.7	8
21	Discovery of a Novel Glucuronan Lyase System in <i>Trichoderma parareesei</i> . <i>Applied and Environmental Microbiology</i> , 2022, 88, AEM0181921.	3.1	8
22	Affinity Electrophoresis for Analysis of Catalytic Module-Carbohydrate Interactions. <i>Methods in Molecular Biology</i> , 2017, 1588, 119-127.	0.9	6
23	A GH115 β -glucuronidase structure reveals dimerization-mediated substrate binding and a proton wire potentially important for catalysis. <i>Acta Crystallographica Section D: Structural Biology</i> , 2022, 78, 658-668.	2.3	2
24	Surface Binding Sites (SBSs), Mechanism and Regulation of Enzymes Degrading Amylopectin and β -Limit Dextrins. <i>Journal of Applied Glycoscience</i> (1999), 2013, 60, 101-109.	0.7	1
25	Asp271 is critical for substrate interaction with the surface binding site in β -agarase a from <i>Zobellia galactanivorans</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2019, 87, 34-40.	2.6	0