

Jean-guy Berrin

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107
papers

4,691
citations

38
h-index

66
g-index

110
ext. papers

5,541
ext. citations

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avg, IF

5.49
L-index

#	Paper	IF	Citations
107	Deglycosylation by small intestinal epithelial cell beta-glucosidases is a critical step in the absorption and metabolism of dietary flavonoid glycosides in humans. <i>European Journal of Nutrition</i> , 2003 , 42, 29-42	5.2	495
106	GH11 xylanases: Structure/function/properties relationships and applications. <i>Biotechnology Advances</i> , 2012 , 30, 564-92	17.8	276
105	Lytic xylan oxidases from wood-decay fungi unlock biomass degradation. <i>Nature Chemical Biology</i> , 2018 , 14, 306-310	11.7	183
104	Effects of grinding processes on enzymatic degradation of wheat straw. <i>Bioresource Technology</i> , 2012 , 103, 192-200	11	181
103	Fungal Enzymes for Bio-Products from Sustainable and Waste Biomass. <i>Trends in Biochemical Sciences</i> , 2016 , 41, 633-645	10.3	172
102	Substrate specificity and regioselectivity of fungal AA9 lytic polysaccharide monooxygenases secreted by <i>Podospora anserina</i> . <i>Biotechnology for Biofuels</i> , 2015 , 8, 90	7.8	169
101	Cello-oligosaccharide oxidation reveals differences between two lytic polysaccharide monooxygenases (Family GH61) from <i>Podospora anserina</i> . <i>Applied and Environmental Microbiology</i> , 2013 , 79, 488-96	4.8	132
100	Lytic polysaccharide monooxygenases disrupt the cellulose fibers structure. <i>Scientific Reports</i> , 2017 , 7, 40262	4.9	126
99	Post-genomic analyses of fungal lignocellulosic biomass degradation reveal the unexpected potential of the plant pathogen <i>Ustilago maydis</i> . <i>BMC Genomics</i> , 2012 , 13, 57	4.5	109
98	Interactions defining the specificity between fungal xylanases and the xylanase-inhibiting protein XIP-I from wheat. <i>Biochemical Journal</i> , 2002 , 365, 773-81	3.8	101
97	AA16, a new lytic polysaccharide monooxygenase family identified in fungal secretomes. <i>Biotechnology for Biofuels</i> , 2019 , 12, 55	7.8	96
96	Cloning, expression in <i>Pichia pastoris</i> , and characterization of a thermostable GH5 mannan endo-1,4-beta-mannosidase from <i>Aspergillus niger</i> BK01. <i>Microbial Cell Factories</i> , 2009 , 8, 59	6.4	95
95	Purification and biochemical characterization of a novel α -amylase from <i>Bacillus licheniformis</i> NH1: Cloning, nucleotide sequence and expression of amyN gene in <i>Escherichia coli</i> . <i>Process Biochemistry</i> , 2008 , 43, 499-510	4.8	91
94	<i>Podospora anserina</i> hemicellulases potentiate the <i>Trichoderma reesei</i> secretome for saccharification of lignocellulosic biomass. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 237-46	4.8	86
93	Single-domain flavoenzymes trigger lytic polysaccharide monooxygenases for oxidative degradation of cellulose. <i>Scientific Reports</i> , 2016 , 6, 28276	4.9	82
92	High-level production of recombinant fungal endo-beta-1,4-xylanase in the methylotrophic yeast <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2000 , 19, 179-87	2	71
91	Fungal Strategies for Lignin Degradation. <i>Advances in Botanical Research</i> , 2012 , 61, 263-308	2.2	68

90	Structural and biochemical analyses of glycoside hydrolase families 5 and 26 E(1,4)-mannanases from <i>Podospora anserina</i> reveal differences upon manno-oligosaccharide catalysis. <i>Journal of Biological Chemistry</i> , 2013 , 288, 14624-14635	5.4	67
89	Factors affecting xylanase functionality in the degradation of arabinoxylans. <i>Biotechnology Letters</i> , 2008 , 30, 1139-50	3	65
88	Substrate (aglycone) specificity of human cytosolic beta-glucosidase. <i>Biochemical Journal</i> , 2003 , 373, 41-8	3.8	65
87	Specific characterization of substrate and inhibitor binding sites of a glycosyl hydrolase family 11 xylanase from <i>Aspergillus niger</i> . <i>Journal of Biological Chemistry</i> , 2002 , 277, 44035-43	5.4	65
86	Characterization of salt-adapted secreted lignocellulolytic enzymes from the mangrove fungus <i>Pestalotiopsis</i> sp. <i>Nature Communications</i> , 2013 , 4, 1810	17.4	64
85	Functional expression of human liver cytosolic beta-glucosidase in <i>Pichia pastoris</i> . Insights into its role in the metabolism of dietary glucosides. <i>FEBS Journal</i> , 2002 , 269, 249-58		58
84	Recent insights into lytic polysaccharide monooxygenases (LPMOs). <i>Biochemical Society Transactions</i> , 2018 , 46, 1431-1447	5.1	58
83	<i>Fusarium verticillioides</i> secretome as a source of auxiliary enzymes to enhance saccharification of wheat straw. <i>Bioresource Technology</i> , 2012 , 114, 589-96	11	57
82	Stress induces the expression of AtNADK-1, a gene encoding a NAD(H) kinase in <i>Arabidopsis thaliana</i> . <i>Molecular Genetics and Genomics</i> , 2005 , 273, 10-9	3.1	56
81	Structure-function characterization reveals new catalytic diversity in the galactose oxidase and glyoxal oxidase family. <i>Nature Communications</i> , 2015 , 6, 10197	17.4	55
80	Heterologous expression of <i>Pycnoporus cinnabarinus</i> cellobiose dehydrogenase in <i>Pichia pastoris</i> and involvement in saccharification processes. <i>Microbial Cell Factories</i> , 2011 , 10, 113	6.4	53
79	Automated assay for screening the enzymatic release of reducing sugars from micronized biomass. <i>Microbial Cell Factories</i> , 2010 , 9, 58	6.4	53
78	Hydrolysis of softwood by <i>Aspergillus</i> mannanase: role of a carbohydrate-binding module. <i>Journal of Biotechnology</i> , 2010 , 148, 163-70	3.7	53
77	Enhanced degradation of softwood versus hardwood by the white-rot fungus <i>Pycnoporus coccineus</i> . <i>Biotechnology for Biofuels</i> , 2015 , 8, 216	7.8	52
76	Exploring the natural fungal biodiversity of tropical and temperate forests toward improvement of biomass conversion. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 6483-90	4.8	49
75	The crystal structure of human cytosolic beta-glucosidase unravels the substrate aglycone specificity of a family 1 glycoside hydrolase. <i>Journal of Molecular Biology</i> , 2007 , 370, 964-75	6.5	43
74	Fast solubilization of recalcitrant cellulosic biomass by the basidiomycete fungus <i>Laetisaria arvalis</i> involves successive secretion of oxidative and hydrolytic enzymes. <i>Biotechnology for Biofuels</i> , 2014 , 7, 143	7.8	41
73	Substrate and product hydrolysis specificity in family 11 glycoside hydrolases: an analysis of <i>Penicillium funiculosum</i> and <i>Penicillium griseofulvum</i> xylanases. <i>Applied Microbiology and Biotechnology</i> , 2007 , 74, 1001-10	5.7	41

72	Salt-responsive lytic polysaccharide monooxygenases from the mangrove fungus <i>Pestalotiopsis</i> sp. NCI6. <i>Biotechnology for Biofuels</i> , 2016 , 9, 108	7.8	41
71	Fungal secretomics to probe the biological functions of lytic polysaccharide monooxygenases. <i>Carbohydrate Research</i> , 2017 , 448, 155-160	2.9	38
70	The integrative omics of white-rot fungus <i>Pycnoporus coccineus</i> reveals co-regulated CAZymes for orchestrated lignocellulose breakdown. <i>PLoS ONE</i> , 2017 , 12, e0175528	3.7	38
69	Lytic polysaccharide monooxygenases (LPMOs) facilitate cellulose nanofibrils production. <i>Biotechnology for Biofuels</i> , 2019 , 12, 156	7.8	37
68	Functional analysis of family GH36 β -galactosidases from <i>Ruminococcus gnavus</i> E1: insights into the metabolism of a plant oligosaccharide by a human gut symbiont. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 7720-32	4.8	37
67	The lytic polysaccharide monooxygenase LPMO9H catalyzes oxidative cleavage of diverse plant cell wall matrix glycans. <i>Biotechnology for Biofuels</i> , 2017 , 10, 63	7.8	36
66	Insights into exo- and endoglucanase activities of family 6 glycoside hydrolases from <i>Podospora anserina</i> . <i>Applied and Environmental Microbiology</i> , 2013 , 79, 4220-9	4.8	36
65	GH62 arabinofuranosidases: Structure, function and applications. <i>Biotechnology Advances</i> , 2017 , 35, 792-804	7.8	36
64	The yeast encodes functional lytic polysaccharide monooxygenases. <i>Biotechnology for Biofuels</i> , 2017 , 10, 215	7.8	33
63	Comparative analyses of <i>Podospora anserina</i> secretomes reveal a large array of lignocellulose-active enzymes. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 7457-69	5.7	33
62	Characterization of a broad-specificity β -glucanase acting on β (1,3)-, β (1,4)-, and β (1,6)-glucans that defines a new glycoside hydrolase family. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 8540-6	4.8	33
61	A thermostable GH45 endoglucanase from yeast: impact of its atypical multimodularity on activity. <i>Microbial Cell Factories</i> , 2011 , 10, 103	6.4	33
60	A fungal family of lytic polysaccharide monooxygenase-like copper proteins. <i>Nature Chemical Biology</i> , 2020 , 16, 345-350	11.7	33
59	First structural insights into β -arabinofuranosidases from the two GH62 glycoside hydrolase subfamilies. <i>Journal of Biological Chemistry</i> , 2014 , 289, 5261-73	5.4	32
58	Influence of the carbohydrate-binding module on the activity of a fungal AA9 lytic polysaccharide monooxygenase on cellulosic substrates. <i>Biotechnology for Biofuels</i> , 2019 , 12, 206	7.8	31
57	The ectomycorrhizal basidiomycete <i>Laccaria bicolor</i> releases a secreted β 1,4 endoglucanase that plays a key role in symbiosis development. <i>New Phytologist</i> , 2018 , 220, 1309-1321	9.8	26
56	Molecular determinants of substrate and inhibitor specificities of the <i>Penicillium griseofulvum</i> family 11 xylanases. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009 , 1794, 438-45	4	26
55	Enzymatic synthesis of model substrates recognized by glucuronoyl esterases from <i>Podospora anserina</i> and <i>Myceliophthora thermophila</i> . <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 5507-16	5.7	25

54	Characterization of a new aryl-alcohol oxidase secreted by the phytopathogenic fungus <i>Ustilago maydis</i> . <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 697-706	5.7	24
53	Plant biomass degrading ability of the coprophilic ascomycete fungus <i>Podospira anserina</i> . <i>Biotechnology Advances</i> , 2016 , 34, 976-983	17.8	24
52	Recombinant protein production facility for fungal biomass-degrading enzymes using the yeast <i>Pichia pastoris</i> . <i>Frontiers in Microbiology</i> , 2015 , 6, 1002	5.7	24
51	Visual Comparative Omics of Fungi for Plant Biomass Deconstruction. <i>Frontiers in Microbiology</i> , 2016 , 7, 1335	5.7	24
50	Dynamic and Functional Profiling of Xylan-Degrading Enzymes in Secretomes Using Activity-Based Probes. <i>ACS Central Science</i> , 2019 , 5, 1067-1078	16.8	23
49	Molecular engineering of fungal GH5 and GH26 beta-(1,4)-mannanases toward improvement of enzyme activity. <i>PLoS ONE</i> , 2013 , 8, e79800	3.7	23
48	Cell-surface display technology and metabolic engineering of <i>Saccharomyces cerevisiae</i> for enhancing xylitol production from woody biomass. <i>Green Chemistry</i> , 2019 , 21, 1795-1808	10	22
47	Rational Design of Mechanism-Based Inhibitors and Activity-Based Probes for the Identification of Retaining β -Arabinofuranosidases. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4648-4662	16.4	20
46	Use of Cellulases from <i>Trichoderma reesei</i> in the Twenty-First Century Part I 2014 , 245-261		20
45	A new synergistic relationship between xylan-active LPMO and xylobiohydrolase to tackle recalcitrant xylan. <i>Biotechnology for Biofuels</i> , 2020 , 13, 142	7.8	20
44	Insights into an unusual Auxiliary Activity 9 family member lacking the histidine brace motif of lytic polysaccharide monooxygenases. <i>Journal of Biological Chemistry</i> , 2019 , 294, 17117-17130	5.4	19
43	Investigation of the binding properties of a multi-modular GH45 cellulase using bioinspired model assemblies. <i>Biotechnology for Biofuels</i> , 2016 , 9, 12	7.8	19
42	Action of lytic polysaccharide monooxygenase on plant tissue is governed by cellular type. <i>Scientific Reports</i> , 2017 , 7, 17792	4.9	18
41	Comparison of fungal carbohydrate esterases of family CE16 on artificial and natural substrates. <i>Journal of Biotechnology</i> , 2016 , 233, 228-36	3.7	16
40	Lavender- and lavandin-distilled straws: an untapped feedstock with great potential for the production of high-added value compounds and fungal enzymes. <i>Biotechnology for Biofuels</i> , 2018 , 11, 217	7.8	16
39	Identification of the zinc binding ligands and the catalytic residue in human aspartoacylase, an enzyme involved in Canavan disease. <i>FEBS Letters</i> , 2006 , 580, 5899-904	3.8	15
38	Discovery of fungal oligosaccharide-oxidising flavo-enzymes with previously unknown substrates, redox-activity profiles and interplay with LPMOs. <i>Nature Communications</i> , 2021 , 12, 2132	17.4	15
37	Tracking of enzymatic biomass deconstruction by fungal secretomes highlights markers of lignocellulose recalcitrance. <i>Biotechnology for Biofuels</i> , 2019 , 12, 76	7.8	14

36	Conserved white-rot enzymatic mechanism for wood decay in the Basidiomycota genus <i>Pycnoporus</i> . <i>DNA Research</i> , 2020 , 27,	4.5	13
35	Structure-based mutagenesis of <i>Penicillium griseofulvum</i> xylanase using computational design. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 72, 1298-307	4.2	13
34	A unique CE16 acetyl esterase from <i>Podospora anserina</i> active on polymeric xylan. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 10515-26	5.7	12
33	Enzyme Activities of Two Recombinant Heme-Containing Peroxidases, DyP1 and VP2, Identified from the Secretome of <i>Trametes versicolor</i> . <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	11
32	Inactivation of Cellobiose Dehydrogenases Modifies the Cellulose Degradation Mechanism of <i>Podospora anserina</i> . <i>Applied and Environmental Microbiology</i> , 2017 , 83,	4.8	11
31	Comprehensive Insights into the Production of Long Chain Aliphatic Aldehydes Using a Copper-Radical Alcohol Oxidase as Biocatalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 4411-4421	8.2	11
30	Fungal Enzymatic Degradation of Cellulose. <i>Green Energy and Technology</i> , 2016 , 133-146	0.6	9
29	Biocatalytic oxidation of fatty alcohols into aldehydes for the flavors and fragrances industry. <i>Biotechnology Advances</i> , 2021 , 107787	17.8	9
28	Characterization of a mycobacterial cellulase and its impact on biofilm- and drug-induced cellulose production. <i>Glycobiology</i> , 2017 , 27, 392-399	5.8	8
27	Broad-specificity GH131 β glucanases are a hallmark of fungi and oomycetes that colonize plants. <i>Environmental Microbiology</i> , 2019 , 21, 2724-2739	5.2	8
26	On the expansion of biological functions of lytic polysaccharide monooxygenases.. <i>New Phytologist</i> , 2021 ,	9.8	8
25	The Quaternary Structure of a Glycoside Hydrolase Dictates Specificity toward β Glucans. <i>Journal of Biological Chemistry</i> , 2016 , 291, 7183-94	5.4	8
24	Evaluation of the Enzymatic Arsenal Secreted by During Growth on Sugarcane Bagasse With a Focus on LPMOs. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 1028	5.8	7
23	Identification of the molecular determinants driving the substrate specificity of fungal lytic polysaccharide monooxygenases (LPMOs). <i>Journal of Biological Chemistry</i> , 2021 , 296, 100086	5.4	7
22	Enzymes to unravel bioproducts architecture. <i>Biotechnology Advances</i> , 2020 , 41, 107546	17.8	6
21	Functional characterization of <i>Penicillium occitanis</i> Pol6 and <i>Penicillium funiculosum</i> GH11 xylanases. <i>Protein Expression and Purification</i> , 2013 , 90, 195-201	2	6
20	Fungal Lytic Polysaccharide Monooxygenases (LPMOs): Biological Importance and Applications 2021 , 281-294		6
19	Structural insights into a family 39 glycoside hydrolase from the gut symbiont <i>Bacteroides cellulosilyticus</i> WH2. <i>Journal of Structural Biology</i> , 2017 , 197, 227-235	3.4	5

18	NMR analysis of the binding mode of two fungal endo- β ,4-mannanases from GH5 and GH26 families. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 314-22	3.9	5
17	From fungal secretomes to enzymes cocktails: The path forward to bioeconomy. <i>Biotechnology Advances</i> , 2021 , 52, 107833	17.8	5
16	The Saccharification Step: The Main Enzymatic Components 2013 , 93-110		4
15	The Secretomes of and Supplement the Rovabio Enzyme Cocktail for the Degradation of Soybean Meal for Animal Feed. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021 , 7,	5.6	4
14	Large-scale phenotyping of 1,000 fungal strains for the degradation of non-natural, industrial compounds. <i>Communications Biology</i> , 2021 , 4, 871	6.7	4
13	Inhibition of lytic polysaccharide monooxygenase by natural plant extracts. <i>New Phytologist</i> , 2021 , 232, 1337-1349	9.8	4
12	Use of Cellulases from <i>Trichoderma reesei</i> in the Twenty-First Century Part II: Optimization of Cellulolytic Cocktails for Saccharification of Lignocellulosic Feedstocks 2014 , 263-280		3
11	Tunable Production of (-)- or (+)-Citronellal from Geraniol via a Biezymatic Cascade Using a Copper Radical Alcohol Oxidase and Old Yellow Enzyme.. <i>ACS Catalysis</i> , 2022 , 12, 1111-1116	13.1	3
10	Bioinformatic Analysis of Lytic Polysaccharide Monooxygenases Reveals the Pan-Families Occurrence of Intrinsically Disordered C-Terminal Extensions. <i>Biomolecules</i> , 2021 , 11,	5.9	3
9	Unravelling the role of alcohol copper radical oxidases in fungal plant pathogens		3
8	The ectomycorrhizal basidiomycete <i>Laccaria bicolor</i> releases a GH28 polygalacturonase that plays a key role in symbiosis establishment.. <i>New Phytologist</i> , 2021 ,	9.8	2
7	A survey of substrate specificity among Auxiliary Activity Family 5 copper radical oxidases . <i>Cellular and Molecular Life Sciences</i> , 2021 , 78, 8187-8208	10.3	2
6	Identification of Copper-Containing Oxidoreductases in the Secretomes of Three Species with a Focus on Copper Radical Oxidases for the Biocatalytic Production of Fatty Aldehydes. <i>Applied and Environmental Microbiology</i> , 2021 , 87, e0152621	4.8	2
5	Activity-based protein profiling reveals dynamic substrate-specific cellulase secretion by saprotrophic basidiomycetes. 2022 , 15, 6		0
4	Plant wastes and sustainable refineries: what can we learn from fungi?. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2022 , 34, 100602	7.9	0
3	Analysis of the substrate specificity of β -L-arabinofuranosidases by DNA sequencer-aided fluorophore-assisted carbohydrate electrophoresis. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 10091-10102	5.7	0
2	Less Wastage in a Bottle. <i>Trends in Chemistry</i> , 2020 , 2, 686-688	14.8	
1	Exploring the impact of <i>Verticillium wilt</i> disease on the mechanical properties of elementary flax (<i>Linum usitatissimum</i> L.) fibres. <i>Industrial Crops and Products</i> , 2022 , 182, 114900	5.9	

