Jean-guy Berrin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

4,691 66 38 107 h-index g-index citations papers 110 7.2 5.49 5,541 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
107	Tunable Production of ()- or ()-Citronellal from Geraniol via a Bienzymatic Cascade Using a Copper Radical Alcohol Oxidase and Old Yellow Enzyme <i>ACS Catalysis</i> , 2022 , 12, 1111-1116	13.1	3
106	Activity-based protein profiling reveals dynamic substrate-specific cellulase secretion by saprotrophic basidiomycetes. 2022 , 15, 6		0
105	Plant wastes and sustainable refineries: what can we learn from fungi?. Current Opinion in Green and Sustainable Chemistry, 2022, 34, 100602	7.9	O
104	Exploring the impact of Verticillium wilt disease on the mechanical properties of elementary flax (Linum usitatissimum L.) fibres. <i>Industrial Crops and Products</i> , 2022 , 182, 114900	5.9	
103	The ectomycorrhizal basidiomycete Laccaria bicolor releases a GH28 polygalacturonase that plays a key role in symbiosis establishment <i>New Phytologist</i> , 2021 ,	9.8	2
102	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
101	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
100	On the expansion of biological functions of lytic polysaccharide monooxygenases <i>New Phytologist</i> , 2021 ,	9.8	8
99	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
98	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
97	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
96	Biocatalytic oxidation of fatty alcohols into aldehydes for the flavors and fragrances industry. <i>Biotechnology Advances</i> , 2021 , 107787	17.8	9
95	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
94	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, 441	1 ⁸ 4421	11
93	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
92	Inhibition of lytic polysaccharide monooxygenase by natural plant extracts. <i>New Phytologist</i> , 2021 , 232, 1337-1349	9.8	4
91	From fungal secretomes to enzymes cocktails: The path forward to bioeconomy. <i>Biotechnology Advances</i> , 2021 , 52, 107833	17.8	5

(2018-2021)

90	Fungal Lytic Polysaccharide Monooxygenases (LPMOs): Biological Importance and Applications 2021 , 281-294		6
89	Conserved white-rot enzymatic mechanism for wood decay in the Basidiomycota genus Pycnoporus. <i>DNA Research</i> , 2020 , 27,	4.5	13
88	Rational Design of Mechanism-Based Inhibitors and Activity-Based Probes for the Identification of Retaining El-Arabinofuranosidases. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4648-4662	16.4	20
87	Enzymes to unravel bioproducts architecture. <i>Biotechnology Advances</i> , 2020 , 41, 107546	17.8	6
86	Less Wastage in a Bottle. <i>Trends in Chemistry</i> , 2020 , 2, 686-688	14.8	
85	A fungal family of lytic polysaccharide monooxygenase-like copper proteins. <i>Nature Chemical Biology</i> , 2020 , 16, 345-350	11.7	33
84	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
83	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
82	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
81	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
80	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
79	Broad-specificity GH131 lglucanases are a hallmark of fungi and oomycetes that colonize plants. <i>Environmental Microbiology</i> , 2019 , 21, 2724-2739	5.2	8
78	Cell-surface display technology and metabolic engineering of Saccharomyces cerevisiae for enhancing xylitol production from woody biomass. <i>Green Chemistry</i> , 2019 , 21, 1795-1808	10	22
77	AA16, a new lytic polysaccharide monooxygenase family identified in fungal secretomes. <i>Biotechnology for Biofuels</i> , 2019 , 12, 55	7.8	96
76	Tracking of enzymatic biomass deconstruction by fungal secretomes highlights markers of lignocellulose recalcitrance. <i>Biotechnology for Biofuels</i> , 2019 , 12, 76	7.8	14
75	Lytic polysaccharide monooxygenases (LPMOs) facilitate cellulose nanofibrils production. <i>Biotechnology for Biofuels</i> , 2019 , 12, 156	7.8	37
74	The ectomycorrhizal basidiomycete Laccaria bicolor releases a secreted £1,4 endoglucanase that plays a key role in symbiosis development. <i>New Phytologist</i> , 2018 , 220, 1309-1321	9.8	26
73	Enzyme Activities of Two Recombinant Heme-Containing Peroxidases, DyP1 and VP2, Identified from the Secretome of Trametes versicolor. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	11

72	Lytic xylan oxidases from wood-decay fungi unlock biomass degradation. <i>Nature Chemical Biology</i> , 2018 , 14, 306-310	11.7	183
71	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
70	Analysis of the substrate specificity of El-arabinofuranosidases by DNA sequencer-aided fluorophore-assisted carbohydrate electrophoresis. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 10091-10102	5.7	O
69	Recent insights into lytic polysaccharide monooxygenases (LPMOs). <i>Biochemical Society Transactions</i> , 2018 , 46, 1431-1447	5.1	58
68	Lytic polysaccharide monooxygenases disrupt the cellulose fibers structure. <i>Scientific Reports</i> , 2017 , 7, 40262	4.9	126
67	Structural insights into a family 39 glycoside hydrolase from the gut symbiont Bacteroides cellulosilyticus WH2. <i>Journal of Structural Biology</i> , 2017 , 197, 227-235	3.4	5
66	Fungal secretomics to probe the biological functions of lytic polysaccharide monooxygenases. <i>Carbohydrate Research</i> , 2017 , 448, 155-160	2.9	38
65	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
64	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
63	The integrative omics of white-rot fungus Pycnoporus coccineus reveals co-regulated CAZymes for orchestrated lignocellulose breakdown. <i>PLoS ONE</i> , 2017 , 12, e0175528	3.7	38
62	The yeast encodes functional lytic polysaccharide monooxygenases. <i>Biotechnology for Biofuels</i> , 2017 , 10, 215	7.8	33
61	GH62 arabinofuranosidases: Structure, function and applications. <i>Biotechnology Advances</i> , 2017 , 35, 79	2 -18, 08	36
60	Inactivation of Cellobiose Dehydrogenases Modifies the Cellulose Degradation Mechanism of Podospora anserina. <i>Applied and Environmental Microbiology</i> , 2017 , 83,	4.8	11
59	Action of lytic polysaccharide monooxygenase on plant tissue is governed by cellular type. <i>Scientific Reports</i> , 2017 , 7, 17792	4.9	18
58	Characterization of a new aryl-alcohol oxidase secreted by the phytopathogenic fungus Ustilago maydis. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 697-706	5.7	24
57	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
56	Fungal Enzymatic Degradation of Cellulose. <i>Green Energy and Technology</i> , 2016 , 133-146	0.6	9
55	Single-domain flavoenzymes trigger lytic polysaccharide monooxygenases for oxidative degradation of cellulose. <i>Scientific Reports</i> , 2016 , 6, 28276	4.9	82

(2014-2016)

54	Plant biomass degrading ability of the coprophilic ascomycete fungus Podospora anserina. <i>Biotechnology Advances</i> , 2016 , 34, 976-983	17.8	24
53	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
52	NMR analysis of the binding mode of two fungal endo-£1,4-mannanases from GH5 and GH26 families. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 314-22	3.9	5
51	Visual Comparative Omics of Fungi for Plant Biomass Deconstruction. <i>Frontiers in Microbiology</i> , 2016 , 7, 1335	5.7	24
50	Salt-responsive lytic polysaccharide monooxygenases from the mangrove fungus Pestalotiopsis sp. NCi6. <i>Biotechnology for Biofuels</i> , 2016 , 9, 108	7.8	41
49	The Quaternary Structure of a Glycoside Hydrolase Dictates Specificity toward Educans. <i>Journal of Biological Chemistry</i> , 2016 , 291, 7183-94	5.4	8
48	Fungal Enzymes for Bio-Products from Sustainable and Waste Biomass. <i>Trends in Biochemical Sciences</i> , 2016 , 41, 633-645	10.3	172
47	A unique CE16 acetyl esterase from Podospora anserina active on polymeric xylan. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 10515-26	5.7	12
46	Enhanced degradation of softwood versus hardwood by the white-rot fungus Pycnoporus coccineus. <i>Biotechnology for Biofuels</i> , 2015 , 8, 216	7.8	52
45	Substrate specificity and regioselectivity of fungal AA9 lytic polysaccharide monooxygenases secreted by Podospora anserina. <i>Biotechnology for Biofuels</i> , 2015 , 8, 90	7.8	169
44	Recombinant protein production facility for fungal biomass-degrading enzymes using the yeast Pichia pastoris. <i>Frontiers in Microbiology</i> , 2015 , 6, 1002	5.7	24
43	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
42	Enzymatic synthesis of model substrates recognized by glucuronoyl esterases from Podospora anserina and Myceliophthora thermophila. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 5507-16	5.7	25
41	Use of Cellulases from Trichoderma reesei in the Twenty-First Century Part I 2014, 245-261		20
40	First structural insights into £-arabinofuranosidases from the two GH62 glycoside hydrolase subfamilies. <i>Journal of Biological Chemistry</i> , 2014 , 289, 5261-73	5.4	32
39	Fast solubilization of recalcitrant cellulosic biomass by the basidiomycete fungus Laetisaria arvalis involves successive secretion of oxidative and hydrolytic enzymes. <i>Biotechnology for Biofuels</i> , 2014 , 7, 143	7.8	41
38	Use of Cellulases from Trichoderma reesei in the Twenty-First Century Part II: Optimization of Cellulolytic Cocktails for Saccharification of Lignocellulosic Feedstocks 2014 , 263-280		3
37	Comparative analyses of Podospora anserina secretomes reveal a large array of lignocellulose-active enzymes. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 7457-69	5.7	33

36	Functional characterization of Penicillium occitanis Pol6 and Penicillium funiculosum GH11 xylanases. <i>Protein Expression and Purification</i> , 2013 , 90, 195-201	2	6
35	Insights into exo- and endoglucanase activities of family 6 glycoside hydrolases from Podospora anserina. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 4220-9	4.8	36
34	The Saccharification Step: The Main Enzymatic Components 2013 , 93-110		4
33	Characterization of salt-adapted secreted lignocellulolytic enzymes from the mangrove fungus Pestalotiopsis sp. <i>Nature Communications</i> , 2013 , 4, 1810	17.4	64
32	Cello-oligosaccharide oxidation reveals differences between two lytic polysaccharide monooxygenases (family GH61) from Podospora anserina. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 488-96	4.8	132
31	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
30	Structural and biochemical analyses of glycoside hydrolase families 5 and 26 E(1,4)-mannanases from Podospora anserina reveal differences upon manno-oligosaccharide catalysis. <i>Journal of Biological Chemistry</i> , 2013 , 288, 14624-14635	5.4	67
29	Effects of grinding processes on enzymatic degradation of wheat straw. <i>Bioresource Technology</i> , 2012 , 103, 192-200	11	181
28	Fusarium verticillioides secretome as a source of auxiliary enzymes to enhance saccharification of wheat straw. <i>Bioresource Technology</i> , 2012 , 114, 589-96	11	57
27	Characterization of a broad-specificity Eglucanase acting on E(1,3)-, E(1,4)-, and E(1,6)-glucans that defines a new glycoside hydrolase family. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 8540-6	4.8	33
26	Post-genomic analyses of fungal lignocellulosic biomass degradation reveal the unexpected potential of the plant pathogen Ustilago maydis. <i>BMC Genomics</i> , 2012 , 13, 57	4.5	109
25	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
24	GH11 xylanases: Structure/function/properties relationships and applications. <i>Biotechnology Advances</i> , 2012 , 30, 564-92	17.8	276
23	Functional analysis of family GH36 Egalactosidases from Ruminococcus gnavus 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
22	Fungal Strategies for Lignin Degradation. Advances in Botanical Research, 2012, 61, 263-308	2.2	68
21	A thermostable GH45 endoglucanase from yeast: impact of its atypical multimodularity on activity. <i>Microbial Cell Factories</i> , 2011 , 10, 103	6.4	33
20	Heterologous expression of Pycnoporus cinnabarinus cellobiose dehydrogenase in Pichia pastoris and involvement in saccharification processes. <i>Microbial Cell Factories</i> , 2011 , 10, 113	6.4	53
19	Podospora anserina hemicellulases potentiate the Trichoderma reesei secretome for saccharification of lignocellulosic biomass. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 237-46	4.8	86

18	Automated assay for screening the enzymatic release of reducing sugars from micronized biomass. <i>Microbial Cell Factories</i> , 2010 , 9, 58	6.4	53	
17	Hydrolysis of softwood by Aspergillus mannanase: role of a carbohydrate-binding module. <i>Journal of Biotechnology</i> , 2010 , 148, 163-70	3.7	53	
16	Molecular determinants of substrate and inhibitor specificities of the Penicillium griseofulvum family 11 xylanases. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009 , 1794, 438-45	4	26	
15	Cloning, expression in Pichia pastoris, and characterization of a thermostable GH5 mannan endo-1,4-beta-mannosidase from Aspergillus niger BK01. <i>Microbial Cell Factories</i> , 2009 , 8, 59	6.4	95	
14	Factors affecting xylanase functionality in the degradation of arabinoxylans. <i>Biotechnology Letters</i> , 2008 , 30, 1139-50	3	65	
13	Structure-based mutagenesis of Penicillium griseofulvum xylanase using computational design. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 72, 1298-307	4.2	13	
12	Purification and biochemical characterization of a novel Emylase from Bacillus licheniformis NH1: Cloning, nucleotide sequence and expression of amyN gene in Escherichia coli. <i>Process Biochemistry</i> , 2008 , 43, 499-510	4.8	91	
11	Substrate and product hydrolysis specificity in family 11 glycoside hydrolases: an analysis of Penicillium funiculosum and Penicillium griseofulvum xylanases. <i>Applied Microbiology and Biotechnology</i> , 2007 , 74, 1001-10	5.7	41	
10	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	
9	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	
8	Stress induces the expression of AtNADK-1, a gene encoding a NAD(H) kinase in Arabidopsis thaliana. <i>Molecular Genetics and Genomics</i> , 2005 , 273, 10-9	3.1	56	
7	Substrate (aglycone) specificity of human cytosolic beta-glucosidase. <i>Biochemical Journal</i> , 2003 , 373, 41-8	3.8	65	
6	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	
5	Functional expression of human liver cytosolic beta-glucosidase in Pichia pastoris. Insights into its role in the metabolism of dietary glucosides. <i>FEBS Journal</i> , 2002 , 269, 249-58		58	
4	Specific characterization of substrate and inhibitor binding sites of a glycosyl hydrolase family 11 xylanase from Aspergillus niger. <i>Journal of Biological Chemistry</i> , 2002 , 277, 44035-43	5.4	65	
3	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	
2	High-level production of recombinant fungal endo-beta-1,4-xylanase in the methylotrophic yeast Pichia pastoris. <i>Protein Expression and Purification</i> , 2000 , 19, 179-87	2	71	
1	Unravelling the role of alcohol copper radical oxidases in fungal plant pathogens		3	