

# Vincent G Eijsink

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6807655/publications.pdf>

Version: 2024-02-01

220  
papers

17,411  
citations

13099

68  
h-index

17105

122  
g-index

231  
all docs

231  
docs citations

231  
times ranked

10274  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Oxidative Enzyme Boosting the Enzymatic Conversion of Recalcitrant Polysaccharides. <i>Science</i> , 2010, 330, 219-222.	12.6	1,059
2	Novel enzymes for the degradation of cellulose. <i>Biotechnology for Biofuels</i> , 2012, 5, 45.	6.2	803
3	Production of Chito oligosaccharides and Their Potential Applications in Medicine. <i>Marine Drugs</i> , 2010, 8, 1482-1517.	4.6	496
4	Rational engineering of enzyme stability. <i>Journal of Biotechnology</i> , 2004, 113, 105-120.	3.8	408
5	Oxidative cleavage of polysaccharides by monocopper enzymes depends on H <sub>2</sub> O <sub>2</sub> . <i>Nature Chemical Biology</i> , 2017, 13, 1123-1128.	8.0	401
6	Extracellular electron transfer systems fuel cellulose oxidative degradation. <i>Science</i> , 2016, 352, 1098-1101.	12.6	368
7	Discovery of LPMO activity on hemicelluloses shows the importance of oxidative processes in plant cell wall degradation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6287-6292.	7.1	358
8	The Non-catalytic Chitin-binding Protein CBP21 from <i>Serratia marcescens</i> Is Essential for Chitin Degradation. <i>Journal of Biological Chemistry</i> , 2005, 280, 28492-28497.	3.4	321
9	Cleavage of cellulose by a CBM33 protein. <i>Protein Science</i> , 2011, 20, 1479-1483.	7.6	317
10	Production of class II bacteriocins by lactic acid bacteria; an example of biological warfare and communication. <i>Antonie Van Leeuwenhoek</i> , 2002, 81, 639-654.	1.7	291
11	A C4-oxidizing Lytic Polysaccharide Monooxygenase Cleaving Both Cellulose and Cello-oligosaccharides. <i>Journal of Biological Chemistry</i> , 2014, 289, 2632-2642.	3.4	281
12	Crystal Structure and Binding Properties of the <i>Serratia marcescens</i> Chitin-binding Protein CBP21. <i>Journal of Biological Chemistry</i> , 2005, 280, 11313-11319.	3.4	257
13	The chitinolytic machinery of <i>Serratia marcescens</i> – a model system for enzymatic degradation of recalcitrant polysaccharides. <i>FEBS Journal</i> , 2013, 280, 3028-3049.	4.7	244
14	Structural and functional characterization of a conserved pair of bacterial cellulose-oxidizing lytic polysaccharide monooxygenases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8446-8451.	7.1	241
15	Costs and benefits of processivity in enzymatic degradation of recalcitrant polysaccharides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 18089-18094.	7.1	238
16	NMR structure of a lytic polysaccharide monooxygenase provides insight into copper binding, protein dynamics, and substrate interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18779-18784.	7.1	236
17	Endo/exo mechanism and processivity of family 18 chitinases produced by <i>Serratia marcescens</i> . <i>FEBS Journal</i> , 2006, 273, 491-503.	4.7	235
18	The Putative Endoglucanase PcGH61D from <i>Phanerochaete chrysosporium</i> Is a Metal-Dependent Oxidative Enzyme that Cleaves Cellulose. <i>PLoS ONE</i> , 2011, 6, e27807.	2.5	226

#	ARTICLE	IF	CITATIONS
19	Oxidoreductases and Reactive Oxygen Species in Conversion of Lignocellulosic Biomass. <i>Microbiology and Molecular Biology Reviews</i> , 2018, 82, .	6.6	204
20	Characterization of microbial community structure during continuous anaerobic digestion of straw and cow manure. <i>Microbial Biotechnology</i> , 2015, 8, 815-827.	4.2	197
21	High-level, inducible gene expression in <i>Lactobacillus sakei</i> and <i>Lactobacillus plantarum</i> using versatile expression vectors. <i>Microbiology (United Kingdom)</i> , 2005, 151, 2439-2449.	1.8	193
22	Metagenomics of the Svalbard Reindeer Rumen Microbiome Reveals Abundance of Polysaccharide Utilization Loci. <i>PLoS ONE</i> , 2012, 7, e38571.	2.5	190
23	Harnessing the potential of LPMO-containing cellulase cocktails poses new demands on processing conditions. <i>Biotechnology for Biofuels</i> , 2015, 8, 187.	6.2	187
24	Enzymatic cellulose oxidation is linked to lignin by long-range electron transfer. <i>Scientific Reports</i> , 2015, 5, 18561.	3.3	180
25	Mutational and computational analysis of the role of conserved residues in the active site of a family 18 chitinase. <i>FEBS Journal</i> , 2004, 271, 253-262.	0.2	164
26	Structural diversity of lytic polysaccharide monooxygenases. <i>Current Opinion in Structural Biology</i> , 2017, 44, 67-76.	5.7	162
27	Crystal Structure and Computational Characterization of the Lytic Polysaccharide Monooxygenase GH61D from the Basidiomycota Fungus <i>Phanerochaete chrysosporium</i> . <i>Journal of Biological Chemistry</i> , 2013, 288, 12828-12839.	3.4	158
28	Structural and Functional Characterization of a Lytic Polysaccharide Monooxygenase with Broad Substrate Specificity. <i>Journal of Biological Chemistry</i> , 2015, 290, 22955-22969.	3.4	157
29	A rapid quantitative activity assay shows that the <i>Vibrio cholerae</i> colonization factor GbpA is an active lytic polysaccharide monooxygenase. <i>FEBS Letters</i> , 2014, 588, 3435-3440.	2.8	155
30	Efficient separation of oxidized cello-oligosaccharides generated by cellulose degrading lytic polysaccharide monooxygenases. <i>Journal of Chromatography A</i> , 2013, 1271, 144-152.	3.7	151
31	The <i>Vibrio cholerae</i> Colonization Factor GbpA Possesses a Modular Structure that Governs Binding to Different Host Surfaces. <i>PLoS Pathogens</i> , 2012, 8, e1002373.	4.7	150
32	Towards new enzymes for biofuels: lessons from chitinase research. <i>Trends in Biotechnology</i> , 2008, 26, 228-235.	9.3	146
33	The impact of hydrogen peroxide supply on LPMO activity and overall saccharification efficiency of a commercial cellulase cocktail. <i>Biotechnology for Biofuels</i> , 2018, 11, 209.	6.2	146
34	Lytic Polysaccharide Monooxygenases in Enzymatic Processing of Lignocellulosic Biomass. <i>ACS Catalysis</i> , 2019, 9, 4970-4991.	11.2	145
35	Enzymatic hydrolysis of Atlantic cod ( <i>Gadus morhua</i> L.) viscera. <i>Process Biochemistry</i> , 2005, 40, 1957-1966.	3.7	143
36	Aromatic Residues in the Catalytic Center of Chitinase A from <i>Serratia marcescens</i> Affect Processivity, Enzyme Activity, and Biomass Converting Efficiency. <i>Journal of Biological Chemistry</i> , 2009, 284, 10610-10617.	3.4	142

#	ARTICLE	IF	CITATIONS
37	Kinetics of H <sub>2</sub> O <sub>2</sub> -driven degradation of chitin by a bacterial lytic polysaccharide monooxygenase. <i>Journal of Biological Chemistry</i> , 2018, 293, 523-531.	3.4	130
38	Characterization of the Chitinolytic Machinery of <i>Enterococcus faecalis</i> V583 and High-Resolution Structure of Its Oxidative CBM33 Enzyme. <i>Journal of Molecular Biology</i> , 2012, 416, 239-254.	4.2	128
39	Effect of different steam explosion conditions on methane potential and enzymatic saccharification of birch. <i>Bioresource Technology</i> , 2013, 127, 343-349.	9.6	128
40	Interactions of a fungal lytic polysaccharide monooxygenase with $\beta$ -glucan substrates and cellobiose dehydrogenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5922-5927.	7.1	126
41	Construction of vectors for inducible gene expression in <i>Lactobacillus sakei</i> and <i>L. plantarum</i> . <i>FEMS Microbiology Letters</i> , 2003, 229, 119-126.	1.8	125
42	Comparative Study of Two Chitin-Active and Two Cellulose-Active AA10-Type Lytic Polysaccharide Monooxygenases. <i>Biochemistry</i> , 2014, 53, 1647-1656.	2.5	124
43	On the functional characterization of lytic polysaccharide monooxygenases (LPMOs). <i>Biotechnology for Biofuels</i> , 2019, 12, 58.	6.2	119
44	Polysaccharide degradation by the Bacteroidetes: mechanisms and nomenclature. <i>Environmental Microbiology Reports</i> , 2021, 13, 559-581.	2.4	119
45	Selection of mutations for increased protein stability. <i>Current Opinion in Biotechnology</i> , 2002, 13, 333-337.	6.6	116
46	Enzymatic processing of lignocellulosic biomass: principles, recent advances and perspectives. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2020, 47, 623-657.	3.0	109
47	Polysaccharide degradation by lytic polysaccharide monooxygenases. <i>Current Opinion in Structural Biology</i> , 2019, 59, 54-64.	5.7	105
48	Structural and Functional Analysis of a Lytic Polysaccharide Monooxygenase Important for Efficient Utilization of Chitin in <i>Vibrio japonicus</i> . <i>Journal of Biological Chemistry</i> , 2016, 291, 7300-7312.	3.4	103
49	The carbohydrate-binding module and linker of a modular lytic polysaccharide monooxygenase promote localized cellulose oxidation. <i>Journal of Biological Chemistry</i> , 2018, 293, 13006-13015.	3.4	100
50	Structural and Electronic Snapshots during the Transition from a Cu(II) to Cu(I) Metal Center of a Lytic Polysaccharide Monooxygenase by X-ray Photoreduction. <i>Journal of Biological Chemistry</i> , 2014, 289, 18782-18792.	3.4	99
51	A Lytic Polysaccharide Monooxygenase with Broad Xyloglucan Specificity from the Brown-Rot Fungus <i>Gloeophyllum trabeum</i> and Its Action on Cellulose-Xyloglucan Complexes. <i>Applied and Environmental Microbiology</i> , 2016, 82, 6557-6572.	3.1	97
52	Biogas production from the brown seaweed <i>Saccharina latissima</i> : thermal pretreatment and codigestion with wheat straw. <i>Journal of Applied Phycology</i> , 2012, 24, 1295-1301.	2.8	96
53	Methylation of the N-terminal histidine protects a lytic polysaccharide monooxygenase from auto-oxidative inactivation. <i>Protein Science</i> , 2018, 27, 1636-1650.	7.6	91
54	Simultaneous analysis of C1 and C4 oxidized oligosaccharides, the products of lytic polysaccharide monooxygenases acting on cellulose. <i>Journal of Chromatography A</i> , 2016, 1445, 46-54.	3.7	90

#	ARTICLE	IF	CITATIONS
55	Molecular mechanism of the chitinolytic peroxygenase reaction. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1504-1513.	7.1	90
56	Hallmarks of Processivity in Glycoside Hydrolases from Crystallographic and Computational Studies of the <i>Serratia marcescens</i> Chitinases. Journal of Biological Chemistry, 2012, 287, 36322-36330.	3.4	89
57	Structural determinants of bacterial lytic polysaccharide monoxygenase functionality. Journal of Biological Chemistry, 2018, 293, 1397-1412.	3.4	89
58	Recycling of biogas digestates in plant production: NPK fertilizer value and risk of leaching. International Journal of Recycling of Organic Waste in Agriculture, 2018, 7, 49-58.	2.0	88
59	Synergistic effects of anaerobic co-digestion of whey, manure and fish ensilage. Bioresource Technology, 2018, 249, 35-41.	9.6	86
60	Plantaricin A Is an Amphiphilic $\alpha$ -Helical Bacteriocin-like Pheromone Which Exerts Antimicrobial and Pheromone Activities through Different Mechanisms. Biochemistry, 1998, 37, 16026-16032.	2.5	83
61	Characterization of a chitinase gene ( <i>chiA</i> ) from <i>Serratia marcescens</i> BJL200 and one-step purification of the gene product. FEMS Microbiology Letters, 1994, 124, 399-404.	1.8	82
62	Mutational Effects on Transglycosylating Activity of Family 18 Chitinases and Construction of a Hypertransglycosylating Mutant. Biochemistry, 2011, 50, 5693-5703.	2.5	82
63	Measuring Processivity. Methods in Enzymology, 2012, 510, 69-95.	1.0	80
64	<i>Serratia marcescens</i> Chitinases with Tunnel-Shaped Substrate-Binding Grooves Show Endo Activity and Different Degrees of Processivity during Enzymatic Hydrolysis of Chitosan. Biochemistry, 2006, 45, 9566-9574.	2.5	78
65	Multipoint Precision Binding of Substrate Protects Lytic Polysaccharide Monoxygenases from Self-Destructive Off-Pathway Processes. Biochemistry, 2018, 57, 4114-4124.	2.5	78
66	Hydrolysis of Brewers' Spent Grain by Carbohydrate Degrading Enzymes. Journal of the Institute of Brewing, 2008, 114, 306-314.	2.3	76
67	Activation of bacterial lytic polysaccharide monoxygenases with cellobiose dehydrogenase. Protein Science, 2016, 25, 2175-2186.	7.6	75
68	Hydrolysates from Atlantic cod ( <i>Gadus morhua</i> L.) viscera as components of microbial growth media. Process Biochemistry, 2005, 40, 3714-3722.	3.7	73
69	A polysaccharide utilization locus from <i>Flavobacterium johnsoniae</i> enables conversion of recalcitrant chitin. Biotechnology for Biofuels, 2016, 9, 260.	6.2	70
70	Comparative studies of immunity proteins of pediocin-like bacteriocins. Microbiology (United Kingdom), 2018, 162, 1011-1020.	1.8	69
71	A small lytic polysaccharide monoxygenase from <i>Streptomyces griseus</i> targeting $\alpha$ - and $\beta$ -chitin. FEBS Journal, 2015, 282, 1065-1079.	4.7	69
72	How a Lytic Polysaccharide Monoxygenase Binds Crystalline Chitin. Biochemistry, 2018, 57, 1893-1906.	2.5	68

#	ARTICLE	IF	CITATIONS
73	Expression of endoglucanases in <i>Pichia pastoris</i> under control of the GAP promoter. <i>Microbial Cell Factories</i> , 2014, 13, 57.	4.0	63
74	Genomic comparison of chitinolytic enzyme systems from terrestrial and aquatic bacteria. <i>Environmental Microbiology</i> , 2016, 18, 38-49.	3.8	63
75	Kinetic insights into the peroxygenase activity of cellulose-active lytic polysaccharide monoxygenases (LPMOs). <i>Nature Communications</i> , 2020, 11, 5786.	12.8	63
76	Controlled depolymerization of cellulose by light-driven lytic polysaccharide oxygenases. <i>Nature Communications</i> , 2020, 11, 890.	12.8	63
77	The Pyrroloquinoline-Quinone-Dependent Pyranose Dehydrogenase from <i>Coprinopsis cinerea</i> Drives Lytic Polysaccharide Monoxygenase Action. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	62
78	pH-Dependent Relationship between Catalytic Activity and Hydrogen Peroxide Production Shown via Characterization of a Lytic Polysaccharide Monoxygenase from <i>Gloeophyllum trabeum</i> . <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	62
79	Unraveling the roles of the reductant and free copper ions in LPMO kinetics. <i>Biotechnology for Biofuels</i> , 2021, 14, 28.	6.2	62
80	Kinetic insights into the role of the reductant in H <sub>2</sub> O <sub>2</sub> -driven degradation of chitin by a bacterial lytic polysaccharide monoxygenase. <i>Journal of Biological Chemistry</i> , 2019, 294, 1516-1528.	3.4	60
81	Development of minimal enzyme cocktails for hydrolysis of sulfite-pulped lignocellulosic biomass. <i>Journal of Biotechnology</i> , 2017, 246, 16-23.	3.8	59
82	Comparison of three seemingly similar lytic polysaccharide monoxygenases from <i>Neurospora crassa</i> suggests different roles in plant biomass degradation. <i>Journal of Biological Chemistry</i> , 2019, 294, 15068-15081.	3.4	59
83	Functional analysis of promoters involved in quorum sensing-based regulation of bacteriocin production in <i>Lactobacillus</i> . <i>Molecular Microbiology</i> , 2002, 37, 619-628.	2.5	58
84	The cyclic dipeptide Cl-4 [cyclo-(l-Arg-d-Pro)] inhibits family 18 chitinases by structural mimicry of a reaction intermediate. <i>Biochemical Journal</i> , 2002, 368, 23-27.	3.7	57
85	Structure and function of a broad-specificity chitin deacetylase from <i>Aspergillus nidulans</i> FGSC A4. <i>Scientific Reports</i> , 2017, 7, 1746.	3.3	57
86	The lytic polysaccharide monoxygenase CbpD promotes <i>Pseudomonas aeruginosa</i> virulence in systemic infection. <i>Nature Communications</i> , 2021, 12, 1230.	12.8	57
87	Microbial community structure and dynamics during co-digestion of whey permeate and cow manure in continuous stirred tank reactor systems. <i>Bioresource Technology</i> , 2014, 171, 350-359.	9.6	56
88	Enzymatic degradation of sulfite-pulped softwoods and the role of LPMOs. <i>Biotechnology for Biofuels</i> , 2017, 10, 177.	6.2	56
89	Outer membrane vesicles from <i>Fibrobacter succinogenes</i> S85 contain an array of carbohydrate-active enzymes with versatile polysaccharide-degrading capacity. <i>Environmental Microbiology</i> , 2017, 19, 2701-2714.	3.8	55
90	Specific Xylan Activity Revealed for AA9 Lytic Polysaccharide Monoxygenases of the Thermophilic Fungus <i>Malbranchea cinnamomea</i> by Functional Characterization. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	54

#	ARTICLE	IF	CITATIONS
91	Surface Display of N-Terminally Anchored Invasin by <i>Lactobacillus plantarum</i> Activates NF- $\kappa$ B in Monocytes. <i>Applied and Environmental Microbiology</i> , 2012, 78, 5864-5871.	3.1	53
92	Human Chitotriosidase-Catalyzed Hydrolysis of Chitosan. <i>Biochemistry</i> , 2012, 51, 487-495.	2.5	53
93	A new generation of versatile chromogenic substrates for high-throughput analysis of biomass-degrading enzymes. <i>Biotechnology for Biofuels</i> , 2015, 8, 70.	6.2	53
94	Neutron and Atomic Resolution X-ray Structures of a Lytic Polysaccharide Monooxygenase Reveal Copper-Mediated Dioxygen Binding and Evidence for N-Terminal Deprotonation. <i>Biochemistry</i> , 2017, 56, 2529-2532.	2.5	53
95	Heterologous Protein Secretion in <i>Lactobacilli</i> with Modified pSIP Vectors. <i>PLoS ONE</i> , 2014, 9, e91125.	2.5	52
96	Fueling biomass-degrading oxidative enzymes by light-driven water oxidation. <i>Green Chemistry</i> , 2016, 18, 5357-5366.	9.0	52
97	Mode of action of acetylxylan esterases on acetyl glucuronoxylan and acetylated oligosaccharides generated by a GH10 endoxylanase. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 5075-5086.	2.4	51
98	Quantitative comparison of the biomass-degrading enzyme repertoires of five filamentous fungi. <i>Scientific Reports</i> , 2020, 10, 20267.	3.3	51
99	Expression and Characterization of Endochitinase C from <i>Serratia marcescens</i> BJL200 and Its Purification by a One-Step General Chitinase Purification Method. <i>Bioscience, Biotechnology and Biochemistry</i> , 2008, 72, 715-723.	1.3	50
100	Characterization and synergistic action of a tetraâ€œmodular lytic polysaccharide monooxygenase from <i>Bacillus cereus</i> . <i>FEBS Letters</i> , 2018, 592, 2562-2571.	2.8	48
101	Comparative Assessment of Enzymatic Hydrolysis for Valorization of Different Protein-Rich Industrial Byproducts. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 9738-9749.	5.2	48
102	Laccase-Catalyzed Oxidation of Lignin Induces Production of H <sub>2</sub> O <sub>2</sub> . <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 831-841.	6.7	48
103	Polysaccharide oxidation by lytic polysaccharide monooxygenase is enhanced by engineered cellobiose dehydrogenase. <i>FEBS Journal</i> , 2020, 287, 897-908.	4.7	47
104	<i>Fg</i> LPMO9A from <i>Fusarium graminearum</i> cleaves xyloglucan independently of the backbone substitution pattern. <i>FEBS Letters</i> , 2016, 590, 3346-3356.	2.8	44
105	Natural substrate assay for chitinases using high-performance liquid chromatography: A comparison with existing assays. <i>Analytical Biochemistry</i> , 2007, 363, 128-134.	2.4	43
106	The chitinolytic system of <i>Lactococcus lactis</i> ssp. <i>lactis</i> comprises a nonprocessive chitinase and a chitin-binding protein that promotes the degradation of $\beta$ - and $\beta$ -chitin. <i>FEBS Journal</i> , 2009, 276, 2402-2415.	4.7	42
107	Conversion of $\beta$ -Chitin Substrates with Varying Particle Size and Crystallinity Reveals Substrate Preferences of the Chitinases and Lytic Polysaccharide Monooxygenase of <i>Serratia marcescens</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 11061-11066.	5.2	42
108	Mechanistic basis of substrateâ€œO <sub>2</sub> coupling within a chitin-active lytic polysaccharide monooxygenase: An integrated NMR/EPR study. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 19178-19189.	7.1	42

#	ARTICLE	IF	CITATIONS
109	Plasmid p256 from <i>Lactobacillus plantarum</i> represents a new type of replicon in lactic acid bacteria, and contains a toxin-antitoxin-like plasmid maintenance system. <i>Microbiology (United Kingdom)</i> , 2005, 151, 421-431.	1.8	40
110	Omics-based interpretation of synergism in a soil-derived cellulose-degrading microbial community. <i>Scientific Reports</i> , 2014, 4, 5288.	3.3	39
111	Inhibition of a family 18 chitinase by chito-oligosaccharides. <i>Carbohydrate Polymers</i> , 2008, 74, 41-49.	10.2	38
112	Development of enzyme cocktails for complete saccharification of chitin using mono-component enzymes from <i>Serratia marcescens</i> . <i>Process Biochemistry</i> , 2017, 56, 132-138.	3.7	38
113	Discovery of a Thermostable GH10 Xylanase with Broad Substrate Specificity from the Arctic Mid-Ocean Ridge Vent System. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	38
114	Microbial Protein Produced from Brown Seaweed and Spruce Wood as a Feed Ingredient. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 8328-8335.	5.2	37
115	Identification of a High-Affinity-Binding Oligosaccharide by (+) Nanoelectrospray Quadrupole Time-of-Flight Tandem Mass Spectrometry of a Noncovalent Enzyme-Ligand Complex. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2429-2434.	13.8	36
116	Determination of substrate binding energies in individual subsites of a family 18 chitinase. <i>FEBS Letters</i> , 2010, 584, 4581-4585.	2.8	36
117	Functional characterization of a lytic polysaccharide monoxygenase from the thermophilic fungus <i>Myceliophthora thermophila</i> . <i>PLoS ONE</i> , 2018, 13, e0202148.	2.5	36
118	The Metaproteomics Initiative: a coordinated approach for propelling the functional characterization of microbiomes. <i>Microbiome</i> , 2021, 9, 243.	11.1	36
119	Antifungal activity of well-defined chito-oligosaccharide preparations against medically relevant yeasts. <i>PLoS ONE</i> , 2019, 14, e0210208.	2.5	35
120	Proteomic insights into mannan degradation and protein secretion by the forest floor bacterium <i>Chitinophaga pinensis</i> . <i>Journal of Proteomics</i> , 2017, 156, 63-74.	2.4	34
121	Immunogenic Properties of <i>Lactobacillus plantarum</i> Producing Surface-Displayed <i>Mycobacterium tuberculosis</i> Antigens. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	34
122	Demonstration of scale enzymatic saccharification of sulfite-pulped spruce with addition of hydrogen peroxide for LPMO activation. <i>Biofuels, Bioproducts and Biorefining</i> , 2020, 14, 734-745.	3.7	34
123	Structure and function of a CE4 deacetylase isolated from a marine environment. <i>PLoS ONE</i> , 2017, 12, e0187544.	2.5	34
124	Systems analysis of the glycoside hydrolase family 18 enzymes from <i>Cellvibrio japonicus</i> characterizes essential chitin degradation functions. <i>Journal of Biological Chemistry</i> , 2018, 293, 3849-3859.	3.4	33
125	Signatures of activation parameters reveal substrate-dependent rate determining steps in polysaccharide turnover by a family 18 chitinase. <i>Carbohydrate Polymers</i> , 2010, 81, 14-20.	10.2	32
126	Thermodynamic Analysis of Allosamidin Binding to a Family 18 Chitinase. <i>Biochemistry</i> , 2007, 46, 12347-12354.	2.5	31



#	ARTICLE	IF	CITATIONS
127	Heterologous expression of a recombinant lactobacillar $\beta$ -galactosidase in <i>Lactobacillus plantarum</i> : effect of different parameters on the sakacin P-based expression system. <i>Microbial Cell Factories</i> , 2015, 14, 30.	4.0	31
128	Structural and functional characterization of a small chitinase active lytic polysaccharide monoxygenase domain of a multi-domain modular chitinase from <i>Jonesia denitrificans</i> . <i>FEBS Letters</i> , 2016, 590, 34-42.	2.8	31
129	Production, Characterization, and Application of an Alginate Lyase, AMOR_PL7A, from Hot Vents in the Arctic Mid-Ocean Ridge. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 2936-2945.	5.2	31
130	Kinetic Characterization of a Putatively Chitin-Active LPMO Reveals a Preference for Soluble Substrates and Absence of Monoxygenase Activity. <i>ACS Catalysis</i> , 2021, 11, 11685-11695.	11.2	31
131	Fast and Specific Peroxygenase Reactions Catalyzed by Fungal Mono-Copper Enzymes. <i>Biochemistry</i> , 2021, 60, 3633-3643.	2.5	31
132	From proteins to polysaccharides: lifestyle and genetic evolution of <i>Coprothermobacter proteolyticus</i> . <i>ISME Journal</i> , 2019, 13, 603-617.	9.8	30
133	Production and characterization of yeasts grown on media composed of spruce-derived sugars and protein hydrolysates from chicken by-products. <i>Microbial Cell Factories</i> , 2020, 19, 19.	4.0	30
134	<i>Lactobacillus plantarum</i> producing a <i>Chlamydia trachomatis</i> antigen induces a specific IgA response after mucosal booster immunization. <i>PLoS ONE</i> , 2017, 12, e0176401.	2.5	30
135	Enhanced in situ H <sub>2</sub> O <sub>2</sub> production explains synergy between an LPMO with a cellulose-binding domain and a single-domain LPMO. <i>Scientific Reports</i> , 2022, 12, 6129.	3.3	30
136	The impact of reductants on the catalytic efficiency of a lytic polysaccharide monoxygenase and the special role of dehydroascorbic acid. <i>FEBS Letters</i> , 2022, 596, 53-70.	2.8	29
137	The Roles of Three <i>Serratia marcescens</i> Chitinases in Chitin Conversion Are Reflected in Different Thermodynamic Signatures of Allosamidin Binding. <i>Journal of Physical Chemistry B</i> , 2010, 114, 6144-6149.	2.6	28
138	Microbial community structure in a biogas digester utilizing the marine energy crop <i>Saccharina latissima</i> . <i>3 Biotech</i> , 2013, 3, 407-414.	2.2	28
139	Proteomic investigation of the secretome of <i>Cellvibrio japonicus</i> during growth on chitin. <i>Proteomics</i> , 2016, 16, 1904-1914.	2.2	28
140	Display of a $\beta$ -mannanase and a chitosanase on the cell surface of <i>Lactobacillus plantarum</i> towards the development of whole-cell biocatalysts. <i>Microbial Cell Factories</i> , 2016, 15, 169.	4.0	28
141	Genomic, proteomic and biochemical analysis of the chitinolytic machinery of <i>Serratia marcescens</i> BJL200. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 414-421.	2.3	28
142	Structural and functional characterization of a putative polysaccharide deacetylase of the human parasite <i>Encephalitozoon cuniculi</i> . <i>Protein Science</i> , 2009, 18, 1197-1209.	7.6	27
143	Glycan processing in gut microbiomes. <i>Current Opinion in Microbiology</i> , 2022, 67, 102143.	5.1	27
144	<i>Lactobacillus plantarum</i> displaying CCL3 chemokine in fusion with HIV-1 Gag derived antigen causes increased recruitment of T cells. <i>Microbial Cell Factories</i> , 2015, 14, 169.	4.0	26

#	ARTICLE	IF	CITATIONS
145	Engineering chitinolytic activity into a cellulose-active lytic polysaccharide monooxygenase provides insights into substrate specificity. <i>Journal of Biological Chemistry</i> , 2019, 294, 19349-19364.	3.4	26
146	Metaproteomics: Sample Preparation and Methodological Considerations. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1073, 187-215.	1.6	26
147	Spruce sugars and poultry hydrolysate as growth medium in repeated fed-batch fermentation processes for production of yeast biomass. <i>Bioprocess and Biosystems Engineering</i> , 2020, 43, 723-736.	3.4	26
148	Characterization of two family AA9 LPMOs from <i>Aspergillus tamaris</i> with distinct activities on xyloglucan reveals structural differences linked to cleavage specificity. <i>PLoS ONE</i> , 2020, 15, e0235642.	2.5	26
149	A trimodular bacterial enzyme combining hydrolytic activity with oxidative glycosidic bond cleavage efficiently degrades chitin. <i>Journal of Biological Chemistry</i> , 2020, 295, 9134-9146.	3.4	26
150	Directed evolution of a <i>Bacillus</i> chitinase. <i>Biotechnology Journal</i> , 2009, 4, 501-509.	3.5	25
151	Key Residues Affecting Transglycosylation Activity in Family 18 Chitinases: Insights into Donor and Acceptor Subsites. <i>Biochemistry</i> , 2018, 57, 4325-4337.	2.5	25
152	The liquid fraction from hydrothermal pretreatment of wheat straw provides lytic polysaccharide monooxygenases with both electrons and H <sub>2</sub> O <sub>2</sub> co-substrate. <i>Biotechnology for Biofuels</i> , 2019, 12, 235.	6.2	25
153	An endo- $\beta$ -N-acetylglucosaminidase from <i>Enterococcus faecalis</i> V583 responsible for the hydrolysis of high-mannose and hybrid-type N-linked glycans. <i>FEMS Microbiology Letters</i> , 2011, 325, 123-129.	1.8	24
154	Surface display of an anti-DEC-205 single chain Fv fragment in <i>Lactobacillus plantarum</i> increases internalization and plasmid transfer to dendritic cells in vitro and in vivo. <i>Microbial Cell Factories</i> , 2015, 14, 95.	4.0	24
155	Can we make Chitosan by Enzymatic Deacetylation of Chitin?. <i>Molecules</i> , 2019, 24, 3862.	3.8	24
156	Proteomic Investigation of the Response of <i>Enterococcus faecalis</i> V583 when Cultivated in Urine. <i>PLoS ONE</i> , 2015, 10, e0126694.	2.5	23
157	Aromatic-Mediated Carbohydrate Recognition in Processive <i>Serratia marcescens</i> Chitinases. <i>Journal of Physical Chemistry B</i> , 2016, 120, 1236-1249.	2.6	23
158	A novel proteomics sample preparation method for secretome analysis of <i>Hypocrea jecorina</i> growing on insoluble substrates. <i>Journal of Proteomics</i> , 2016, 131, 104-112.	2.4	23
159	Analyzing Activities of Lytic Polysaccharide Monooxygenases by Liquid Chromatography and Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2017, 1588, 71-92.	0.9	23
160	Discovery and characterization of a thermostable two-domain GH6 endoglucanase from a compost metagenome. <i>PLoS ONE</i> , 2018, 13, e0197862.	2.5	23
161	Fungal PQQ-dependent dehydrogenases and their potential in biocatalysis. <i>Current Opinion in Chemical Biology</i> , 2019, 49, 113-121.	6.1	22
162	Comparison of Six Lytic Polysaccharide Monooxygenases from <i>Thermothielavioides terrestris</i> Shows That Functional Variation Underlies the Multiplicity of LPMO Genes in Filamentous Fungi. <i>Applied and Environmental Microbiology</i> , 2022, 88, aem0009622.	3.1	22

#	ARTICLE	IF	CITATIONS
163	Substrate positioning in chitinase A, a processive chito-biohydrolase from <i>Serratia marcescens</i> . <i>FEBS Letters</i> , 2011, 585, 2339-2344.	2.8	21
164	Analysis of productive binding modes in the human chitotriosidase. <i>FEBS Letters</i> , 2013, 587, 3508-3513.	2.8	21
165	The effect of the carbohydrate binding module on substrate degradation by the human chitotriosidase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 1494-1501.	2.3	21
166	Identification and characterization of a hyperthermophilic GH9 cellulase from the Arctic Mid-Ocean Ridge vent field. <i>PLoS ONE</i> , 2019, 14, e0222216.	2.5	21
167	The effect of changing the hydrophobic S1â€™ subsite of thermolysin-like proteases on substrate specificity. <i>FEBS Journal</i> , 2001, 268, 4985-4991.	0.2	20
168	Thermodynamics of tunnel formation upon substrate binding in a processive glycoside hydrolase. <i>Archives of Biochemistry and Biophysics</i> , 2017, 620, 35-42.	3.0	20
169	A thermostable bacterial lytic polysaccharide monooxygenase with high operational stability in a wide temperature range. <i>Biotechnology for Biofuels</i> , 2020, 13, 194.	6.2	20
170	In situ measurements of oxidationâ€™reduction potential and hydrogen peroxide concentration as tools for revealing LPMO inactivation during enzymatic saccharification of cellulose. <i>Biotechnology for Biofuels</i> , 2021, 14, 46.	6.2	20
171	Analytical Tools for Characterizing Cellulose-Active Lytic Polysaccharide Monooxygenases (LPMOs). <i>Methods in Molecular Biology</i> , 2018, 1796, 219-246.	0.9	19
172	Processivity and substrate-binding in family 18 chitinases. <i>Biocatalysis and Biotransformation</i> , 2012, 30, 353-365.	2.0	18
173	On the Determination of Water Content in Biomass Processing. <i>Bioenergy Research</i> , 2014, 7, 442-449.	3.9	18
174	Treatment of recalcitrant crystalline polysaccharides with lytic polysaccharide monooxygenase relieves the need for glycoside hydrolase processivity. <i>Carbohydrate Research</i> , 2019, 473, 66-71.	2.3	18
175	Inactivated <i>Lactobacillus plantarum</i> Carrying a Surface-Displayed Ag85B-ESAT-6 Fusion Antigen as a Booster Vaccine Against <i>Mycobacterium tuberculosis</i> Infection. <i>Frontiers in Immunology</i> , 2019, 10, 1588.	4.8	17
176	Oxidation-reduction potential (ORP) as a tool for process monitoring of H <sub>2</sub> O <sub>2</sub> /LPMO assisted enzymatic hydrolysis of cellulose. <i>Process Biochemistry</i> , 2019, 86, 89-97.	3.7	17
177	Alginate Degradation: Insights Obtained through Characterization of a Thermophilic Exolytic Alginate Lyase. <i>Applied and Environmental Microbiology</i> , 2021, 87, .	3.1	17
178	Sugar oxidoreductases and LPMOs â€™ two sides of the same polysaccharide degradation story?. <i>Carbohydrate Research</i> , 2021, 505, 108350.	2.3	17
179	Electrostatic interactions across the dimer-dimer interface contribute to the pH-dependent stability of a tetrameric malate dehydrogenase. <i>FEBS Letters</i> , 2003, 553, 423-426.	2.8	16
180	Transcriptional analysis of bacteriocin production by malt isolate <i>Lactobacillus sakei</i> 5. <i>FEMS Microbiology Letters</i> , 2004, 235, 377-384.	1.8	16

#	ARTICLE	IF	CITATIONS
181	Structural and functional variation of chitin-binding domains of a lytic polysaccharide monoxygenase from <i>Cellvibrio japonicus</i> . <i>Journal of Biological Chemistry</i> , 2021, 297, 101084.	3.4	16
182	Comparison of eight <i>Lactobacillus</i> species for delivery of surface-displayed mycobacterial antigen. <i>Vaccine</i> , 2019, 37, 6371-6379.	3.8	15
183	Quantifying Oxidation of Cellulose-Associated Glucuronoxylan by Two Lytic Polysaccharide Monoxygenases from <i>Neurospora crassa</i> . <i>Applied and Environmental Microbiology</i> , 2021, 87, e0165221.	3.1	15
184	Tailoring Hydrothermal Vent Biodiversity Toward Improved Biodiscovery Using a Novel in situ Enrichment Strategy. <i>Frontiers in Microbiology</i> , 2020, 11, 249.	3.5	14
185	Impact of down-stream processing on functional properties of yeasts and the implications on gut health of Atlantic salmon ( <i>Salmo salar</i> ). <i>Scientific Reports</i> , 2021, 11, 4496.	3.3	14
186	<sup>1</sup> H, <sup>13</sup> C, <sup>15</sup> N resonance assignment of the chitin-active lytic polysaccharide monoxygenase BILPMO10A from <i>Bacillus licheniformis</i> . <i>Biomolecular NMR Assignments</i> , 2015, 9, 207-210.	0.8	13
187	Antibiotic saving effect of combination therapy through synergistic interactions between well-characterized chito-oligosaccharides and commercial antifungals against medically relevant yeasts. <i>PLoS ONE</i> , 2019, 14, e0227098.	2.5	13
188	Analysis of Four Chitin-Active Lytic Polysaccharide Monoxygenases from <i>Streptomyces griseus</i> Reveals Functional Variation. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 13641-13650.	5.2	13
189	Engineering lytic polysaccharide monoxygenases (LPMOs). <i>Methods in Enzymology</i> , 2020, 644, 1-34.	1.0	12
190	Synthesis of glycoconjugates utilizing the regioselectivity of a lytic polysaccharide monoxygenase. <i>Scientific Reports</i> , 2020, 10, 13197.	3.3	12
191	Dissecting factors that contribute to ligand-binding energetics for family 18 chitinases. <i>Thermochimica Acta</i> , 2010, 511, 189-193.	2.7	11
192	Challenges and opportunities in mimicking non-enzymatic brown-rot decay mechanisms for pretreatment of Norway spruce. <i>Wood Science and Technology</i> , 2019, 53, 291-311.	3.2	11
193	Anchoring of heterologous proteins in multiple <i>Lactobacillus</i> species using anchors derived from <i>Lactobacillus plantarum</i> . <i>Scientific Reports</i> , 2020, 10, 9640.	3.3	11
194	The use of lytic polysaccharide monoxygenases in anaerobic digestion of lignocellulosic materials. <i>Biotechnology for Biofuels</i> , 2019, 12, 270.	6.2	10
195	Using chitosan to understand chitinases and the role of processivity in the degradation of recalcitrant polysaccharides. <i>Reactive and Functional Polymers</i> , 2020, 148, 104488.	4.1	10
196	Changes in the composition of the main polysaccharide groups of oil seed rape straw following steam explosion and saccharification. <i>Biomass and Bioenergy</i> , 2014, 61, 121-130.	5.7	9
197	Chemoenzymatic Synthesis of Chito-oligosaccharides with Alternating <i>N</i> -Acetylglucosamine and <i>D</i> -Glucosamine. <i>Biochemistry</i> , 2020, 59, 4581-4590.	2.5	9
198	Structural insights of the enzymes from the chitin utilization locus of <i>Flavobacterium johnsoniae</i> . <i>Scientific Reports</i> , 2020, 10, 13775.	3.3	9

#	ARTICLE	IF	CITATIONS
199	Neutron and high-resolution room-temperature X-ray data collection from crystallized lytic polysaccharide monooxygenase. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015, 71, 1448-1452.	0.8	8
200	Backbone and side-chain <sup>1</sup> H, <sup>13</sup> C, and <sup>15</sup> N chemical shift assignments for the apo-form of the lytic polysaccharide monooxygenase NcLPMO9C. <i>Biomolecular NMR Assignments</i> , 2016, 10, 277-280.	0.8	8
201	Chemical shift assignments for the apo-form of the catalytic domain, the linker region, and the carbohydrate-binding domain of the cellulose-active lytic polysaccharide monooxygenase ScLPMO10C. <i>Biomolecular NMR Assignments</i> , 2017, 11, 257-264.	0.8	7
202	Structural and Thermodynamic Signatures of Ligand Binding to the Enigmatic Chitinase D of <i>Serratia proteamaculans</i> . <i>Journal of Physical Chemistry B</i> , 2019, 123, 2270-2279.	2.6	7
203	Fungal Lytic Polysaccharide Monooxygenases (LPMOs): Biological Importance and Applications. , 2021, , 281-294.		7
204	Chromatographic analysis of oxidized cello-oligomers generated by lytic polysaccharide monooxygenases using dual electrolytic eluent generation. <i>Journal of Chromatography A</i> , 2022, 1662, 462691.	3.7	7
205	2-Naphthol Impregnation Prior to Steam Explosion Promotes LPMO-Assisted Enzymatic Saccharification of Spruce and Yields High-Purity Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 5233-5242.	6.7	7
206	The directionality of processive enzymes acting on recalcitrant polysaccharides is reflected in the kinetic signatures of oligomer degradation. <i>FEBS Letters</i> , 2015, 589, 1807-1812.	2.8	5
207	Rendering One Autolysis Site in <i>Bacillus Subtilis</i> Neutral Protease Resistant to Cleavage Reveals a New Fission. <i>Biotechnology and Applied Biochemistry</i> , 1998, 27, 125-132.	3.1	5
208	Characterization of a lytic polysaccharide monooxygenase from <i>Aspergillus fumigatus</i> shows functional variation among family AA11 fungal LPMOs. <i>Journal of Biological Chemistry</i> , 2021, 297, 101421.	3.4	5
209	Polar residues lining the binding cleft of a <i>Serratia marcescens</i> family 18 chitinase position the substrate for attack and stabilize associative interactions. <i>Molecular Physics</i> , 2019, 117, 3664-3682.	1.7	4
210	Genomic and Proteomic Study of <i>Andreprevotia ripae</i> Isolated from an Anthill Reveals an Extensive Repertoire of Chitinolytic Enzymes. <i>Journal of Proteome Research</i> , 2021, 20, 4041-4052.	3.7	3
211	The Role of Lytic Polysaccharide Monooxygenases in Wood Rotting Basidiomycetes. <i>Trends in Glycoscience and Glycotechnology</i> , 2020, 32, E135-E143.	0.1	3
212	Heterologous Protein Production in <i>Lactobacillus (plantarum)</i> Using pSIP Vectors. <i>Methods in Molecular Biology</i> , 2022, 2406, 205-217.	0.9	3
213	Comparison of the Immunogenic Properties of <i>Lactiplantibacillus plantarum</i> Carrying the Mycobacterial Ag85B-ESAT-6 Antigen at Various Cellular Localizations. <i>Frontiers in Microbiology</i> , 2022, 13, .	3.5	3
214	EF0176 and EF0177 from <i>Enterococcus faecalis</i> V583 are substrate-binding lipoproteins involved in ABC transporter mediated ribonucleoside uptake. <i>Microbiology (United Kingdom)</i> , 2015, 161, 754-764.	1.8	2
215	Resonance assignments for the apo-form of the cellulose-active lytic polysaccharide monooxygenase TaLPMO9A. <i>Biomolecular NMR Assignments</i> , 2018, 12, 357-361.	0.8	2
216	<sup>1</sup> H, <sup>13</sup> C, <sup>15</sup> N resonance assignment of the apo form of the small, chitin-active lytic polysaccharide monooxygenase JdLPMO10A from <i>Jonesia denitrificans</i> . <i>Biomolecular NMR Assignments</i> , 2021, 15, 79-84.	0.8	1

#	ARTICLE	IF	CITATIONS
217	Fecal Excretion and Whole-Body Retention of Macro and Micro Minerals in Atlantic Salmon Fed Torula Yeast Grown on Sugar Kelp Hydrolysate. <i>Animals</i> , 2021, 11, 2409.	2.3	1
218	Chromatographic Assays for the Enzymatic Degradation of Chitin. <i>Bio-protocol</i> , 2021, 11, e4014.	0.4	1
219	Thermodynamic insights into the role of aromatic residues in chitooligosaccharide binding to the transglycosylating chitinase-D from <i>Serratia proteamaculans</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020, 1868, 140414.	2.3	0
220	The Role of Lytic Polysaccharide Monooxygenases in Wood Rotting Basidiomycetes. <i>Trends in Glycoscience and Glycotechnology</i> , 2020, 32, J111-J119.	0.1	0