

Anik Vrnai

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.

49 papers	2,528 citations	30 h-index	50 g-index
50 ext. papers	2,993 ext. citations	6.5 avg, IF	5.33 L-index

#	Paper	IF	Citations
49	Comparison of six lytic polysaccharide monooxygenases from shows that functional variation underlies the multiplicity of LPMO genes in filamentous fungi.. <i>Applied and Environmental Microbiology</i> , 2022 , aem0009622	4.8	2
48	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, 101421-101434	5.4	1
47	Quantifying Oxidation of Cellulose-Associated Glucuronoxylan by Two Lytic Polysaccharide Monooxygenases from <i>Neurospora crassa</i> . <i>Applied and Environmental Microbiology</i> , 2021 , 87, e0165221	4.8	4
46	In situ measurements of oxidation-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	7.8	6
45	Fungal Lytic Polysaccharide Monooxygenases (LPMOs): Biological Importance and Applications 2021 , 281-294		6
44	Characterization of an AA9 LPMO from <i>Thielavia australiensis</i> , TausLPMO9B, under industrially relevant lignocellulose saccharification conditions. <i>Biotechnology for Biofuels</i> , 2020 , 13, 195	7.8	16
43	Characterization of two family AA9 LPMOs from <i>Aspergillus tamaraii</i> with distinct activities on xyloglucan reveals structural differences linked to cleavage specificity. <i>PLoS ONE</i> , 2020 , 15, e0235642	3.7	15
42	Heterologous expression of lytic polysaccharide monooxygenases (LPMOs). <i>Biotechnology Advances</i> , 2020 , 43, 107583	17.8	13
41	Demonstration-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	5.3	17
40	The Role of Lytic Polysaccharide Monooxygenases in Wood Rotting Basidiomycetes. <i>Trends in Glycoscience and Glycotechnology</i> , 2020 , 32, J111-J119	0.1	
39	The Role of Lytic Polysaccharide Monooxygenases in Wood Rotting Basidiomycetes. <i>Trends in Glycoscience and Glycotechnology</i> , 2020 , 32, E135-E143	0.1	0
38	Quantitative comparison of the biomass-degrading enzyme repertoires of five filamentous fungi. <i>Scientific Reports</i> , 2020 , 10, 20267	4.9	22
37	Enzymatic processing of lignocellulosic biomass: principles, recent advances and perspectives. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2020 , 47, 623-657	4.2	49
36	In-depth characterization of <i>Trichoderma reesei</i> cellobiohydrolase TrCel7A produced in <i>Nicotiana benthamiana</i> reveals limitations of cellulase production in plants by host-specific post-translational modifications. <i>Plant Biotechnology Journal</i> , 2020 , 18, 631-643	11.6	9
35	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	2.5	7
34	Lytic Polysaccharide Monooxygenases in Enzymatic Processing of Lignocellulosic Biomass. <i>ACS Catalysis</i> , 2019 , 9, 4970-4991	13.1	76
33	On the functional characterization of lytic polysaccharide monooxygenases (LPMOs). <i>Biotechnology for Biofuels</i> , 2019 , 12, 58	7.8	72

32	Comparison of three seemingly similar lytic polysaccharide monooxygenases from suggests different roles in plant biomass degradation. <i>Journal of Biological Chemistry</i> , 2019 , 294, 15068-15081	5.4	33
31	Specific Xylan Activity Revealed for AA9 Lytic Polysaccharide Monooxygenases of the Thermophilic Fungus by Functional Characterization. <i>Applied and Environmental Microbiology</i> , 2019 , 85,	4.8	36
30	pH-Dependent Relationship between Catalytic Activity and Hydrogen Peroxide Production Shown via Characterization of a Lytic Polysaccharide Monooxygenase from. <i>Applied and Environmental Microbiology</i> , 2019 , 85,	4.8	47
29	Fungal PQQ-dependent dehydrogenases and their potential in biocatalysis. <i>Current Opinion in Chemical Biology</i> , 2019 , 49, 113-121	9.7	15
28	The Pyrroloquinoline-Quinone-Dependent Pyranose Dehydrogenase from <i>Coprinopsis cinerea</i> Drives Lytic Polysaccharide Monooxygenase Action. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	47
27	Functional characterization of a lytic polysaccharide monooxygenase from the thermophilic fungus <i>Myceliophthora thermophila</i> . <i>PLoS ONE</i> , 2018 , 13, e0202148	3.7	29
26	Oxidoreductases and Reactive Oxygen Species in Conversion of Lignocellulosic Biomass. <i>Microbiology and Molecular Biology Reviews</i> , 2018 , 82,	13.2	128
25	Methylation of the N-terminal histidine protects a lytic polysaccharide monooxygenase from auto-oxidative inactivation. <i>Protein Science</i> , 2018 , 27, 1636-1650	6.3	60
24	Development of minimal enzyme cocktails for hydrolysis of sulfite-pulped lignocellulosic biomass. <i>Journal of Biotechnology</i> , 2017 , 246, 16-23	3.7	42
23	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	5.2	40
22	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
21	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	4.5	66
20	FgLPMO9A from <i>Fusarium graminearum</i> cleaves xyloglucan independently of the backbone substitution pattern. <i>FEBS Letters</i> , 2016 , 590, 3346-3356	3.8	38
19	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	4.8	76
18	Structural and Functional Characterization of a Lytic Polysaccharide Monooxygenase with Broad Substrate Specificity. <i>Journal of Biological Chemistry</i> , 2015 , 290, 22955-69	5.4	131
17	Harnessing the potential of LPMO-containing cellulase cocktails poses new demands on processing conditions. <i>Biotechnology for Biofuels</i> , 2015 , 8, 187	7.8	141
16	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, 6287-92	11.5	289
15	Effects of enzymatic removal of plant cell wall acylation (acetylation, p-coumaroylation, and feruloylation) on accessibility of cellulose and xylan in natural (non-pretreated) sugar cane fractions. <i>Biotechnology for Biofuels</i> , 2014 , 7, 153	7.8	30

14	Carbohydrate-binding modules of fungal cellulases: occurrence in nature, function, and relevance in industrial biomass conversion. <i>Advances in Applied Microbiology</i> , 2014 , 88, 103-65	4.9	93
13	Expression of endoglucanases in <i>Pichia pastoris</i> under control of the GAP promoter. <i>Microbial Cell Factories</i> , 2014 , 13, 57	6.4	50
12	Cellulases without carbohydrate-binding modules in high consistency ethanol production process. <i>Biotechnology for Biofuels</i> , 2014 , 7, 27	7.8	46
11	Mechanisms of laccase-mediator treatments improving the enzymatic hydrolysis of pre-treated spruce. <i>Biotechnology for Biofuels</i> , 2014 , 7, 177	7.8	40
10	Carbohydrate-binding modules (CBMs) revisited: reduced amount of water counterbalances the need for CBMs. <i>Biotechnology for Biofuels</i> , 2013 , 6, 30	7.8	98
9	The role of carbohydrate binding module (CBM) at high substrate consistency: comparison of <i>Trichoderma reesei</i> and <i>Thermoascus aurantiacus</i> Cel7A (CBHI) and Cel5A (EGII). <i>Bioresource Technology</i> , 2013 , 143, 196-203	11	52
8	Xylan as limiting factor in enzymatic hydrolysis of nanocellulose. <i>Bioresource Technology</i> , 2013 , 129, 135-41	11	68
7	Small-angle scattering study of structural changes in the microfibril network of nanocellulose during enzymatic hydrolysis. <i>Cellulose</i> , 2013 , 20, 1031-1040	5.5	20
6	Enhancement of cellulose hydrolysis in sugarcane bagasse by the selective removal of lignin with sodium chlorite. <i>Applied Energy</i> , 2013 , 102, 399-402	10.7	100
5	Synergistic action of xylanase and mannanase improves the total hydrolysis of softwood. <i>Bioresource Technology</i> , 2011 , 102, 9096-104	11	113
4	Adsorption of monocomponent enzymes in enzyme mixture analyzed quantitatively during hydrolysis of lignocellulose substrates. <i>Bioresource Technology</i> , 2011 , 102, 1220-7	11	75
3	Negative salt effect in an acid-base diode: Simulations and experiments. <i>Journal of Chemical Physics</i> , 2010 , 132, 064902	3.9	9
2	Changes in submicrometer structure of enzymatically hydrolyzed microcrystalline cellulose. <i>Biomacromolecules</i> , 2010 , 11, 1111-7	6.9	46
1	Restriction of the enzymatic hydrolysis of steam-pretreated spruce by lignin and hemicellulose. <i>Enzyme and Microbial Technology</i> , 2010 , 46, 185-193	3.8	139