

# Emma R Master

## List of Publications by Citations

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**Version:** 2024-04-26

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27  
papers

538  
citations

15  
h-index

22  
g-index

28  
ext. papers

641  
ext. citations

5.8  
avg, IF

3.75  
L-index

#	Paper	IF	Citations
27	Pretreatment of pulp mill secondary sludge for high-rate anaerobic conversion to biogas. <i>Bioresource Technology</i> , <b>2009</b> , 100, 5729-35	11	62
26	Proteomic characterization of lignocellulose-degrading enzymes secreted by <i>Phanerochaete carnos</i> a grown on spruce and microcrystalline cellulose. <i>Applied Microbiology and Biotechnology</i> , <b>2010</b> , 86, 1903-14	5.7	43
25	Expression and regulation of genes encoding lignocellulose-degrading activity in the genus <i>Phanerochaete</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2012</b> , 94, 339-51	5.7	39
24	Elucidation of the molecular basis for arabinoxylan-debranching activity of a thermostable family GH62 $\beta$ -arabinofuranosidase from <i>Streptomyces thermoviolaceus</i> . <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 5317-29	4.8	34
23	Xylo- and cello-oligosaccharide oxidation by gluco-oligosaccharide oxidase from <i>Sarocladium strictum</i> and variants with reduced substrate inhibition. <i>Biotechnology for Biofuels</i> , <b>2013</b> , 6, 148	7.8	33
22	Biochemical studies of the multicopper oxidase (small laccase) from <i>Streptomyces coelicolor</i> using bioactive phytochemicals and site-directed mutagenesis. <i>Microbial Biotechnology</i> , <b>2013</b> , 6, 588-97	6.3	31
21	A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans. <i>Biotechnology for Biofuels</i> , <b>2018</b> , 11, 74	7.8	29
20	Constitutive expression of a fungal glucuronoyl esterase in <i>Arabidopsis</i> reveals altered cell wall composition and structure. <i>Plant Biotechnology Journal</i> , <b>2012</b> , 10, 1077-87	11.6	27
19	Advancing lignocellulose bioconversion through direct assessment of enzyme action on insoluble substrates. <i>Current Opinion in Biotechnology</i> , <b>2014</b> , 27, 123-33	11.4	25
18	Substrate recognition and hydrolysis by a fungal xyloglucan-specific family 12 hydrolase. <i>Carbohydrate Research</i> , <b>2009</b> , 344, 1175-9	2.9	24
17	Biocatalytic Production of Amino Carbohydrates through Oxidoreductase and Transaminase Cascades. <i>ChemSusChem</i> , <b>2019</b> , 12, 848-857	8.3	21
16	Altered substrate specificity of the gluco-oligosaccharide oxidase from <i>Acremonium strictum</i> . <i>Biotechnology and Bioengineering</i> , <b>2011</b> , 108, 2261-9	4.9	18
15	Mode of coniferous wood decay by the white rot fungus <i>Phanerochaete carnos</i> a as elucidated by FTIR and ToF-SIMS. <i>Applied Microbiology and Biotechnology</i> , <b>2012</b> , 94, 1303-11	5.7	16
14	Debranching of soluble wheat arabinoxylan dramatically enhances recalcitrant binding to cellulose. <i>Biotechnology Letters</i> , <b>2015</b> , 37, 633-41	3	15
13	Sequence diversity and gene expression analyses of expansin-related proteins in the white-rot basidiomycete, <i>Phanerochaete carnos</i> a. <i>Fungal Genetics and Biology</i> , <b>2014</b> , 72, 115-123	3.9	15
12	Action of a GH115 $\beta$ glucuronidase from <i>Amphibacillus xylanus</i> at alkaline condition promotes release of 4-O-methylglucopyranosyluronic acid from glucuronoxylan and arabinoglucuronoxylan. <i>Enzyme and Microbial Technology</i> , <b>2017</b> , 104, 22-28	3.8	13
11	Functional comparison of versatile carbohydrate esterases from families CE1, CE6 and CE16 on acetyl-4-O-methylglucuronoxylan and acetyl-galactoglucomannan. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2017</b> , 1861, 2398-2405	4	12

10	Mining bacterial genomes for novel arylesterase activity. <i>Microbial Biotechnology</i> , <b>2010</b> , 3, 677-90	6.3	12
9	Enhanced Polysaccharide Binding and Activity on Linear $\beta$ -Glucans through Addition of Carbohydrate-Binding Modules to Either Terminus of a Glucanase. <i>PLoS ONE</i> , <b>2015</b> , 10, e0125398	3.7	12
8	Enhancement of acetyl xylan esterase activity on cellulose acetate through fusion to a family 3 cellulose binding module. <i>Enzyme and Microbial Technology</i> , <b>2015</b> , 79-80, 27-33	3.8	11
7	Comparative analysis of lignin peroxidase and manganese peroxidase activity on coniferous and deciduous wood using ToF-SIMS. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 8013-20	5.7	11
6	Influence of a family 29 carbohydrate binding module on the activity of galactose oxidase from <i>Fusarium graminearum</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2016</b> , 1860, 354-62	4	8
5	<i>Pichia pastoris</i> is a Suitable Host for the Heterologous Expression of Predicted Class I and Class II Hydrophobins for Discovery, Study, and Application in Biotechnology. <i>Microorganisms</i> , <b>2018</b> , 6,	4.9	8
4	Dynamics of the <i>Phanerochaete carnosae</i> transcriptome during growth on aspen and spruce. <i>BMC Genomics</i> , <b>2018</b> , 19, 815	4.5	8
3	A family AA5_2 carbohydrate oxidase from <i>Penicillium rubens</i> displays functional overlap across the AA5 family. <i>PLoS ONE</i> , <b>2019</b> , 14, e0216546	3.7	6
2	Atypical lignification in eastern leatherwood ( <i>Dirca palustris</i> ). <i>New Phytologist</i> , <b>2020</b> , 226, 704-713	9.8	5
1	PACER: a novel 3D plant cell wall model for the analysis of non-catalytic and enzymatic responses. <b>2022</b> , 15, 30		0