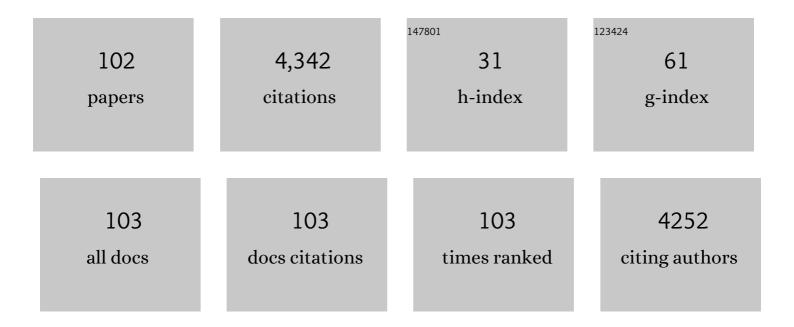
## Miia R Mäkelä

List of Publications by Year in descending order

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Μιιλ Ρ.ΜΔάσει Δα

#	Article	IF	CITATIONS
1	Organic residues from agricultural and forest companies in Brazil as useful substrates for cultivation of the edible mushroom <i>Pleurotus ostreatus</i> . Letters in Applied Microbiology, 2022, 74, 44-52.	2.2	1
2	Xylitol production from plant biomass by Aspergillus niger through metabolic engineering. Bioresource Technology, 2022, 344, 126199.	9.6	20
3	Fungal glycoside hydrolase family 44 xyloglucanases are restricted to the phylum Basidiomycota and show a distinct xyloglucan cleavage pattern. IScience, 2022, 25, 103666.	4.1	10
4	Detailed analysis of the D-galactose catabolic pathways in Aspergillus niger reveals complexity at both metabolic and regulatory level. Fungal Genetics and Biology, 2022, 159, 103670.	2.1	7
5	GalR, GalX and AraR coâ€regulate <scp>d</scp> â€galactose and <scp>l</scp> â€arabinose utilization in <i>Aspergillus nidulans</i> . Microbial Biotechnology, 2022, 15, 1839-1851.	4.2	4
6	Carbohydrate esterase family 16 contains fungal hemicellulose acetyl esterases (HAEs) with varying specificity. New Biotechnology, 2022, 70, 28-38.	4.4	9
7	Molecular engineering to improve lignocellulosic biomass based applications using filamentous fungi. Advances in Applied Microbiology, 2021, 114, 73-109.	2.4	8
8	Applications of Fungal Cellulases. , 2021, , 295-304.		0
9	Fungal Lignin-Modifying Peroxidases and H2O2-Producing Enzymes. , 2021, , 247-259.		11
10	Discovery and Functional Analysis of a Salicylic Acid Hydroxylase from Aspergillus niger. Applied and Environmental Microbiology, 2021, 87, .	3.1	17
11	Re-routing of Sugar Catabolism Provides a Better Insight Into Fungal Flexibility in Using Plant Biomass-Derived Monomers as Substrates. Frontiers in Bioengineering and Biotechnology, 2021, 9, 644216.	4.1	4
12	Revisiting a â€~̃simple' fungal metabolic pathway reveals redundancy, complexity and diversity. Microbial Biotechnology, 2021, 14, 2525-2537.	4.2	10
13	Characterization of d-xylose reductase, XyrB, from Aspergillus niger. Biotechnology Reports (Amsterdam, Netherlands), 2021, 30, e00610.	4.4	5
14	Depolymerization of biorefinery lignin by improved laccases of the whiteâ€rot fungus <i>Obba rivulosa</i> . Microbial Biotechnology, 2021, 14, 2140-2151.	4.2	6
15	The Cultivation Method Affects the Transcriptomic Response of Aspergillus niger to Growth on Sugar Beet Pulp. Microbiology Spectrum, 2021, 9, e0106421.	3.0	6
16	CreA-mediated repression of gene expression occurs at low monosaccharide levels during fungal plant biomass conversion in a time and substrate dependent manner. Cell Surface, 2021, 7, 100050.	3.0	16
17	Application of CRISPR/Cas9 Tools for Genome Editing in the White-Rot Fungus Dichomitus squalens. Biomolecules, 2021, 11, 1526.	4.0	9
18	Production of Recombinant Laccase From Coprinopsis cinerea and Its Effect in Mediator Promoted Lignin Oxidation at Neutral pH. Frontiers in Bioengineering and Biotechnology, 2021, 9, 767139.	4.1	8

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19	Recombinant production and characterization of six novel GH27 and GH36 α-galactosidases from Penicillium subrubescens and their synergism with a commercial mannanase during the hydrolysis of lignocellulosic biomass. Bioresource Technology, 2020, 295, 122258.	9.6	21
20	Mixtures of aromatic compounds induce ligninolytic gene expression in the wood-rotting fungus Dichomitus squalens. Journal of Biotechnology, 2020, 308, 35-39.	3.8	7
21	Colonies of the fungus Aspergillus niger are highly differentiated to adapt to local carbon source variation. Environmental Microbiology, 2020, 22, 1154-1166.	3.8	15
22	Conserved white-rot enzymatic mechanism for wood decay in the Basidiomycota genus <i>Pycnoporus</i> . DNA Research, 2020, 27, .	3.4	32
23	Fungal Treatment Modifies Kraft Lignin for Lignin- and Cellulose-Based Carbon Fiber Precursors. ACS Omega, 2020, 5, 6130-6140.	3.5	18
24	A comparative genomics study of 23 Aspergillus species from section Flavi. Nature Communications, 2020, 11, 1106.	12.8	125
25	Identification of a gene encoding the last step of the L-rhamnose catabolic pathway in Aspergillus niger revealed the inducer of the pathway regulator. Microbiological Research, 2020, 234, 126426.	5.3	11
26	Genomic and Postgenomic Diversity of Fungal Plant Biomass Degradation Approaches. Trends in Microbiology, 2020, 28, 487-499.	7.7	25
27	Progress and Research Needs of Plant Biomass Degradation by Basidiomycete Fungi. Grand Challenges in Biology and Biotechnology, 2020, , 405-438.	2.4	11
28	Fungal Laccases and Their Potential in Bioremediation Applications. Microbiology Monographs, 2020, , 1-25.	0.6	10
29	Penicillium subrubescens adapts its enzyme production to the composition of plant biomass. Bioresource Technology, 2020, 311, 123477.	9.6	15
30	Engineering of primary carbon metabolism in filamentous fungi. Biotechnology Advances, 2020, 43, 107551.	11.7	28
31	CRISPR/Cas9 facilitates rapid generation of constitutive forms of transcription factors in Aspergillus niger through specific on-site genomic mutations resulting in increased saccharification of plant biomass. Enzyme and Microbial Technology, 2020, 136, 109508.	3.2	29
32	Applicability of Recombinant Laccases From the White-Rot Fungus Obba rivulosa for Mediator-Promoted Oxidation of Biorefinery Lignin at Low pH. Frontiers in Bioengineering and Biotechnology, 2020, 8, 604497.	4.1	14
33	The White-Rot Basidiomycete Dichomitus squalens Shows Highly Specific Transcriptional Response to Lignocellulose-Related Aromatic Compounds. Frontiers in Bioengineering and Biotechnology, 2019, 7, 229.	4.1	21
34	Discovery of Novelp-Hydroxybenzoate-m-hydroxylase, Protocatechuate 3,4 Ring-Cleavage Dioxygenase, and Hydroxyquinol 1,2 Ring-Cleavage Dioxygenase from the Filamentous FungusAspergillus niger. ACS Sustainable Chemistry and Engineering, 2019, 7, 19081-19089.	6.7	25
35	A comparison between the homocyclic aromatic metabolic pathways from plant-derived compounds by bacteria and fungi. Biotechnology Advances, 2019, 37, 107396.	11.7	83
36	Draft Genome Sequences of Three Monokaryotic Isolates of the White-Rot Basidiomycete Fungus Dichomitus squalens. Microbiology Resource Announcements, 2019, 8, .	0.6	22

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37	The presence of trace components significantly broadens the molecular response of Aspergillus niger to guar gum. New Biotechnology, 2019, 51, 57-66.	4.4	10
38	Developments and opportunities in fungal strain engineering for the production of novel enzymes and enzyme cocktails for plant biomass degradation. Biotechnology Advances, 2019, 37, 107361.	11.7	46
39	Glucose-Mediated Repression of Plant Biomass Utilization in the White-Rot Fungus <i>Dichomitus squalens</i> . Applied and Environmental Microbiology, 2019, 85, .	3.1	21
40	Draft Genome Sequence of the Basidiomycete White-Rot Fungus Phlebia centrifuga. Genome Announcements, 2018, 6, .	0.8	11
41	Selective Cleavage of Lignin β-‹i>O-4 Aryl Ether Bond by β-Etherase of the White-Rot Fungus ‹i>Dichomitus squalens. ACS Sustainable Chemistry and Engineering, 2018, 6, 2878-2882.	6.7	66
42	The physiology of Agaricus bisporus in semi-commercial compost cultivation appears to be highly conserved among unrelated isolates. Fungal Genetics and Biology, 2018, 112, 12-20.	2.1	9
43	The fungus Aspergillus niger consumes sugars in a sequential manner that is not mediated by the carbon catabolite repressor CreA. Scientific Reports, 2018, 8, 6655.	3.3	24
44	Induction of Genes Encoding Plant Cell Wall-Degrading Carbohydrate-Active Enzymes by Lignocellulose-Derived Monosaccharides and Cellobiose in the White-Rot Fungus Dichomitus squalens. Applied and Environmental Microbiology, 2018, 84, .	3.1	31
45	Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. New Biotechnology, 2018, 40, 282-287.	4.4	29
46	Fungal feruloyl esterases: Functional validation of genome mining based enzyme discovery including uncharacterized subfamilies. New Biotechnology, 2018, 41, 9-14.	4.4	33
47	Temporal transcriptome analysis of the white-rot fungus Obba rivulosa shows expression of a constitutive set of plant cell wall degradation targeted genes during growth on solid spruce wood. Fungal Genetics and Biology, 2018, 112, 47-54.	2.1	21
48	Comparative analysis of basidiomycete transcriptomes reveals a core set of expressed genes encoding plant biomass degrading enzymes. Fungal Genetics and Biology, 2018, 112, 40-46.	2.1	42
49	Cenomic and exoproteomic diversity in plant biomass degradation approaches among Aspergilli. Studies in Mycology, 2018, 91, 79-99.	7.2	24
50	Genomic and Genetic Insights Into a Cosmopolitan Fungus, Paecilomyces variotii (Eurotiales). Frontiers in Microbiology, 2018, 9, 3058.	3.5	35
51	<i>Dichomitus squalens</i> partially tailors its molecular responses to the composition of solid wood. Environmental Microbiology, 2018, 20, 4141-4156.	3.8	36
52	Role of Fungi in Wood Decay. , 2018, , .		11
53	Investigation of inter- and intraspecies variation through genome sequencing of Aspergillus section Nigri. Nature Genetics, 2018, 50, 1688-1695.	21.4	160
54	In Silico Analysis of Putative Sugar Transporter Genes in Aspergillus niger Using Phylogeny and Comparative Transcriptomics. Frontiers in Microbiology, 2018, 9, 1045.	3.5	47

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55	The Synthetic Potential of Fungal Feruloyl Esterases: A Correlation with Current Classification Systems and Predicted Structural Properties. Catalysts, 2018, 8, 242.	3.5	15
56	Characterization of a feruloyl esterase from <i>Aspergillus terreus</i> facilitates the division of fungal enzymes from Carbohydrate Esterase family 1 of the carbohydrateâ€active enzymes (CAZy) database. Microbial Biotechnology, 2018, 11, 869-880.	4.2	36
57	Efficient Extraction Method for High Quality Fungal RNA from Complex Lignocellulosic Substrates. Methods in Molecular Biology, 2018, 1775, 69-73.	0.9	о
58	The draft genome sequence of the ascomycete fungus Penicillium subrubescens reveals a highly enriched content of plant biomass related CAZymes compared to related fungi. Journal of Biotechnology, 2017, 246, 1-3.	3.8	33
59	Comparative genomics reveals high biological diversity and specific adaptations in the industrially and medically important fungal genus Aspergillus. Genome Biology, 2017, 18, 28.	8.8	417
60	Genome Sequence of the Basidiomycete White-Rot Fungus Trametes pubescens FBCC735. Genome Announcements, 2017, 5, .	0.8	11
61	Cultivation of Podospora anserina on soybean hulls results in an efficient enzyme cocktail for plant biomass hydrolysis. New Biotechnology, 2017, 37, 162-171.	4.4	22
62	Occurrence and function of enzymes for lignocellulose degradation in commercial Agaricus bisporus cultivation. Applied Microbiology and Biotechnology, 2017, 101, 4363-4369.	3.6	59
63	Expanding the feruloyl esterase gene family of Aspergillus niger by characterization of a feruloyl esterase, FaeC. New Biotechnology, 2017, 37, 200-209.	4.4	52
64	The molecular response of the whiteâ€rot fungus <scp><i>D</i></scp> <i>ichomitus squalens</i> to wood and nonâ€woody biomass as examined by transcriptome and exoproteome analyses. Environmental Microbiology, 2017, 19, 1237-1250.	3.8	55
65	Genetic transformation of the white-rot fungus Dichomitus squalens using a new commercial protoplasting cocktail. Journal of Microbiological Methods, 2017, 143, 38-43.	1.6	12
66	Fungal Ligninolytic Enzymes and Their Applications. , 2017, , 1049-1061.		2
67	Expression-based clustering of CAZyme-encoding genes of Aspergillus niger. BMC Genomics, 2017, 18, 900.	2.8	54
68	Functional diversity in Dichomitus squalens monokaryons. IMA Fungus, 2017, 8, 17-25.	3.8	22
69	Biochemical Characterization of Recombinant Oxalate Decarboxylases of the White Rot Fungus Dichomitus squalens. Current Biotechnology, 2017, 6, 98-104.	0.4	0
70	Fungal Ligninolytic Enzymes and Their Applications. Microbiology Spectrum, 2016, 4, .	3.0	19
71	Homologous and Heterologous Expression of Basidiomycete Genes Related to Plant Biomass Degradation. Fungal Biology, 2016, , 119-160.	0.6	2
72	Penicillium subrubescens is a promising alternative for Aspergillus niger in enzymatic plant biomass saccharification. New Biotechnology, 2016, 33, 834-841.	4.4	27

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73	Diversity of fungal feruloyl esterases: updated phylogenetic classification, properties, and industrial applications. Biotechnology for Biofuels, 2016, 9, 231.	6.2	133
74	Draft Genome Sequence of the White-Rot Fungus <i>Obba rivulosa</i> 3A-2. Genome Announcements, 2016, 4, .	0.8	15
75	Production of Feruloyl Esterases by Aspergillus Species. , 2016, , 129-144.		1
76	Uncovering the abilities of <scp><i>A</i></scp> <i>garicus bisporus</i> to degrade plant biomass throughout its life cycle. Environmental Microbiology, 2015, 17, 3098-3109.	3.8	49
77	Lignocellulose-converting enzyme activity profiles correlate with molecular systematics and phylogeny grouping in the incoherent genus Phlebia (Polyporales, Basidiomycota). BMC Microbiology, 2015, 15, 217.	3.3	36
78	Saccharification of Lignocelluloses by Carbohydrate Active Enzymes of the White Rot Fungus Dichomitus squalens. PLoS ONE, 2015, 10, e0145166.	2.5	22
79	Aromatic Metabolism of Filamentous Fungi in Relation to the Presence of Aromatic Compounds in Plant Biomass. Advances in Applied Microbiology, 2015, 91, 63-137.	2.4	97
80	Closely related fungi employ diverse enzymatic strategies to degrade plant biomass. Biotechnology for Biofuels, 2015, 8, 107.	6.2	111
81	Fungal colonisation and moisture uptake of torrefied wood, charcoal, and thermally treated pellets during storage. European Journal of Wood and Wood Products, 2015, 73, 709-717.	2.9	16
82	Mitochondrial Genome of Phlebia radiata Is the Second Largest (156 kbp) among Fungi and Features Signs of Genome Flexibility and Recent Recombination Events. PLoS ONE, 2014, 9, e97141.	2.5	80
83	Oxalate-Metabolising Genes of the White-Rot Fungus Dichomitus squalens Are Differentially Induced on Wood and at High Proton Concentration. PLoS ONE, 2014, 9, e87959.	2.5	29
84	Plant-Polysaccharide-Degrading Enzymes from Basidiomycetes. Microbiology and Molecular Biology Reviews, 2014, 78, 614-649.	6.6	340
85	8 Degradation and Modification of Plant Biomass by Fungi. , 2014, , 175-208.		26
86	Biochemical and molecular characterization of an atypical manganese peroxidase of the litter-decomposing fungus Agrocybe praecox. Fungal Genetics and Biology, 2014, 72, 131-136.	2.1	19
87	Genomics, Lifestyles and Future Prospects of Wood-Decay and Litter-Decomposing Basidiomycota. Advances in Botanical Research, 2014, 70, 329-370.	1.1	87
88	Carbohydrate-Binding Modules of Fungal Cellulases. Advances in Applied Microbiology, 2014, 88, 103-165.	2.4	127
89	Plant biomass degradation by fungi. Fungal Genetics and Biology, 2014, 72, 1.	2.1	3
90	An improved and reproducible protocol for the extraction of high quality fungal RNA from plant biomass substrates. Fungal Genetics and Biology, 2014, 72, 201-206.	2.1	20

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91	Plant biomass degradation by fungi. Fungal Genetics and Biology, 2014, 72, 2-9.	2.1	91
92	Transcriptional analysis of selected cellulose-acting enzymes encoding genes of the white-rot fungus Dichomitus squalens on spruce wood and microcrystalline cellulose. Fungal Genetics and Biology, 2014, 72, 91-98.	2.1	31
93	Heterologous expression and structural characterization of two low pH laccases from a biopulping white-rot fungus Physisporinus rivulosus. Applied Microbiology and Biotechnology, 2013, 97, 1589-1599.	3.6	32
94	Carbohydrate utilization and metabolism is highly differentiated in Agaricus bisporus. BMC Genomics, 2013, 14, 663.	2.8	35
95	Agaricus bisporus and related Agaricus species on lignocellulose: Production of manganese peroxidase and multicopper oxidases. Fungal Genetics and Biology, 2013, 55, 32-41.	2.1	26
96	Effect of copper, nutrient nitrogen, and wood-supplement on the production of lignin-modifying enzymes by the white-rot fungus Phlebia radiata. Fungal Biology, 2013, 117, 62-70.	2.5	52
97	Oxalate decarboxylase: biotechnological update and prevalence of the enzyme in filamentous fungi. Applied Microbiology and Biotechnology, 2010, 87, 801-814.	3.6	76
98	Ligninâ€modifying enzymes in filamentous basidiomycetes – ecological, functional and phylogenetic review. Journal of Basic Microbiology, 2010, 50, 5-20.	3.3	367
99	Oxalate decarboxylase of the white-rot fungus Dichomitus squalens demonstrates a novel enzyme primary structure and non-induced expression on wood and in liquid cultures. Microbiology (United) Tj ETQq1 1 (	).71884314	rg <b>B</b> # /Overloo
100	Expression on wood, molecular cloning and characterization of three lignin peroxidase (LiP) encoding genes of the white rot fungus Phlebia radiata. Current Genetics, 2006, 49, 97-105.	1.7	24
101	Expression and molecular properties of a new laccase of the white rot fungus Phlebia radiata grown on wood. Current Genetics, 2006, 50, 323-333.	1.7	37
102	Production of organic acids and oxalate decarboxylase in lignin-degrading white rot fungi. Enzyme and Microbial Technology, 2002, 30, 542-549.	3.2	163