Kristiina HildÃ©n

List of Publications by Year
in descending order

89 papers	4,482 citations	126858 33 h-index	110317 64 g-index
89 all docs	89 docs citations	89 times ranked	4572 citing authors

#	Article	IF	Citations
1	Comparative genomics reveals high biological diversity and specific adaptations in the industrially and medically important fungal genus Aspergillus. Genome Biology, 2017, 18, 28.	3.8	417
2	Ligninâ€modifying enzymes in filamentous basidiomycetes â€“ ecological, functional and phylogenetic review. Journal of Basic Microbiology, 2010, 50, 5-20.	1.8	367
3	Genome sequence of the button mushroom Agaricus bisporus reveals mechanisms governing adaptation to a humic-rich ecological niche. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17501-17506.	3.3	359
4	Plant-Polysaccharide-Degrading Enzymes from Basidiomycetes. Microbiology and Molecular Biology Reviews, 2014, 78, 614-649.	2.9	340
5	Activin disrupts epithelial branching morphogenesis in developing glandular organs of the mouse. Mechanisms of Development, 1995, 50, 229-245.	1.7	190
6	Thermotolerant and thermostable laccases. Biotechnology Letters, 2009, 31, 1117-1128.	1.1	176
7	Diversity of fungal feruloyl esterases: updated phylogenetic classification, properties, and industrial applications. Biotechnology for Biofuels, 2016, 9, 231.	6.2	133
8	Closely related fungi employ diverse enzymatic strategies to degrade plant biomass. Biotechnology for Biofuels, 2015, 8, 107.	6.2	111
9	The tissue distribution of activin beta A- and beta B-subunit and follistatin messenger ribonucleic acids suggests multiple sites of action for the activin-follistatin system during human development. Journal of Clinical Endocrinology and Metabolism, 1994, 78, 1521-1524.	1.8	100
10	Aromatic Metabolism of Filamentous Fungi in Relation to the Presence of Aromatic Compounds in Plant Biomass. Advances in Applied Microbiology, 2015, 91, 63-137.	1.3	97
11	Genomics, Lifestyles and Future Prospects of Wood-Decay and Litter-Decomposing Basidiomycota. Advances in Botanical Research, 2014, 70, 329-370.	0.5	87
12	A comparison between the homocyclic aromatic metabolic pathways from plant-derived compounds by bacteria and fungi. Biotechnology Advances, 2019, 37, 107396.	6.0	83
13	The two manganese peroxidases Pr-MnP2 and Pr-MnP3 of Phlebia radiata, a lignin-degrading basidiomycete, are phylogenetically and structurally divergent. Fungal Genetics and Biology, 2005, 42, 403-419.	0.9	81
14	Oxalate decarboxylase: biotechnological update and prevalence of the enzyme in filamentous fungi. Applied Microbiology and Biotechnology, 2010, 87, 801-814.	1.7	76
15	Selective Cleavage of Lignin Î²-O-4 Aryl Ether Bond by Î²-Etherase of the White-Rot Fungus Dichomitus squalens. ACS Sustainable Chemistry and Engineering, 2018, 6, 2878-2882.	3.2	66
16	Novel thermotolerant laccases produced by the white-rot fungus Physisporinus rivulosus. Applied Microbiology and Biotechnology, 2007, 77, 301-309.	1.7	65
17	Laccase as a Tool in Building Advanced Ligninâ€Based Materials. ChemSusChem, 2021, 14, 4615-4635.	3.6	59
18	Differential regulation of manganese peroxidases and characterization of two variable MnP encoding genes in the white-rot fungus Physisporinus rivulosus. Applied Microbiology and Biotechnology, 2006, 73, 839-849.	1.7	55

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19	The molecular response of the whiteâ€rot fungus <scp>D</scp>ichomitus squalens to wood and nonâ€woody biomass as examined by transcriptome and exoproteome analyses. Environmental Microbiology, 2017, 19, 1237-1250.	1.8	55
20	Activation of the Bone Morphogenetic Protein Signaling Pathway Induces Inhibin Î²B-Subunit mRNA and Secreted Inhibin B Levels in Cultured Human Granulosa-Luteal Cells. Journal of Clinical Endocrinology and Metabolism, 2002, 87, 1254-1261.	1.8	52
21	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.	1.1	52
22	Expanding the feruloyl esterase gene family of Aspergillus niger by characterization of a feruloyl esterase, FaeC. New Biotechnology, 2017, 37, 200-209.	2.4	52
23	Advances in Recombinant Lipases: Production, Engineering, Immobilization and Application in the Pharmaceutical Industry. Catalysts, 2020, 10, 1032.	1.6	52
24	Inhibin/activin subunit mRNA expression in human granulosa-luteal cells. Molecular and Cellular Endocrinology, 1993, 92, R15-R20.	1.6	49
25	Uncovering the abilities of <scp>A</scp>garicus bisporus to degrade plant biomass throughout its life cycle. Environmental Microbiology, 2015, 17, 3098-3109.	1.8	49
26	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.	6.0	46
27	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.	0.9	42
28	Cloning, characterization and localization of three novel class III peroxidases in lignifying xylem of Norway spruce (Picea abies). Plant Molecular Biology, 2006, 61, 719-732.	2.0	40
29	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 0.784314 rgBT /Over		
30	Activation of the Bone Morphogenetic Protein Signaling Pathway Induces Inhibin ÂB-Subunit mRNA and Secreted Inhibin B Levels in Cultured Human Granulosa-Luteal Cells. Journal of Clinical Endocrinology and Metabolism, 2002, 87, 1254-1261.	1.8	38
31	Expression and molecular properties of a new laccase of the white rot fungus Phlebia radiata grown on wood. Current Genetics, 2006, 50, 323-333.	0.8	37
32	Dichomitus squalens partially tailors its molecular responses to the composition of solid wood. Environmental Microbiology, 2018, 20, 4141-4156.	1.8	36
33	Characterization of a feruloyl esterase from Aspergillus terreus facilitates the division of fungal enzymes from Carbohydrate Esterase family 1 of the carbohydrateâ€active enzymes (CAZy) database. Microbial Biotechnology, 2018, 11, 869-880.	2.0	36
34	Molecular characterization of the basidiomycete isolate Nematoloma frowardii b19 and its manganese peroxidase places the fungus in the corticioid genus Phlebia. Microbiology (United Kingdom), 2008, 154, 2371-2379.	0.7	35
35	Manganese peroxidase of Agaricus bisporus: grain bran-promoted production and gene characterization. Applied Microbiology and Biotechnology, 2005, 66, 401-407.	1.7	33
36	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.	1.9	33

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37	Fungal feruloyl esterases: Functional validation of genome mining based enzyme discovery including uncharacterized subfamilies. New Biotechnology, 2018, 41, 9-14.	2.4	33
38	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.	1.7	32
39	Conserved white-rot enzymatic mechanism for wood decay in the Basidiomycota genus Pycnoporus. DNA Research, 2020, 27, .	1.5	32
40	Regulation of inhibin alpha- and beta A-subunit messenger ribonucleic acid levels by chorionic gonadotropin and recombinant follicle-stimulating hormone in cultured human granulosa-luteal cells.. Journal of Clinical Endocrinology and Metabolism, 1994, 79, 1670-1677.	1.8	31
41	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.	0.9	31
42	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.	1.1	29
43	Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. New Biotechnology, 2018, 40, 282-287.	2.4	29
44	l-Amino acid oxidase of the fungus Hebeloma cylindrosporum displays substrate preference towards glutamate. Microbiology (United Kingdom), 2012, 158, 272-283.	0.7	27
45	Penicillium subrubescens is a promising alternative for Aspergillus niger in enzymatic plant biomass saccharification. New Biotechnology, 2016, 33, 834-841.	2.4	27
46	Agaricus bisporus and related Agaricus species on lignocellulose: Production of manganese peroxidase and multicopper oxidases. Fungal Genetics and Biology, 2013, 55, 32-41.	0.9	26
47	8 Degradation and Modification of Plant Biomass by Fungi. , 2014, , 175-208.		26
48	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.	3.2	25
49	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.	0.8	24
50	Genomic and exoproteomic diversity in plant biomass degradation approaches among Aspergilli. Studies in Mycology, 2018, 91, 79-99.	4.5	24
51	Saccharification of Lignocelluloses by Carbohydrate Active Enzymes of the White Rot Fungus Dichomitus squalens. PLoS ONE, 2015, 10, e0145166.	1.1	22
52	Draft Genome Sequences of Three Monokaryotic Isolates of the White-Rot Basidiomycete Fungus Dichomitus squalens. Microbiology Resource Announcements, 2019, 8, .	0.3	22
53	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.	0.9	21
54	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.	0.9	20

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55	Biochemical and molecular characterization of an atypical manganese peroxidase of the litter-decomposing fungus Agrocybe praecox. Fungal Genetics and Biology, 2014, 72, 131-136.	0.9	19
56	Fungal Ligninolytic Enzymes and Their Applications. Microbiology Spectrum, 2016, 4, .	1.2	19
57	Cinnamic Acid and Sorbic acid Conversion Are Mediated by the Same Transcriptional Regulator in Aspergillus niger. Frontiers in Bioengineering and Biotechnology, 2019, 7, 249.	2.0	19
58	Fungal Treatment Modifies Kraft Lignin for Lignin- and Cellulose-Based Carbon Fiber Precursors. ACS Omega, 2020, 5, 6130-6140.	1.6	18
59	Regulation of inhibin alpha- and beta A-subunit messenger ribonucleic acid levels by chorionic gonadotropin and recombinant follicle- stimulating hormone in cultured human granulosa-luteal cells. Journal of Clinical Endocrinology and Metabolism, 1994, 79, 1670-1677.	1.8	18
60	Discovery and Functional Analysis of a Salicylic Acid Hydroxylase from Aspergillus niger. Applied and Environmental Microbiology, 2021, 87, .	1.4	17
61	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.	1.3	16
62	Draft Genome Sequence of the White-Rot Fungus Obba rivulosa 3A-2. Genome Announcements, 2016, 4, .	0.8	15
63	The Synthetic Potential of Fungal Feruloyl Esterases: A Correlation with Current Classification Systems and Predicted Structural Properties. Catalysts, 2018, 8, 242.	1.6	15
64	Colonies of the fungus Aspergillus niger are highly differentiated to adapt to local carbon source variation. Environmental Microbiology, 2020, 22, 1154-1166.	1.8	15
65	Penicillium subrubescens adapts its enzyme production to the composition of plant biomass. Bioresource Technology, 2020, 311, 123477.	4.8	15
66	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.	2.0	14
67	Genetic transformation of the white-rot fungus Dichomitus squalens using a new commercial protoplasting cocktail. Journal of Microbiological Methods, 2017, 143, 38-43.	0.7	12
68	On the Effect of Hot-Water Pretreatment in Sulfur-Free Pulping of Aspen and Wheat Straw. ACS Omega, 2020, 5, 265-273.	1.6	12
69	Enhanced Lignocellulolytic Enzyme Activities on Hardwood and Softwood during Interspecific Interactions of White- and Brown-Rot Fungi. Journal of Fungi (Basel, Switzerland), 2021, 7, 265.	1.5	12
70	Genome Sequence of the Basidiomycete White-Rot Fungus Trametes pubescens FBCC735. Genome Announcements, 2017, 5, .	0.8	11
71	Draft Genome Sequence of the Basidiomycete White-Rot Fungus Phlebia centrifuga. Genome Announcements, 2018, 6, .	0.8	11
72	Role of Fungi in Wood Decay. , 2018, , .		11

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73	Fungal Lignin-Modifying Peroxidases and H2O2-Producing Enzymes. , 2021, , 247-259.		11
74	Progress and Research Needs of Plant Biomass Degradation by Basidiomycete Fungi. Grand Challenges in Biology and Biotechnology, 2020, , 405-438.	2.4	11
75	Fungal Laccases and Their Potential in Bioremediation Applications. Microbiology Monographs, 2020, , 1-25.	0.3	10
76	Assignment<footref rid="foot01">¹</footref> of ACVR2 and ACVR2B the human activin receptor type II and IIB genes to chromosome bands 2q22.2â†'q23.3 and 3p22 and the human follistatin gene (FST) to chromosome 5q11.2 by FISH. Cytogenetic and Genome Research, 1999, 87, 219-220.	0.6	9
77	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.	0.9	9
78	Carbohydrate esterase family 16 contains fungal hemicellulose acetyl esterases (HAEs) with varying specificity. New Biotechnology, 2022, 70, 28-38.	2.4	9
79	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.	2.0	8
80	Co-ordinate expression of activin A and its type I receptor mRNAs during phorbol ester-induced differentiation of human K562 erythroleukemia cells. Molecular and Cellular Endocrinology, 1999, 153, 137-145.	1.6	7
81	Depolymerization of biorefinery lignin by improved laccases of the whiteâ€rot fungus Obba rivulosa. Microbial Biotechnology, 2021, 14, 2140-2151.	2.0	6
82	Engineering Towards Catalytic Use of Fungal Class-II Peroxidases for Dye-Decolorizing and Conversion of Lignin Model Compounds. Current Biotechnology, 2017, 6, 116-127.	0.2	5
83	Correction for Morin et al., Genome sequence of the button mushroom Agaricus bisporus reveals mechanisms governing adaptation to a humic-rich ecological niche. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4146-4146.	3.3	4
84	Homologous and Heterologous Expression of Basidiomycete Genes Related to Plant Biomass Degradation. Fungal Biology, 2016, , 119-160.	0.3	2
85	Fungal Ligninolytic Enzymes and Their Applications. , 2017, , 1049-1061.		2
86	Impacts of holmium and lithium to the growth of selected basidiomycetous fungi and their ability to degrade textile dyes. 3 Biotech, 2020, 10, 357.	1.1	1
87	Production of Feruloyl Esterases by Aspergillus Species. , 2016, , 129-144.		1
88	Efficient Extraction Method for High Quality Fungal RNA from Complex Lignocellulosic Substrates. Methods in Molecular Biology, 2018, 1775, 69-73.	0.4	0
89	Biochemical Characterization of Recombinant Oxalate Decarboxylases of the White Rot Fungus Dichomitus squalens. Current Biotechnology, 2017, 6, 98-104.	0.2	0