

Kristiina Hildn

List of Publications by Citations

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86
papers

3,272
citations

30
h-index

55
g-index

89
ext. papers

4,007
ext. citations

5.4
avg. IF

5.21
L-index

#	Paper	IF	Citations
86	Lignin-modifying enzymes in filamentous basidiomycetes--ecological, functional and phylogenetic review. <i>Journal of Basic Microbiology</i> , 2010 , 50, 5-20	2.7	292
85	Genome sequence of the button mushroom <i>Agaricus bisporus</i> reveals mechanisms governing adaptation to a humic-rich ecological niche. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 17501-6	11.5	277
84	Comparative genomics reveals high biological diversity and specific adaptations in the industrially and medically important fungal genus <i>Aspergillus</i> . <i>Genome Biology</i> , 2017 , 18, 28	18.3	261
83	Plant-polysaccharide-degrading enzymes from Basidiomycetes. <i>Microbiology and Molecular Biology Reviews</i> , 2014 , 78, 614-49	13.2	242
82	Activin disrupts epithelial branching morphogenesis in developing glandular organs of the mouse. <i>Mechanisms of Development</i> , 1995 , 50, 229-45	1.7	177
81	Thermotolerant and thermostable laccases. <i>Biotechnology Letters</i> , 2009 , 31, 1117-28	3	152
80	Diversity of fungal feruloyl esterases: updated phylogenetic classification, properties, and industrial applications. <i>Biotechnology for Biofuels</i> , 2016 , 9, 231	7.8	92
79	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. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1994 , 78, 1521-1524	5.6	89
78	Closely related fungi employ diverse enzymatic strategies to degrade plant biomass. <i>Biotechnology for Biofuels</i> , 2015 , 8, 107	7.8	74
77	The two manganese peroxidases Pr-MnP2 and Pr-MnP3 of <i>Phlebia radiata</i> , a lignin-degrading basidiomycete, are phylogenetically and structurally divergent. <i>Fungal Genetics and Biology</i> , 2005 , 42, 403-19	3.9	73
76	Aromatic metabolism of filamentous fungi in relation to the presence of aromatic compounds in plant biomass. <i>Advances in Applied Microbiology</i> , 2015 , 91, 63-137	4.9	70
75	Genomics, Lifestyles and Future Prospects of Wood-Decay and Litter-Decomposing Basidiomycota. <i>Advances in Botanical Research</i> , 2014 , 70, 329-370	2.2	62
74	Oxalate decarboxylase: biotechnological update and prevalence of the enzyme in filamentous fungi. <i>Applied Microbiology and Biotechnology</i> , 2010 , 87, 801-14	5.7	59
73	Novel thermotolerant laccases produced by the white-rot fungus <i>Physisporinus rivulosus</i> . <i>Applied Microbiology and Biotechnology</i> , 2007 , 77, 301-9	5.7	59
72	Differential regulation of manganese peroxidases and characterization of two variable MnP encoding genes in the white-rot fungus <i>Physisporinus rivulosus</i> . <i>Applied Microbiology and Biotechnology</i> , 2006 , 73, 839-49	5.7	51
71	Effect of copper, nutrient nitrogen, and wood-supplement on the production of lignin-modifying enzymes by the white-rot fungus <i>Phlebia radiata</i> . <i>Fungal Biology</i> , 2013 , 117, 62-70	2.8	45
70	Activation of the bone morphogenetic protein signaling pathway induces inhibin beta(B)-subunit mRNA and secreted inhibin B levels in cultured human granulosa-luteal cells. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2002 , 87, 1254-61	5.6	45

69	Selective Cleavage of Lignin β -4 Aryl Ether Bond by β Etherase of the White-Rot Fungus. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 2878-2882	8.3	43
68	Inhibin/activin subunit mRNA expression in human granulosa-luteal cells. <i>Molecular and Cellular Endocrinology</i> , 1993 , 92, R15-20	4.4	42
67	A comparison between the homocyclic aromatic metabolic pathways from plant-derived compounds by bacteria and fungi. <i>Biotechnology Advances</i> , 2019 , 37, 107396	17.8	37
66	Uncovering the abilities of <i>Agaricus bisporus</i> to degrade plant biomass throughout its life cycle. <i>Environmental Microbiology</i> , 2015 , 17, 3098-109	5.2	37
65	Expanding the feruloyl esterase gene family of <i>Aspergillus niger</i> by characterization of a feruloyl esterase, FaeC. <i>New Biotechnology</i> , 2017 , 37, 200-209	6.4	35
64	Cloning, characterization and localization of three novel class III peroxidases in lignifying xylem of Norway spruce (<i>Picea abies</i>). <i>Plant Molecular Biology</i> , 2006 , 61, 719-32	4.6	35
63	Activation of the Bone Morphogenetic Protein Signaling Pathway Induces Inhibin β -Subunit mRNA and Secreted Inhibin B Levels in Cultured Human Granulosa-Luteal Cells. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2002 , 87, 1254-1261	5.6	35
62	The molecular response of the white-rot fungus <i>Dichomitus squalens</i> to wood and non-woody biomass as examined by transcriptome and exoproteome analyses. <i>Environmental Microbiology</i> , 2017 , 19, 1237-1250	5.2	34
61	Molecular characterization of the basidiomycete isolate <i>Nematoloma frowardii</i> b19 and its manganese peroxidase places the fungus in the corticioid genus <i>Phlebia</i> . <i>Microbiology (United Kingdom)</i> , 2008 , 154, 2371-2379	2.9	33
60	Oxalate decarboxylase of the white-rot fungus <i>Dichomitus squalens</i> demonstrates a novel enzyme primary structure and non-induced expression on wood and in liquid cultures. <i>Microbiology (United Kingdom)</i> , 2009 , 155, 2726-2738	2.9	32
59	Expression and molecular properties of a new laccase of the white rot fungus <i>Phlebia radiata</i> grown on wood. <i>Current Genetics</i> , 2006 , 50, 323-33	2.9	32
58	Manganese peroxidase of <i>Agaricus bisporus</i> : grain bran-promoted production and gene characterization. <i>Applied Microbiology and Biotechnology</i> , 2005 , 66, 401-7	5.7	32
57	Comparative analysis of basidiomycete transcriptomes reveals a core set of expressed genes encoding plant biomass degrading enzymes. <i>Fungal Genetics and Biology</i> , 2018 , 112, 40-46	3.9	30
56	Transcriptional analysis of selected cellulose-acting enzymes encoding genes of the white-rot fungus <i>Dichomitus squalens</i> on spruce wood and microcrystalline cellulose. <i>Fungal Genetics and Biology</i> , 2014 , 72, 91-98	3.9	27
55	Developments and opportunities in fungal strain engineering for the production of novel enzymes and enzyme cocktails for plant biomass degradation. <i>Biotechnology Advances</i> , 2019 , 37, 107361	17.8	26
54	Characterization of a feruloyl esterase from <i>Aspergillus terreus</i> facilitates the division of fungal enzymes from Carbohydrate Esterase family 1 of the carbohydrate-active enzymes (CAZy) database. <i>Microbial Biotechnology</i> , 2018 , 11, 869-880	6.3	25
53	Heterologous expression and structural characterization of two low pH laccases from a biopulping white-rot fungus <i>Physisporinus rivulosus</i> . <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 1589-99	5.7	25
52	Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. <i>New Biotechnology</i> , 2018 , 40, 282-287	6.4	24

51	L-Amino acid oxidase of the fungus <i>Hebeloma cylindrosporum</i> displays substrate preference towards glutamate. <i>Microbiology (United Kingdom)</i> , 2012 , 158, 272-283	2.9	24
50	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. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1994 , 79, 1670-7	5.6	24
49	Oxalate-metabolising genes of the white-rot fungus <i>Dichomitus squalens</i> are differentially induced on wood and at high proton concentration. <i>PLoS ONE</i> , 2014 , 9, e87959	3.7	23
48	<i>Penicillium subrubescens</i> is a promising alternative for <i>Aspergillus niger</i> in enzymatic plant biomass saccharification. <i>New Biotechnology</i> , 2016 , 33, 834-841	6.4	23
47	<i>Agaricus bisporus</i> and related <i>Agaricus</i> species on lignocellulose: production of manganese peroxidase and multicopper oxidases. <i>Fungal Genetics and Biology</i> , 2013 , 55, 32-41	3.9	22
46	Advances in Recombinant Lipases: Production, Engineering, Immobilization and Application in the Pharmaceutical Industry. <i>Catalysts</i> , 2020 , 10, 1032	4	22
45	The draft genome sequence of the ascomycete fungus <i>Penicillium subrubescens</i> reveals a highly enriched content of plant biomass related CAZymes compared to related fungi. <i>Journal of Biotechnology</i> , 2017 , 246, 1-3	3.7	21
44	Expression on wood, molecular cloning and characterization of three lignin peroxidase (LiP) encoding genes of the white rot fungus <i>Phlebia radiata</i> . <i>Current Genetics</i> , 2006 , 49, 97-105	2.9	21
43	Fungal feruloyl esterases: Functional validation of genome mining based enzyme discovery including uncharacterized subfamilies. <i>New Biotechnology</i> , 2018 , 41, 9-14	6.4	20
42	<i>Dichomitus squalens</i> partially tailors its molecular responses to the composition of solid wood. <i>Environmental Microbiology</i> , 2018 , 20, 4141-4156	5.2	19
41	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. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1994 , 79, 1670-1677	5.6	18
40	An improved and reproducible protocol for the extraction of high quality fungal RNA from plant biomass substrates. <i>Fungal Genetics and Biology</i> , 2014 , 72, 201-206	3.9	17
39	Fungal Ligninolytic Enzymes and Their Applications. <i>Microbiology Spectrum</i> , 2016 , 4,	8.9	17
38	8 Degradation and Modification of Plant Biomass by Fungi 2014 , 175-208		16
37	Discovery of Novel p-Hydroxybenzoate-m-hydroxylase, Protocatechuate 3,4 Ring-Cleavage Dioxygenase, and Hydroxyquinol 1,2 Ring-Cleavage Dioxygenase from the Filamentous Fungus <i>Aspergillus niger</i> . <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 19081-19089	8.3	15
36	Biochemical and molecular characterization of an atypical manganese peroxidase of the litter-decomposing fungus <i>Agrocybe praecox</i> . <i>Fungal Genetics and Biology</i> , 2014 , 72, 131-136	3.9	15
35	Fungal colonisation and moisture uptake of torrefied wood, charcoal, and thermally treated pellets during storage. <i>European Journal of Wood and Wood Products</i> , 2015 , 73, 709-717	2.1	14
34	Temporal transcriptome analysis of the white-rot fungus <i>Obba rivulosa</i> shows expression of a constitutive set of plant cell wall degradation targeted genes during growth on solid spruce wood. <i>Fungal Genetics and Biology</i> , 2018 , 112, 47-54	3.9	14

33	Conserved white-rot enzymatic mechanism for wood decay in the Basidiomycota genus <i>Pycnoporus</i> . <i>DNA Research</i> , 2020 , 27,	4.5	13
32	Cinnamic Acid and Sorbic acid Conversion Are Mediated by the Same Transcriptional Regulator in. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 249	5.8	13
31	Saccharification of Lignocelluloses by Carbohydrate Active Enzymes of the White Rot Fungus <i>Dichomitus squalens</i> . <i>PLoS ONE</i> , 2015 , 10, e0145166	3.7	13
30	Genomic and exoproteomic diversity in plant biomass degradation approaches among <i>Aspergilli</i> . <i>Studies in Mycology</i> , 2018 , 91, 79-99	22.2	12
29	Laccase as a Tool in Building Advanced Lignin-Based Materials. <i>ChemSusChem</i> , 2021 , 14, 4615-4635	8.3	11
28	Progress and Research Needs of Plant Biomass Degradation by Basidiomycete Fungi. <i>Grand Challenges in Biology and Biotechnology</i> , 2020 , 405-438	2.4	10
27	<i>Penicillium subrubescens</i> adapts its enzyme production to the composition of plant biomass. <i>Bioresource Technology</i> , 2020 , 311, 123477	11	10
26	Draft Genome Sequence of the White-Rot Fungus <i>Obba rivulosa</i> 3A-2. <i>Genome Announcements</i> , 2016 , 4,		9
25	The Synthetic Potential of Fungal Feruloyl Esterases: A Correlation with Current Classification Systems and Predicted Structural Properties. <i>Catalysts</i> , 2018 , 8, 242	4	9
24	On the Effect of Hot-Water Pretreatment in Sulfur-Free Pulping of Aspen and Wheat Straw. <i>ACS Omega</i> , 2020 , 5, 265-273	3.9	9
23	Draft Genome Sequences of Three Monokaryotic Isolates of the White-Rot Basidiomycete Fungus <i>Dichomitus squalens</i> . <i>Microbiology Resource Announcements</i> , 2019 , 8,	1.3	8
22	Applicability of Recombinant Laccases From the White-Rot Fungus for Mediator-Promoted Oxidation of Biorefinery Lignin at Low pH. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 604497	5.8	8
21	Discovery and Functional Analysis of a Salicylic Acid Hydroxylase from <i>Aspergillus niger</i> . <i>Applied and Environmental Microbiology</i> , 2021 , 87,	4.8	8
20	Role of Fungi in Wood Decay 2018 ,		8
19	Genetic transformation of the white-rot fungus <i>Dichomitus squalens</i> using a new commercial protoplasting cocktail. <i>Journal of Microbiological Methods</i> , 2017 , 143, 38-43	2.8	7
18	Fungal Treatment Modifies Kraft Lignin for Lignin- and Cellulose-Based Carbon Fiber Precursors. <i>ACS Omega</i> , 2020 , 5, 6130-6140	3.9	7
17	The physiology of <i>Agaricus bisporus</i> in semi-commercial compost cultivation appears to be highly conserved among unrelated isolates. <i>Fungal Genetics and Biology</i> , 2018 , 112, 12-20	3.9	7
16	Co-ordinate expression of activin A and its type I receptor mRNAs during phorbol ester-induced differentiation of human K562 erythroleukemia cells. <i>Molecular and Cellular Endocrinology</i> , 1999 , 153, 137-45	4.4	7

15	Colonies of the fungus <i>Aspergillus niger</i> are highly differentiated to adapt to local carbon source variation. <i>Environmental Microbiology</i> , 2020 , 22, 1154-1166	5.2	7
14	Assignment of ACVR2 and ACVR2B the human activin receptor type II and IIB genes to chromosome bands 2q22.2-->q23.3 and 3p22 and the human follistatin gene (FST) to chromosome 5q11.2 by FISH. <i>Cytogenetic and Genome Research</i> , 1999 , 87, 219-20	1.9	6
13	Fungal Lignin-Modifying Peroxidases and H ₂ O ₂ -Producing Enzymes 2021 , 247-259		6
12	Fungal Laccases and Their Potential in Bioremediation Applications. <i>Microbiology Monographs</i> , 2020 , 1-25	0.8	5
11	Genome Sequence of the Basidiomycete White-Rot Fungus FBCC735. <i>Genome Announcements</i> , 2017 , 5,		4
10	Draft Genome Sequence of the Basidiomycete White-Rot Fungus <i>Phlebia centrifuga</i> . <i>Genome Announcements</i> , 2018 , 6,		4
9	Correction for Morin et al., Genome sequence of the button mushroom <i>Agaricus bisporus</i> reveals mechanisms governing adaptation to a humic-rich ecological niche. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 4146-4146	11.5	4
8	Depolymerization of biorefinery lignin by improved laccases of the white-rot fungus <i>Obba rivulosa</i> . <i>Microbial Biotechnology</i> , 2021 , 14, 2140-2151	6.3	4
7	Engineering Towards Catalytic Use of Fungal Class-II Peroxidases for Dye-Decolorizing and Conversion of Lignin Model Compounds. <i>Current Biotechnology</i> , 2017 , 6, 116-127	0.6	3
6	Enhanced Lignocellulolytic Enzyme Activities on Hardwood and Softwood during Interspecific Interactions of White- and Brown-Rot Fungi. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021 , 7,	5.6	3
5	Fungal Ligninolytic Enzymes and Their Applications 2017 , 1049-1061		2
4	Production of Recombinant Laccase From and Its Effect in Mediator Promoted Lignin Oxidation at Neutral pH. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 767139	5.8	2
3	Homologous and Heterologous Expression of Basidiomycete Genes Related to Plant Biomass Degradation. <i>Fungal Biology</i> , 2016 , 119-160	2.3	2
2	Impacts of holmium and lithium to the growth of selected basidiomycetous fungi and their ability to degrade textile dyes. <i>3 Biotech</i> , 2020 , 10, 357	2.8	1
1	Efficient Extraction Method for High Quality Fungal RNA from Complex Lignocellulosic Substrates. <i>Methods in Molecular Biology</i> , 2018 , 1775, 69-73	1.4	