

Markku Saloheimo

List of Publications by Year in descending order

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52
papers

5,954
citations

94433

37
h-index

168389

53
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53
all docs

53
docs citations

53
times ranked

4751
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome sequencing and analysis of the biomass-degrading fungus <i>Trichoderma reesei</i> (syn. <i>Hypocrea</i>) Tj ETQq1 1	0.784314	19116
2	Swollenin, a <i>Trichoderma reesei</i> protein with sequence similarity to the plant expansins, exhibits disruption activity on cellulosic materials. <i>FEBS Journal</i> , 2002, 269, 4202-4211.	0.2	369
3	Protein folding and conformational stress in microbial cells producing recombinant proteins: a host comparative overview. <i>Microbial Cell Factories</i> , 2008, 7, 11.	4.0	269
4	Screening of candidate regulators for cellulase and hemicellulase production in <i>Trichoderma reesei</i> and identification of a factor essential for cellulase production. <i>Biotechnology for Biofuels</i> , 2014, 7, 14.	6.2	215
5	Effects of Inactivation and Constitutive Expression of the Unfolded-Protein Response Pathway on Protein Production in the Yeast <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2003, 69, 2065-2072.	3.1	175
6	Genetic Modification of Carbon Catabolite Repression in <i>Trichoderma reesei</i> for Improved Protein Production. <i>Applied and Environmental Microbiology</i> , 2009, 75, 4853-4860.	3.1	173
7	Re-annotation of the CAZy genes of <i>Trichoderma reesei</i> and transcription in the presence of lignocellulosic substrates. <i>Microbial Cell Factories</i> , 2012, 11, 134.	4.0	173
8	Development of a low-cost cellulase production process using <i>Trichoderma reesei</i> for Brazilian biorefineries. <i>Biotechnology for Biofuels</i> , 2017, 10, 30.	6.2	167
9	Expression of <i>Melanocarpus albomyces</i> laccase in <i>Trichoderma reesei</i> and characterization of the purified enzyme. <i>Microbiology (United Kingdom)</i> , 2004, 150, 3065-3074.	1.8	162
10	cDNA Cloning of a <i>Trichoderma reesei</i> Cellulase and Demonstration of Endoglucanase Activity by Expression in Yeast. <i>FEBS Journal</i> , 1997, 249, 584-591.	0.2	159
11	Crystal structure of a laccase from <i>Melanocarpus albomyces</i> with an intact trinuclear copper site. <i>Nature Structural Biology</i> , 2002, 9, 601-5.	9.7	151
12	Expression in <i>Trichoderma reesei</i> and characterisation of a thermostable family 3 β -glucosidase from the moderately thermophilic fungus <i>Talaromyces emersonii</i> . <i>Protein Expression and Purification</i> , 2004, 38, 248-257.	1.3	146
13	Enzymatic Properties and Intracellular Localization of the Novel <i>Trichoderma reesei</i> β -Glucosidase BGLII (Cel1A). <i>Applied and Environmental Microbiology</i> , 2002, 68, 4546-4553.	3.1	145
14	The Effects of Drugs Inhibiting Protein Secretion in the Filamentous Fungus <i>Trichoderma reesei</i> . <i>Journal of Biological Chemistry</i> , 2003, 278, 45011-45020.	3.4	141
15	Expression of two <i>Trichoderma reesei</i> endoglucanases in the yeast <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 1987, 3, 175-185.	1.7	132
16	Activation mechanisms of the HAcI-mediated unfolded protein response in filamentous fungi. <i>Molecular Microbiology</i> , 2003, 47, 1149-1161.	2.5	132
17	Laccase from the white-rot fungus <i>Trametes versicolor</i> : cDNA cloning of <i>lcc1</i> and expression in <i>Pichia pastoris</i> . <i>Current Genetics</i> , 1997, 32, 425-430.	1.7	130
18	Improvement of Foreign-Protein Production in <i>Aspergillus niger</i> var. <i>awamori</i> by Constitutive Induction of the Unfolded-Protein Response. <i>Applied and Environmental Microbiology</i> , 2003, 69, 6979-6986.	3.1	120

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19	Homologous expression and characterization of Cel61A (EG IV) of <i>Trichoderma reesei</i> . <i>FEBS Journal</i> , 2001, 268, 6498-6507.	0.2	116
20	Unconventional microbial systems for the cost-efficient production of high-quality protein therapeutics. <i>Biotechnology Advances</i> , 2013, 31, 140-153.	11.7	116
21	The cargo and the transport system: secreted proteins and protein secretion in <i>Trichoderma reesei</i> (<i>Hypocrea jecorina</i>). <i>Microbiology (United Kingdom)</i> , 2012, 158, 46-57.	1.8	115
22	Swollenin aids in the amorphogenesis step during the enzymatic hydrolysis of pretreated biomass. <i>Bioresource Technology</i> , 2013, 142, 498-503.	9.6	115
23	Monitoring of transcriptional regulation in <i>Pichia pastoris</i> under protein production conditions. <i>BMC Genomics</i> , 2007, 8, 179.	2.8	105
24	A lignin peroxidase-encoding cDNA from the white-rot fungus <i>Phlebia radiata</i> : characterization and expression in <i>Trichoderma reesei</i> . <i>Gene</i> , 1989, 85, 343-351.	2.2	95
25	Heterologous Production of a Ligninolytic Enzyme: Expression of the <i>Phlebia Radiata</i> Laccase Gene in <i>Trichoderma Reesei</i> . <i>Bio/technology</i> , 1991, 9, 987-990.	1.5	83
26	Molecular Cloning and Expression in <i>Saccharomyces cerevisiae</i> of a Laccase Gene from the Ascomycete <i>Melanocarpus albomyces</i> . <i>Applied and Environmental Microbiology</i> , 2004, 70, 137-144.	3.1	80
27	Common features and interesting differences in transcriptional responses to secretion stress in the fungi <i>Trichoderma reesei</i> and <i>Saccharomyces cerevisiae</i> . <i>BMC Genomics</i> , 2006, 7, 32.	2.8	80
28	Array comparative genomic hybridization analysis of <i>Trichoderma reesei</i> strains with enhanced cellulase production properties. <i>BMC Genomics</i> , 2010, 11, 441.	2.8	77
29	Essential role of the C-terminus in <i>Melanocarpus albomyces</i> laccase for enzyme production, catalytic properties and structure. <i>FEBS Journal</i> , 2009, 276, 6285-6300.	4.7	73
30	Swollenin from <i>Trichoderma reesei</i> exhibits hydrolytic activity against cellulosic substrates with features of both endoglucanases and cellobiohydrolases. <i>Bioresource Technology</i> , 2015, 181, 105-113.	9.6	73
31	Correlation of gene expression and protein production rate - a system wide study. <i>BMC Genomics</i> , 2011, 12, 616.	2.8	67
32	Spatially Segregated SNARE Protein Interactions in Living Fungal Cells. <i>Journal of Biological Chemistry</i> , 2007, 282, 22775-22785.	3.4	60
33	Exploring laccase-like multicopper oxidase genes from the ascomycete <i>Trichoderma reesei</i> : a functional, phylogenetic and evolutionary study. <i>BMC Biochemistry</i> , 2010, 11, 32.	4.4	60
34	Enabling Low Cost Biopharmaceuticals: A Systematic Approach to Delete Proteases from a Well-Known Protein Production Host <i>Trichoderma reesei</i> . <i>PLoS ONE</i> , 2015, 10, e0134723.	2.5	55
35	Yeast protein translocation complex: Isolation of two genes SEB1 and SEB2 encoding proteins homologous to the Sec61 ² subunit. <i>Yeast</i> , 1996, 12, 425-438.	1.7	47
36	Production of a chimeric enzyme tool associating the <i>Trichoderma reesei</i> swollenin with the <i>Aspergillus niger</i> feruloyl esterase A for release of ferulic acid. <i>Applied Microbiology and Biotechnology</i> , 2006, 73, 872-880.	3.6	44

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37	The effects of extracellular pH and of the transcriptional regulator PACI on the transcriptome of <i>Trichoderma reesei</i> . <i>Microbial Cell Factories</i> , 2015, 14, 63.	4.0	42
38	Transcriptional monitoring of steady state and effects of anaerobic phases in chemostat cultures of the filamentous fungus <i>Trichoderma reesei</i> . <i>BMC Genomics</i> , 2006, 7, 247.	2.8	41
39	Quantitative Site-Specific Phosphoproteomics of <i>Trichoderma reesei</i> Signaling Pathways upon Induction of Hydrolytic Enzyme Production. <i>Journal of Proteome Research</i> , 2016, 15, 457-467.	3.7	40
40	Monitoring the kinetics of glycoprotein synthesis and secretion in the filamentous fungus <i>Trichoderma reesei</i> : cellobiohydrolase I (CBHI) as a model protein. <i>Microbiology (United Kingdom)</i> , 2000, 146, 223-232.	1.8	37
41	Protein production and induction of the unfolded protein response in <i>Trichoderma reesei</i> strain Rut-C30 and its transforming expressing endoglucanase I with a hydrophobic tag. <i>Biotechnology and Bioengineering</i> , 2005, 89, 335-344.	3.3	35
42	Rapid and multiplexed transcript analysis of microbial cultures using capillary electrophoresis-detectable oligonucleotide probe pools. <i>Journal of Microbiological Methods</i> , 2006, 65, 404-416.	1.6	35
43	Characterization of Secretory Genes <i>ypt1 / yptA</i> and <i>nsf1 / nsfA</i> from Two Filamentous Fungi: Induction of Secretory Pathway Genes of <i>Trichoderma reesei</i> under Secretion Stress Conditions. <i>Applied and Environmental Microbiology</i> , 2004, 70, 459-467.	3.1	31
44	Site-directed mutagenesis of the putative catalytic residues of <i>Trichoderma reesei</i> cellobiohydrolase I and endoglucanase I. <i>FEBS Letters</i> , 1990, 275, 135-138.	2.8	24
45	Expression of the <i>Trichoderma reesei</i> tyrosinase 2 in <i>Pichia pastoris</i> : Isotopic labeling and physicochemical characterization. <i>Protein Expression and Purification</i> , 2007, 55, 147-158.	1.3	20
46	¹³ C-metabolic flux ratio and novel carbon path analyses confirmed that <i>Trichoderma reesei</i> uses primarily the respiratory pathway also on the preferred carbon source glucose. <i>BMC Systems Biology</i> , 2009, 3, 104.	3.0	20
47	cDNA encoding protein O-mannosyltransferase from the filamentous fungus <i>Trichoderma reesei</i> ; functional equivalence to <i>Saccharomyces cerevisiae</i> PMT2. <i>Current Genetics</i> , 2003, 43, 11-16.	1.7	17
48	The effects of disruption of phosphoglucose isomerase gene on carbon utilisation and cellulase production in <i>Trichoderma reesei</i> Rut-C30. <i>Microbial Cell Factories</i> , 2011, 10, 40.	4.0	14
49	Detecting novel genes with sparse arrays. <i>Gene</i> , 2010, 467, 41-51.	2.2	12
50	<i>Trichoderma reesei</i> rho3 , a homologue of yeast RHO3 , suppresses the growth defect of yeast sec15-1 mutation. <i>Current Genetics</i> , 2001, 40, 119-127.	1.7	11
51	Physiological evaluation of the filamentous fungus <i>Trichoderma reesei</i> in production processes by marker gene expression analysis. <i>BMC Biotechnology</i> , 2007, 7, 28.	3.3	11
52	Comparison of intracellular and secretion-based strategies for production of human β -galactosidase A in the filamentous fungus <i>Trichoderma reesei</i> . <i>BMC Biotechnology</i> , 2014, 14, 91.	3.3	11