

Bernhard Seiboth

List of Publications by Year in descending order

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56
papers

4,794
citations

117453

34
h-index

174990

52
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58
all docs

58
docs citations

58
times ranked

3740
citing authors

#	ARTICLE	IF	CITATIONS
1	A versatile toolkit for high throughput functional genomics with <i>Trichoderma reesei</i> . <i>Biotechnology for Biofuels</i> , 2012, 5, 1.	6.2	434
2	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.	3.8	417
3	Cellulases and beyond: the first 70 years of the enzyme producer <i>Trichoderma reesei</i> . <i>Microbial Cell Factories</i> , 2016, 15, 106.	1.9	412
4	Metabolic engineering strategies for the improvement of cellulase production by <i>Hypocrea jecorina</i> . <i>Biotechnology for Biofuels</i> , 2009, 2, 19.	6.2	353
5	The putative protein methyltransferase LAE1 controls cellulase gene expression in <i>Trichoderma reesei</i> . <i>Molecular Microbiology</i> , 2012, 84, 1150-1164.	1.2	232
6	A complete survey of <i>Trichoderma</i> chitinases reveals three distinct subgroups of family 18 chitinases. <i>FEBS Journal</i> , 2005, 272, 5923-5939.	2.2	209
7	Regulators of plant biomass degradation in ascomycetous fungi. <i>Biotechnology for Biofuels</i> , 2017, 10, 152.	6.2	202
8	Tracking the roots of cellulase hyperproduction by the fungus <i>Trichoderma reesei</i> using massively parallel DNA sequencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 16151-16156.	3.3	190
9	The CRE1 carbon catabolite repressor of the fungus <i>Trichoderma reesei</i> : a master regulator of carbon assimilation. <i>BMC Genomics</i> , 2011, 12, 269.	1.2	180
10	Differential Regulation of the Cellulase Transcription Factors XYR1, ACE2, and ACE1 in <i>Trichoderma reesei</i> Strains Producing High and Low Levels of Cellulase. <i>Eukaryotic Cell</i> , 2011, 10, 262-271.	3.4	136
11	Gene targeting in a nonhomologous end joining deficient <i>Hypocrea jecorina</i> . <i>Journal of Biotechnology</i> , 2009, 139, 146-151.	1.9	134
12	The <i>Hypocrea jecorina</i> (<i>Trichoderma reesei</i>) hypercellulolytic mutant RUT C30 lacks a 85 kb (29) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30	1.2	132
13	Fungal arabinan and l-arabinose metabolism. <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 1665-1673.	1.7	115
14	Systems Analysis of Lactose Metabolism in <i>Trichoderma reesei</i> Identifies a Lactose Permease That Is Essential for Cellulase Induction. <i>PLoS ONE</i> , 2013, 8, e62631.	1.1	111
15	Comparative analysis of the <i>Trichoderma reesei</i> transcriptome during growth on the cellulase inducing substrates wheat straw and lactose. <i>Biotechnology for Biofuels</i> , 2013, 6, 127.	6.2	100
16	The <i>bgl1</i> gene of <i>Trichoderma reesei</i> QM 9414 encodes an extracellular, cellulose-inducible β -glucosidase involved in cellulase induction by sophorose. <i>Molecular Microbiology</i> , 1995, 16, 687-697.	1.2	97
17	The <i>xyl</i> gene of <i>Hypocrea jecorina</i> is the major aldose reductase in pentose and β -galactose catabolism and necessary for β -galactosidase and cellulase induction by lactose. <i>Molecular Microbiology</i> , 2007, 66, 890-900.	1.2	96
18	Nucleocytoplasmic shuttling dynamics of the transcriptional regulators XYR1 and CRE1 under conditions of cellulase and xylanase gene expression in <i>Trichoderma reesei</i> . <i>Molecular Microbiology</i> , 2014, 94, 1162-1178.	1.2	90

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19	The galactokinase of <i>Hypocrea jecorina</i> is essential for cellulase induction by lactose but dispensable for growth on d-galactose. <i>Molecular Microbiology</i> , 2004, 51, 1015-1025.	1.2	70
20	Molecular Regulation of Arabinan and <i>ara1</i> -Arabinose Metabolism in <i>Hypocrea jecorina</i> (<i>Trichoderma reesei</i>). <i>Eukaryotic Cell</i> , 2009, 8, 1837-1844.	3.4	69
21	Xylanase Gene Transcription in <i>Trichoderma reesei</i> Is Triggered by Different Inducers Representing Different Hemicellulosic Pentose Polymers. <i>Eukaryotic Cell</i> , 2013, 12, 390-398.	3.4	69
22	Expression of Biomass-Degrading Enzymes Is a Major Event during <i>Conidium</i> Development in <i>Trichoderma reesei</i> . <i>Eukaryotic Cell</i> , 2011, 10, 1527-1535.	3.4	68
23	The influence of feedstock characteristics on enzyme production in <i>Trichoderma reesei</i> : a review on productivity, gene regulation and secretion profiles. <i>Biotechnology for Biofuels</i> , 2019, 12, 238.	6.2	68
24	A homologous production system for <i>Trichoderma reesei</i> secreted proteins in a cellulase-free background. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 1601-1608.	1.7	63
25	d-Galactose induces cellulase gene expression in <i>Hypocrea jecorina</i> at low growth rates. <i>Microbiology (United Kingdom)</i> , 2006, 152, 1507-1514.	0.7	61
26	Role of the <i>bga1</i> -Encoded Extracellular β -Galactosidase of <i>Hypocrea jecorina</i> in Cellulase Induction by Lactose. <i>Applied and Environmental Microbiology</i> , 2005, 71, 851-857.	1.4	59
27	Functional characterization of the native swollenin from <i>Trichoderma reesei</i> : study of its possible role as C1 factor of enzymatic lignocellulose conversion. <i>Biotechnology for Biofuels</i> , 2016, 9, 178.	6.2	51
28	The Promoter Toolbox for Recombinant Gene Expression in <i>Trichoderma reesei</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 135.	2.0	46
29	Genome sequencing and transcriptome analysis of <i>Trichoderma reesei</i> QM9978 strain reveals a distal chromosome translocation to be responsible for loss of <i>vib1</i> expression and loss of cellulase induction. <i>Biotechnology for Biofuels</i> , 2017, 10, 209.	6.2	43
30	Metabolic Engineering of Inducer Formation for Cellulase and Hemicellulase Gene Expression in <i>Trichoderma reesei</i> . <i>Sub-Cellular Biochemistry</i> , 2012, 64, 367-390.	1.0	42
31	The relation between <i>xyr1</i> overexpression in <i>Trichoderma harzianum</i> and sugarcane bagasse saccharification performance. <i>Journal of Biotechnology</i> , 2017, 246, 24-32.	1.9	39
32	Induction of the <i>gal</i> Pathway and Cellulase Genes Involves No Transcriptional Inducer Function of the Galactokinase in <i>Hypocrea jecorina</i> . <i>Journal of Biological Chemistry</i> , 2007, 282, 18654-18659.	1.6	38
33	Restoration of female fertility in <i>Trichoderma reesei</i> QM6a provides the basis for inbreeding in this industrial cellulase producing fungus. <i>Biotechnology for Biofuels</i> , 2015, 8, 155.	6.2	37
34	<i>ARA1</i> regulates not only <i>ara1</i> -arabinose but also <i>d</i> -galactose catabolism in <i>Trichoderma reesei</i> . <i>FEBS Letters</i> , 2018, 592, 60-70.	1.3	37
35	Molecular and catalytic properties of fungal extracellular cellobiose dehydrogenase produced in prokaryotic and eukaryotic expression systems. <i>Microbial Cell Factories</i> , 2017, 16, 37.	1.9	32
36	Genome sequencing of the <i>Trichoderma reesei</i> QM9136 mutant identifies a truncation of the transcriptional regulator <i>XYR1</i> as the cause for its cellulase-negative phenotype. <i>BMC Genomics</i> , 2015, 16, 326.	1.2	31

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37	N -acetylglucosamine, the building block of chitin, inhibits growth of <i>Neurospora crassa</i> . <i>Fungal Genetics and Biology</i> , 2017, 107, 1-11.	0.9	29
38	Xylitol Production by Genetically Engineered <i>Trichoderma reesei</i> Strains Using Barley Straw as Feedstock. <i>Applied Biochemistry and Biotechnology</i> , 2013, 169, 554-569.	1.4	23
39	The <i>Importin KAP8 (Pse1K_{ap121})</i> is required for nuclear import of the cellulase transcriptional regulator <i>XYR1</i> , asexual sporulation and stress resistance in <i>Trichoderma reesei</i> . <i>Molecular Microbiology</i> , 2015, 96, 405-418.	1.2	22
40	Induction of extracellular β -galactosidase (Bga1) formation by d-galactose in <i>Hypocrea jecorina</i> is mediated by galactitol. <i>Microbiology (United Kingdom)</i> , 2007, 153, 507-512.	0.7	19
41	Deletion of the small GTPase <i>rac1</i> in <i>Trichoderma reesei</i> provokes hyperbranching and impacts growth and cellulase production. <i>Fungal Biology and Biotechnology</i> , 2019, 6, 16.	2.5	18
42	l-Methionine repressible promoters for tuneable gene expression in <i>Trichoderma reesei</i> . <i>Microbial Cell Factories</i> , 2015, 14, 120.	1.9	16
43	Glucose does not activate the plasma-membrane-bound H ⁺ -ATPase but affects <i>pmaA</i> transcript abundance in <i>Aspergillus nidulans</i> . <i>Archives of Microbiology</i> , 2000, 174, 340-345.	1.0	12
44	The impact of putative methyltransferase overexpression on the <i>Trichoderma harzianum</i> cellulolytic system for biomass conversion. <i>Bioresource Technology</i> , 2020, 313, 123616.	4.8	11
45	Heterologous expression of <i>Phanerochaete chrysosporium</i> cellobiose dehydrogenase in <i>Trichoderma reesei</i> . <i>Microbial Cell Factories</i> , 2021, 20, 2.	1.9	11
46	<i>Trichoderma reesei</i> xylanase 5 is defective in the reference strain QM6a but functional alleles are present in other wild-type strains. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 4139-4149.	1.7	10
47	Deletion of either the regulatory gene <i>ara1</i> or metabolic gene <i>xki1</i> in <i>Trichoderma reesei</i> leads to increased CAZyme gene expression on crude plant biomass. <i>Biotechnology for Biofuels</i> , 2019, 12, 81.	6.2	10
48	Comparative characterization of glyoxal oxidase from <i>Phanerochaete chrysosporium</i> expressed at high levels in <i>Pichia pastoris</i> and <i>Trichoderma reesei</i> . <i>Enzyme and Microbial Technology</i> , 2021, 145, 109748.	1.6	10
49	Molecular Tools for Strain Improvement of <i>Trichoderma</i> spp.. , 2014, , 179-191.		8
50	Functional expression and characterization of two laccases from the brown rot <i>Fomitopsis pinicola</i> . <i>Enzyme and Microbial Technology</i> , 2021, 148, 109801.	1.6	8
51	Kinetic transcriptome analysis reveals an essentially intact induction system in a cellulase hyper-producer <i>Trichoderma reesei</i> strain. <i>Biotechnology for Biofuels</i> , 2014, 7, 173.	6.2	7
52	Plant Cell Wall and Chitin Degradation. , 0, , 396-413.		6
53	Replacement of the carbon catabolite regulator (<i>cre1</i>) and fed-batch cultivation as strategies to enhance cellulase production in <i>Trichoderma harzianum</i> . <i>Bioresource Technology Reports</i> , 2021, 13, 100634.	1.5	3
54	6 Degradation of Plant Cell Wall Polymers by Fungi. , 2016, , 127-148.		2

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55	Gene Expression Systems in Industrial Ascomycetes: Advancements and Applications. Fungal Biology, 2016, , 3-22.	0.3	0
56	In Silico Gene Analysis and Oligonucleotide Design for the Construction of Expression Vectors. Methods in Molecular Biology, 2021, 2234, 297-309.	0.4	0