Bernhard Seiboth

List of Publications by Year
in descending order

56 papers	4,794 citations	117625 34 h-index	175258 52 g-index
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 Trichoderma reesei. Biotechnology for Biofuels, 2012, 5, 1.	6.2	434
2	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
3	Cellulases and beyond: the first 70Âyears of the enzyme producer Trichoderma reesei. Microbial Cell Factories, 2016, 15, 106.	4.0	412
4	Metabolic engineering strategies for the improvement of cellulase production by Hypocrea jecorina. Biotechnology for Biofuels, 2009, 2, 19.	6.2	353
5	The putative protein methyltransferase LAE1 controls cellulase gene expression in <i>Trichoderma reesei</i>. Molecular Microbiology, 2012, 84, 1150-1164.	2.5	232
6	A complete survey of <i>Trichoderma</i> chitinases reveals three distinct subgroups of family 18 chitinases. FEBS Journal, 2005, 272, 5923-5939.	4.7	209
7	Regulators of plant biomass degradation in ascomycetous fungi. Biotechnology for Biofuels, 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. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16151-16156.	7.1	190
9	The CRE1 carbon catabolite repressor of the fungus Trichoderma reesei: a master regulator of carbon assimilation. BMC Genomics, 2011, 12, 269.	2.8	180
10	Differential Regulation of the Cellulase Transcription Factors XYR1, ACE2, and ACE1 in Trichoderma reesei Strains Producing High and Low Levels of Cellulase. Eukaryotic Cell, 2011, 10, 262-271.	3.4	136
11	Gene targeting in a nonhomologous end joining deficient Hypocrea jecorina. Journal of Biotechnology, 2009, 139, 146-151.	3.8	134
12	The Hypocrea jecorina (Trichoderma reesei) hypercellulolytic mutant RUT C30 lacks a 85 kb (29) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	2.8	132
13	Fungal arabinan and l-arabinose metabolism. Applied Microbiology and Biotechnology, 2011, 89, 1665-1673.	3.6	115
14	Systems Analysis of Lactose Metabolism in Trichoderma reesei Identifies a Lactose Permease That Is Essential for Cellulase Induction. PLoS ONE, 2013, 8, e62631.	2.5	111
15	Comparative analysis of the Trichoderma reeseitranscriptome during growth on the cellulase inducing substrates wheat straw and lactose. Biotechnology for Biofuels, 2013, 6, 127.	6.2	100
16	The bgl1 gene of Trichoderma reesei QM 9414 encodes an extracellular, cellulose-inducible ?-glucosidase involved in cellulase induction by sophorose. Molecular Microbiology, 1995, 16, 687-697.	2.5	97
17	The <scp>d</scp>â€xylose reductase of <i>Hypocrea jecorina</i> is the major aldose reductase in pentose and <scp>d</scp>â€galactose catabolism and necessary for Î²â€galactosidase and cellulase induction by lactose. Molecular Microbiology, 2007, 66, 890-900.	2.5	96
18	Nucleoâ€cytoplasmic shuttling dynamics of the transcriptional regulators <scp>XYR1</scp> and <scp>CRE1</scp> under conditions of cellulase and xylanase gene expression in <scp><i>T</i></scp><i>richoderma reesei</i>. Molecular Microbiology, 2014, 94, 1162-1178.	2.5	90

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19	The galactokinase of Hypocrea jecorina is essential for cellulase induction by lactose but dispensable for growth on d-galactose. Molecular Microbiology, 2004, 51, 1015-1025.	2.5	70
20	Molecular Regulation of Arabinan and <scp>l</scp> -Arabinose Metabolism in <i>Hypocrea jecorina</i> (<i>Trichoderma reesei</i>). Eukaryotic Cell, 2009, 8, 1837-1844.	3.4	69
21	Xylanase Gene Transcription in Trichoderma reesei Is Triggered by Different Inducers Representing Different Hemicellulosic Pentose Polymers. Eukaryotic Cell, 2013, 12, 390-398.	3.4	69
22	Expression of Biomass-Degrading Enzymes Is a Major Event during Conidium Development in Trichoderma reesei. Eukaryotic Cell, 2011, 10, 1527-1535.	3.4	68
23	The influence of feedstock characteristics on enzyme production in Trichoderma reesei: a review on productivity, gene regulation and secretion profiles. Biotechnology for Biofuels, 2019, 12, 238.	6.2	68
24	A homologous production system for Trichoderma reesei secreted proteins in a cellulase-free background. Applied Microbiology and Biotechnology, 2012, 93, 1601-1608.	3.6	63
25	d-Galactose induces cellulase gene expression in Hypocrea jecorina at low growth rates. Microbiology (United Kingdom), 2006, 152, 1507-1514.	1.8	61
26	Role of the bga1 -Encoded Extracellular Î²-Galactosidase of Hypocrea jecorina in Cellulase Induction by Lactose. Applied and Environmental Microbiology, 2005, 71, 851-857.	3.1	59
27	Functional characterization of the native swollenin from Trichoderma reesei: study of its possible role as C1 factor of enzymatic lignocellulose conversion. Biotechnology for Biofuels, 2016, 9, 178.	6.2	51
28	The Promoter Toolbox for Recombinant Gene Expression in Trichoderma reesei. Frontiers in Bioengineering and Biotechnology, 2018, 6, 135.	4.1	46
29	Genome sequencing and transcriptome analysis of Trichoderma reesei QM9978 strain reveals a distal chromosome translocation to be responsible for loss of vib1 expression and loss of cellulase induction. Biotechnology for Biofuels, 2017, 10, 209.	6.2	43
30	Metabolic Engineering of Inducer Formation for Cellulase and Hemicellulase Gene Expression in Trichoderma reesei. Sub-Cellular Biochemistry, 2012, 64, 367-390.	2.4	42
31	The relation between xyr1 overexpression in Trichoderma harzianum and sugarcane bagasse saccharification performance. Journal of Biotechnology, 2017, 246, 24-32.	3.8	39
32	Induction of the gal Pathway and Cellulase Genes Involves No Transcriptional Inducer Function of the Galactokinase in Hypocrea jecorina. Journal of Biological Chemistry, 2007, 282, 18654-18659.	3.4	38
33	Restoration of female fertility in Trichoderma reesei QM6a provides the basis for inbreeding in this industrial cellulase producing fungus. Biotechnology for Biofuels, 2015, 8, 155.	6.2	37
34	<scp>ARA</scp>1 regulates not only <scp>l</scp>â€arabinose but also <scp>d</scp>â€galactose catabolism in <i>Trichoderma reesei</i>. FEBS Letters, 2018, 592, 60-70.	2.8	37
35	Molecular and catalytic properties of fungal extracellular cellobiose dehydrogenase produced in prokaryotic and eukaryotic expression systems. Microbial Cell Factories, 2017, 16, 37.	4.0	32
36	Genome sequencing of the Trichoderma reesei QM9136 mutant identifies a truncation of the transcriptional regulator XYR1 as the cause for its cellulase-negative phenotype. BMC Genomics, 2015, 16, 326.	2.8	31

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37	N -acetylglucosamine, the building block of chitin, inhibits growth of Neurospora crassa. Fungal Genetics and Biology, 2017, 107, 1-11.	2.1	29
38	Xylitol Production by Genetically Engineered Trichoderma reesei Strains Using Barley Straw as Feedstock. Applied Biochemistry and Biotechnology, 2013, 169, 554-569.	2.9	23
39	The ÃŸâ€importin <scp>KAP</scp>8 (<scp>P</scp>se1/<scp>K</scp>ap121) is required for nuclear import of the cellulase transcriptional regulator <scp>XYR</scp>1, asexual sporulation and stress resistance in <scp><i>T</i></scp><i>richoderma reesei</i>. Molecular Microbiology, 2015, 96, 405-418.	2.5	22
40	Induction of extracellular Î²-galactosidase (Bga1) formation by d-galactose in Hypocrea jecorina is mediated by galactitol. Microbiology (United Kingdom), 2007, 153, 507-512.	1.8	19
41	Deletion of the small GTPase rac1 in Trichoderma reesei provokes hyperbranching and impacts growth and cellulase production. Fungal Biology and Biotechnology, 2019, 6, 16.	5.1	18
42	l-Methionine repressible promoters for tuneable gene expression in Trichoderma reesei. Microbial Cell Factories, 2015, 14, 120.	4.0	16
43	Glucose does not activate the plasma-membrane-bound H + -ATPase but affects pmaA transcript abundance in Aspergillus nidulans. Archives of Microbiology, 2000, 174, 340-345.	2.2	12
44	The impact of putative methyltransferase overexpression on the Trichoderma harzianum cellulolytic system for biomass conversion. Bioresource Technology, 2020, 313, 123616.	9.6	11
45	Heterologous expression of Phanerochaete chrysosporium cellobiose dehydrogenase in Trichoderma reesei. Microbial Cell Factories, 2021, 20, 2.	4.0	11
46	Trichoderma reesei xylanase 5 is defective in the reference strain QM6a but functional alleles are present in other wild-type strains. Applied Microbiology and Biotechnology, 2017, 101, 4139-4149.	3.6	10
47	Deletion of either the regulatory gene ara1 or metabolic gene xki1 in Trichoderma reesei leads to increased CAZyme gene expression on crude plant biomass. Biotechnology for Biofuels, 2019, 12, 81.	6.2	10
48	Comparative characterization of glyoxal oxidase from Phanerochaete chrysosporium expressed at high levels in Pichia pastoris and Trichoderma reesei. Enzyme and Microbial Technology, 2021, 145, 109748.	3.2	10
49	Molecular Tools for Strain Improvement of Trichoderma spp.. , 2014, , 179-191.		8
50	Functional expression and characterization of two laccases from the brown rot Fomitopsis pinicola. Enzyme and Microbial Technology, 2021, 148, 109801.	3.2	8
51	Kinetic transcriptome analysis reveals an essentially intact induction system in a cellulase hyper-producer Trichoderma reesei strain. Biotechnology for Biofuels, 2014, 7, 173.	6.2	7
52	Plant Cell Wall and Chitin Degradation. , 0, , 396-413.		6
53	Replacement of the carbon catabolite regulator (cre1) and fed-batch cultivation as strategies to enhance cellulase production in Trichoderma harzianum. Bioresource Technology Reports, 2021, 13, 100634.	2.7	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.	0.6	0
56	In Silico Gene Analysis and Oligonucleotide Design for the Construction of Expression Vectors. Methods in Molecular Biology, 2021, 2234, 297-309.	0.9	0