

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104 papers	3,740 citations	32 h-index	58 g-index
125 ext. papers	4,654 ext. citations	5.6 avg, IF	5.8 L-index

#	Paper	IF	Citations
104	Genetic engineering of filamentous fungi--progress, obstacles and future trends. <i>Biotechnology Advances</i> , <b>2008</b> , 26, 177-85	17.8	266
103	Comparative genomics reveals high biological diversity and specific adaptations in the industrially and medically important fungal genus <i>Aspergillus</i> . <i>Genome Biology</i> , <b>2017</b> , 18, 28	18.3	261
102	Highly efficient gene targeting in the <i>Aspergillus niger</i> kusA mutant. <i>Journal of Biotechnology</i> , <b>2007</b> , 128, 770-5	3.7	223
101	Fungal gene expression on demand: an inducible, tunable, and metabolism-independent expression system for <i>Aspergillus niger</i> . <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 2975-83	4.8	127
100	<i>Aspergillus</i> as a multi-purpose cell factory: current status and perspectives. <i>Biotechnology Letters</i> , <b>2011</b> , 33, 469-76	3	115
99	Expanding the ku70 toolbox for filamentous fungi: establishment of complementation vectors and recipient strains for advanced gene analyses. <i>Applied Microbiology and Biotechnology</i> , <b>2010</b> , 87, 1463-73	5.7	115
98	How a fungus shapes biotechnology: 100 years of research. <i>Fungal Biology and Biotechnology</i> , <b>2018</b> , 5, 13	7.5	104
97	Comparison of different transformation methods for <i>Aspergillus giganteus</i> . <i>Current Genetics</i> , <b>2003</b> , 43, 371-7	2.9	98
96	Growing a circular economy with fungal biotechnology: a white paper. <i>Fungal Biology and Biotechnology</i> , <b>2020</b> , 7, 5	7.5	97
95	The carbon starvation response of <i>Aspergillus niger</i> during submerged cultivation: insights from the transcriptome and secretome. <i>BMC Genomics</i> , <b>2012</b> , 13, 380	4.5	92
94	Functional characterization of Rho GTPases in <i>Aspergillus niger</i> uncovers conserved and diverged roles of Rho proteins within filamentous fungi. <i>Molecular Microbiology</i> , <b>2011</b> , 79, 1151-67	4.1	91
93	Two zinc finger transcription factors, CrzA and SltA, are involved in cation homeostasis and detoxification in <i>Aspergillus nidulans</i> . <i>Biochemical Journal</i> , <b>2008</b> , 414, 419-29	3.8	82
92	A small protein that fights fungi: AFP as a new promising antifungal agent of biotechnological value. <i>Applied Microbiology and Biotechnology</i> , <b>2008</b> , 78, 17-28	5.7	82
91	Scleroglucan: biosynthesis, production and application of a versatile hydrocolloid. <i>Applied Microbiology and Biotechnology</i> , <b>2011</b> , 91, 937-47	5.7	70
90	The antifungal protein AFP from <i>Aspergillus giganteus</i> inhibits chitin synthesis in sensitive fungi. <i>Applied and Environmental Microbiology</i> , <b>2007</b> , 73, 2128-34	4.8	70
89	Survival in the presence of antifungals: genome-wide expression profiling of <i>Aspergillus niger</i> in response to sublethal concentrations of caspofungin and fenpropimorph. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 32935-48	5.4	66
88	Moulding the mould: understanding and reprogramming filamentous fungal growth and morphogenesis for next generation cell factories. <i>Biotechnology for Biofuels</i> , <b>2019</b> , 12, 77	7.8	63

87	5S rRNA Promoter for Guide RNA Expression Enabled Highly Efficient CRISPR/Cas9 Genome Editing in. <i>ACS Synthetic Biology</i> , <b>2019</b> , 8, 1568-1574	5.7	63
86	Using non-homologous end-joining-deficient strains for functional gene analyses in filamentous fungi. <i>Methods in Molecular Biology</i> , <b>2012</b> , 835, 133-50	1.4	61
85	From Axenic to Mixed Cultures: Technological Advances Accelerating a Paradigm Shift in Microbiology. <i>Trends in Microbiology</i> , <b>2018</b> , 26, 538-554	12.4	60
84	Engineering of for the production of secondary metabolites. <i>Fungal Biology and Biotechnology</i> , <b>2014</b> , 1, 4	7.5	54
83	Tet-on, or Tet-off, that is the question: Advanced conditional gene expression in <i>Aspergillus</i> . <i>Fungal Genetics and Biology</i> , <b>2016</b> , 89, 72-83	3.9	52
82	New insights into the target site and mode of action of the antifungal protein of <i>Aspergillus giganteus</i> . <i>Research in Microbiology</i> , <b>2005</b> , 156, 47-56	4	47
81	Morphology and development in <i>Aspergillus nidulans</i> : a complex puzzle. <i>Fungal Genetics and Biology</i> , <b>2009</b> , 46 Suppl 1, S82-S92	3.9	45
80	Survival strategies of yeast and filamentous fungi against the antifungal protein AFP. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 13859-68	5.4	45
79	The antifungal protein PAF interferes with PKC/MPK and cAMP/PKA signalling of <i>Aspergillus nidulans</i> . <i>Molecular Microbiology</i> , <b>2010</b> , 75, 294-307	4.1	40
78	Reconstruction of signaling networks regulating fungal morphogenesis by transcriptomics. <i>Eukaryotic Cell</i> , <b>2009</b> , 8, 1677-91		39
77	The transcriptomic fingerprint of glucoamylase over-expression in <i>Aspergillus niger</i> . <i>BMC Genomics</i> , <b>2012</b> , 13, 701	4.5	38
76	The <i>Aspergillus giganteus</i> antifungal protein AFPNN5353 activates the cell wall integrity pathway and perturbs calcium homeostasis. <i>BMC Microbiology</i> , <b>2011</b> , 11, 209	4.5	37
75	Updating genome annotation for the microbial cell factory <i>Aspergillus niger</i> using gene co-expression networks. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, 559-569	20.1	36
74	Autophagy promotes survival in aging submerged cultures of the filamentous fungus <i>Aspergillus niger</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 8205-18	5.7	33
73	Construction of an improved <i>Aspergillus niger</i> platform for enhanced glucoamylase secretion. <i>Microbial Cell Factories</i> , <b>2018</b> , 17, 95	6.4	31
72	Reprogramming the Biosynthesis of Cyclodepsipeptide Synthetases to Obtain New Enniatins and Beauvericins. <i>ChemBioChem</i> , <b>2016</b> , 17, 283-7	3.8	31
71	Polycistronic gene expression in <i>Aspergillus niger</i> . <i>Microbial Cell Factories</i> , <b>2017</b> , 16, 162	6.4	29
70	The Cell Factory <i>Aspergillus</i> Enters the Big Data Era: Opportunities and Challenges for Optimising Product Formation. <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>2015</b> , 149, 91-132	1.7	28

69	Transcriptome sequencing and comparative transcriptome analysis of the scleroglucan producer <i>Sclerotium rolfsii</i> . <i>BMC Genomics</i> , <b>2010</b> , 11, 329	4.5	28
68	The antifungal protein AFP secreted by <i>Aspergillus giganteus</i> does not cause detrimental effects on certain mammalian cells. <i>Peptides</i> , <b>2006</b> , 27, 1717-25	3.8	28
67	Harnessing fungal nonribosomal cyclodepsipeptide synthetases for mechanistic insights and tailored engineering. <i>Chemical Science</i> , <b>2017</b> , 8, 7834-7843	9.4	27
66	New resources for functional analysis of omics data for the genus <i>Aspergillus</i> . <i>BMC Genomics</i> , <b>2011</b> , 12, 486	4.5	27
65	Conditional Expression of the Small GTPase ArfA Impacts Secretion, Morphology, Growth, and Actin Ring Position in. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 878	5.7	26
64	The influence of co-cultivation on expression of the antifungal protein in <i>Aspergillus giganteus</i> . <i>Journal of Basic Microbiology</i> , <b>2003</b> , 43, 68-74	2.7	26
63	A Transcriptome Meta-Analysis Proposes Novel Biological Roles for the Antifungal Protein AnAFP in <i>Aspergillus niger</i> . <i>PLoS ONE</i> , <b>2016</b> , 11, e0165755	3.7	25
62	Practical guidance for the implementation of the CRISPR genome editing tool in filamentous fungi. <i>Fungal Biology and Biotechnology</i> , <b>2019</b> , 6, 15	7.5	23
61	The transcriptomic signature of RacA activation and inactivation provides new insights into the morphogenetic network of <i>Aspergillus niger</i> . <i>PLoS ONE</i> , <b>2013</b> , 8, e68946	3.7	23
60	A quantitative image analysis pipeline for the characterization of filamentous fungal morphologies as a tool to uncover targets for morphology engineering: a case study using in. <i>Biotechnology for Biofuels</i> , <b>2019</b> , 12, 149	7.8	22
59	is a superior expression host for the production of bioactive fungal cyclodepsipeptides. <i>Fungal Biology and Biotechnology</i> , <b>2018</b> , 5, 4	7.5	22
58	Molecular genetic analysis of vesicular transport in <i>Aspergillus niger</i> reveals partial conservation of the molecular mechanism of exocytosis in fungi. <i>Microbiology (United Kingdom)</i> , <b>2014</b> , 160, 316-329	2.9	22
57	The polarisome component SpaA localises to hyphal tips of <i>Aspergillus niger</i> and is important for polar growth. <i>Fungal Genetics and Biology</i> , <b>2008</b> , 45, 152-64	3.9	22
56	Rocking <i>Aspergillus</i> : morphology-controlled cultivation of <i>Aspergillus niger</i> in a wave-mixed bioreactor for the production of secondary metabolites. <i>Microbial Cell Factories</i> , <b>2018</b> , 17, 128	6.4	21
55	An X-ray microtomography-based method for detailed analysis of the three-dimensional morphology of fungal pellets. <i>Biotechnology and Bioengineering</i> , <b>2019</b> , 116, 1355-1365	4.9	19
54	In silico prediction and characterization of secondary metabolite biosynthetic gene clusters in the wheat pathogen <i>Zymoseptoria tritici</i> . <i>BMC Genomics</i> , <b>2017</b> , 18, 631	4.5	19
53	New insights in the regulation of the <i>afp</i> gene encoding the antifungal protein of <i>Aspergillus giganteus</i> . <i>Current Genetics</i> , <b>2002</b> , 42, 36-42	2.9	19
52	Transcriptomic and molecular genetic analysis of the cell wall salvage response of <i>Aspergillus niger</i> to the absence of galactofuranose synthesis. <i>Cellular Microbiology</i> , <b>2016</b> , 18, 1268-84	3.9	19

51	Spores Are Highly Resistant to Space Radiation. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 560	5.7	18
50	Antifungal Peptides of the AFP Family Revisited: Are These Cannibal Toxins?. <i>Microorganisms</i> , <b>2018</b> , 6,	4.9	18
49	From three-dimensional morphology to effective diffusivity in filamentous fungal pellets. <i>Biotechnology and Bioengineering</i> , <b>2019</b> , 116, 3360-3371	4.9	17
48	Rational biosynthetic approaches for the production of new-to-nature compounds in fungi. <i>Fungal Genetics and Biology</i> , <b>2016</b> , 89, 89-101	3.9	16
47	Genetics, Genetic Manipulation, and Approaches to Strain Improvement of Filamentous Fungi <b>2014</b> , 318-329		16
46	The low affinity glucose transporter HxtB is also involved in glucose signalling and metabolism in <i>Aspergillus nidulans</i> . <i>Scientific Reports</i> , <b>2017</b> , 7, 45073	4.9	15
45	Functional exploration of co-expression networks identifies a nexus for modulating protein and citric acid titres in submerged culture. <i>Fungal Biology and Biotechnology</i> , <b>2019</b> , 6, 18	7.5	15
44	The antifungal protein AFP from <i>Aspergillus giganteus</i> prevents secondary growth of different <i>Fusarium</i> species on barley. <i>Applied Microbiology and Biotechnology</i> , <b>2010</b> , 87, 617-24	5.7	14
43	A <i>Penicillium rubens</i> platform strain for secondary metabolite production. <i>Scientific Reports</i> , <b>2020</b> , 10, 7630	4.9	13
42	Highly active promoters and native secretion signals for protein production during extremely low growth rates in <i>Aspergillus niger</i> . <i>Microbial Cell Factories</i> , <b>2016</b> , 15, 145	6.4	13
41	A community-driven reconstruction of the metabolic network. <i>Fungal Biology and Biotechnology</i> , <b>2018</b> , 5, 16	7.5	12
40	A Computational Modeling Approach Predicts Interaction of the Antifungal Protein AFP from with Fungal Membranes via Its ECore Motif. <i>MSphere</i> , <b>2018</b> , 3,	5	12
39	Fungal Biotechnology in Space: Why and How?. <i>Grand Challenges in Biology and Biotechnology</i> , <b>2020</b> , 501-535	2.4	11
38	GTP-binding protein Era: a novel gene target for biofuel production. <i>BMC Biotechnology</i> , <b>2015</b> , 15, 21	3.5	10
37	Identification of SclB, a Zn(II)Cys transcription factor involved in sclerotium formation in <i>Aspergillus niger</i> . <i>Fungal Genetics and Biology</i> , <b>2020</b> , 139, 103377	3.9	10
36	HisB as novel selection marker for gene targeting approaches in <i>Aspergillus niger</i> . <i>BMC Microbiology</i> , <b>2017</b> , 17, 57	4.5	10
35	The capacity of to sense and respond to cell wall stress requires at least three transcription factors: RlmA, MsnA and CrzA. <i>Fungal Biology and Biotechnology</i> , <b>2014</b> , 1, 5	7.5	10
34	Application of hammerhead ribozymes in filamentous fungi. <i>Journal of Microbiological Methods</i> , <b>2006</b> , 65, 585-95	2.8	8

33	The use of open source bioinformatics tools to dissect transcriptomic data. <i>Methods in Molecular Biology</i> , <b>2012</b> , 835, 311-31	1.4	8
32	Ca-Zn-Ag Alginate Aerogels for Wound Healing Applications: Swelling Behavior in Simulated Human Body Fluids and Effect on Macrophages. <i>Polymers</i> , <b>2020</b> , 12,	4.5	8
31	Universal law for diffusive mass transport through mycelial networks. <i>Biotechnology and Bioengineering</i> , <b>2021</b> , 118, 930-943	4.9	8
30	The <i>Aspergillus niger</i> RmsA protein: A node in a genetic network?. <i>Communicative and Integrative Biology</i> , <b>2010</b> , 3, 195-7	1.7	7
29	Alkaline pH-induced up-regulation of the <i>afp</i> gene encoding the antifungal protein (AFP) of <i>Aspergillus giganteus</i> is not mediated by the transcription factor PacC: possible involvement of calcineurin. <i>Molecular Genetics and Genomics</i> , <b>2005</b> , 274, 295-306	3.1	7
28	Species-Specific Differences in the Susceptibility of Fungi to the Antifungal Protein AFP Depend on C-3 Saturation of Glycosylceramides. <i>MSphere</i> , <b>2019</b> , 4,	5	7
27	Modular Synthetic Biology Toolkit for Filamentous Fungi. <i>ACS Synthetic Biology</i> , <b>2021</b> , 10, 2850-2861	5.7	6
26	Engineering cofactor metabolism for improved protein and glucoamylase production in <i>Aspergillus niger</i> . <i>Microbial Cell Factories</i> , <b>2020</b> , 19, 198	6.4	6
25	Something old, something new: challenges and developments in <i>Aspergillus niger</i> biotechnology. <i>Essays in Biochemistry</i> , <b>2021</b> , 65, 213-224	7.6	6
24	Comparative genomics of the aconidial <i>Aspergillus niger</i> strain LDM3 predicts genes associated with its high protein secretion capacity. <i>Applied Microbiology and Biotechnology</i> , <b>2020</b> , 104, 2623-2637	5.7	5
23	A bifunctional enzyme from <i>Rhodococcus erythropolis</i> exhibiting secondary alcohol dehydrogenase-catalase activities. <i>Applied Microbiology and Biotechnology</i> , <b>2014</b> , 98, 9249-58	5.7	5
22	<i>Aspergillus</i> <b>2013</b> , 1-51		5
21	Life Cycle Assessment of Fungal-Based Composite Bricks. <i>Sustainability</i> , <b>2021</b> , 13, 11573	3.6	5
20	Understanding and controlling filamentous growth of fungal cell factories: novel tools and opportunities for targeted morphology engineering. <i>Fungal Biology and Biotechnology</i> , <b>2021</b> , 8, 8	7.5	4
19	Extrusion-based additive manufacturing of fungal-based composite materials using the tinder fungus <i>Fomes fomentarius</i> .. <i>Fungal Biology and Biotechnology</i> , <b>2021</b> , 8, 21	7.5	4
18	Nucleic and Protein Extraction Methods for Fungal Exopolysaccharide Producers <b>2013</b> , 427-434		3
17	Genetic and Metabolic Engineering in Filamentous Fungi <b>2009</b> , 377-392		3
16	Metabolic Engineering of Filamentous Fungi <b>2021</b> , 765-801		3

15	Turning Inside Out: Filamentous Fungal Secretion and Its Applications in Biotechnology, Agriculture, and the Clinic. <i>Journal of Fungi (Basel, Switzerland)</i> , <b>2021</b> , 7,	5.6	3
14	Comprehensively dissecting the hub regulation of PkaC on high-productivity and pellet macromorphology in citric acid producing <i>Aspergillus niger</i> .. <i>Microbial Biotechnology</i> , <b>2022</b> ,	6.3	3
13	The colors of life: an interdisciplinary artist-in-residence project to research fungal pigments as a gateway to empathy and understanding of microbial life.. <i>Fungal Biology and Biotechnology</i> , <b>2022</b> , 9, 1	7.5	2
12	Effect of Cultivation Conditions on Its Adsorption Performance for Anionic and Cationic Dyes.. <i>ACS Omega</i> , <b>2022</b> , 7, 4158-4169	3.9	2
11	Beyond the Biosynthetic Gene Cluster Paradigm: Genome-Wide Coexpression Networks Connect Clustered and Unclustered Transcription Factors to Secondary Metabolic Pathways. <i>Microbiology Spectrum</i> , <b>2021</b> , 9, e0089821	8.9	2
10	Vesicle transport and growth dynamics in <i>Aspergillus niger</i> : Microscale modeling of secretory vesicle flow and centerline extraction from confocal fluorescent data. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 2875-2886	4.9	1
9	9 Transcriptomics of Industrial Filamentous Fungi: A New View on Regulation, Physiology, and Application <b>2014</b> , 209-232		1
8	In Vitro Systems for Toxicity Evaluation of Microbial Volatile Organic Compounds on Humans: Current Status and Trends.. <i>Journal of Fungi (Basel, Switzerland)</i> , <b>2022</b> , 8,	5.6	1
7	A Library of Chassis Strains for Morphology Engineering Connects Strain Fitness and Filamentous Growth With Submerged Macromorphology.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 820088	5.8	1
6	Establishment of the basidiomycete <i>Fomes fomentarius</i> for the production of composite materials.. <i>Fungal Biology and Biotechnology</i> , <b>2022</b> , 9, 4	7.5	1
5	Structure-Activity Predictions From Computational Mining of Protein Databases to Assist Modular Design of Antimicrobial Peptides.. <i>Frontiers in Microbiology</i> , <b>2022</b> , 13, 812903	5.7	1
4	Synthesis and mode of action studies of novel {2-(3-R-1H-1,2,4-triazol-5-yl)phenyl}amines to combat pathogenic fungi. <i>Archiv Der Pharmazie</i> , <b>2019</b> , 352, e1900092	4.3	0
3	Pilzbiotechnologie als Innovationsmotor. <i>BioSpektrum</i> , <b>2020</b> , 26, 339-339	0.1	
2	Screening for Compounds Exerting Antifungal Activities <b>2013</b> , 225-230		
1	Morphologische Formfindung in Hyphenpilzen Gleich oder ungleich?. <i>BioSpektrum</i> , <b>2013</b> , 19, 489-491	0.1	