Vera Meyer

List of Publications by Year in Descending Order

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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	In Vitro Systems for Toxicity Evaluation of Microbial Volatile Organic Compounds on Humans: Current Status and Trends.. *Journal of Fungi (Basel, Switzerland)*, **2022**, 8,	5.6	1
103	The colors of life: an interdisciplinary artist-in-residence project to research fungal pigments as a gateway to empathy and understanding of microbial life.. *Fungal Biology and Biotechnology*, **2022**, 9, 1	7.5	2
102	Effect of Cultivation Conditions on Its Adsorption Performance for Anionic and Cationic Dyes.. *ACS Omega*, **2022**, 7, 4158-4169	3.9	2
101	Establishment of the basidiomycete Fomes fomentarius for the production of composite materials.. *Fungal Biology and Biotechnology*, **2022**, 9, 4	7.5	1
100	Comprehensively dissecting the hub regulation of PkaC on high-productivity and pellet macromorphology in citric acid producing Aspergillus niger.. *Microbial Biotechnology*, **2022**,	6.3	3
99	Structure-Activity Predictions From Computational Mining of Protein Databases to Assist Modular Design of Antimicrobial Peptides.. *Frontiers in Microbiology*, **2022**, 13, 812903	5.7	1
98	A Library of Chassis Strains for Morphology Engineering Connects Strain Fitness and Filamentous Growth With Submerged Macromorphology.. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 820088	5.8	1
97	Modular Synthetic Biology Toolkit for Filamentous Fungi. *ACS Synthetic Biology*, **2021**, 10, 2850-2861	5.7	6
96	Life Cycle Assessment of Fungal-Based Composite Bricks. *Sustainability*, **2021**, 13, 11573	3.6	5
95	Metabolic Engineering of Filamentous Fungi **2021**, 765-801		3
94	Universal law for diffusive mass transport through mycelial networks. *Biotechnology and Bioengineering*, **2021**, 118, 930-943	4.9	8
93	Turning Inside Out: Filamentous Fungal Secretion and Its Applications in Biotechnology, Agriculture, and the Clinic. *Journal of Fungi (Basel, Switzerland)*, **2021**, 7,	5.6	3
92	Something old, something new: challenges and developments in Aspergillus niger biotechnology. *Essays in Biochemistry*, **2021**, 65, 213-224	7.6	6
91	Understanding and controlling filamentous growth of fungal cell factories: novel tools and opportunities for targeted morphology engineering. *Fungal Biology and Biotechnology*, **2021**, 8, 8	7.5	4
90	Beyond the Biosynthetic Gene Cluster Paradigm: Genome-Wide Coexpression Networks Connect Clustered and Unclustered Transcription Factors to Secondary Metabolic Pathways. *Microbiology Spectrum*, **2021**, 9, e0089821	8.9	2
89	Extrusion-based additive manufacturing of fungal-based composite materials using the tinder fungus Fomes fomentarius.. *Fungal Biology and Biotechnology*, **2021**, 8, 21	7.5	4
88	A Penicillium rubens platform strain for secondary metabolite production. *Scientific Reports*, **2020**, 10, 7630	4.9	13

87	Pilzbiotechnologie als Innovationsmotor. *BioSpektrum*, **2020**, 26, 339-339	0.1	
86	Vesicle transport and growth dynamics in Aspergillus niger: Microscale modeling of secretory vesicle flow and centerline extraction from confocal fluorescent data. *Biotechnology and Bioengineering*, **2020**, 117, 2875-2886	4.9	1
85	Comparative genomics of the aconidial Aspergillus niger strain LDM3 predicts genes associated with its high protein secretion capacity. *Applied Microbiology and Biotechnology*, **2020**, 104, 2623-2637	5.7	5
84	Identification of SclB, a Zn(II)Cys transcription factor involved in sclerotium formation in Aspergillus niger. *Fungal Genetics and Biology*, **2020**, 139, 103377	3.9	10
83	Spores Are Highly Resistant to Space Radiation. *Frontiers in Microbiology*, **2020**, 11, 560	5.7	18
82	Fungal Biotechnology in Space: Why and How?. *Grand Challenges in Biology and Biotechnology*, **2020** , 501-535	2.4	11
81	Ca-Zn-Ag Alginate Aerogels for Wound Healing Applications: Swelling Behavior in Simulated Human Body Fluids and Effect on Macrophages. *Polymers*, **2020**, 12,	4.5	8
80	Engineering cofactor metabolism for improved protein and glucoamylase production in Aspergillus niger. *Microbial Cell Factories*, **2020**, 19, 198	6.4	6
79	Growing a circular economy with fungal biotechnology: a white paper. *Fungal Biology and Biotechnology*, **2020**, 7, 5	7.5	97
78	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. *Biotechnology for Biofuels*, **2019**, 12, 149	7.8	22
77	Moulding the mould: understanding and reprogramming filamentous fungal growth and morphogenesis for next generation cell factories. *Biotechnology for Biofuels*, **2019**, 12, 77	7.8	63
76	An X-ray microtomography-based method for detailed analysis of the three-dimensional morphology of fungal pellets. *Biotechnology and Bioengineering*, **2019**, 116, 1355-1365	4.9	19
75	Updating genome annotation for the microbial cell factory Aspergillus niger using gene co-expression networks. *Nucleic Acids Research*, **2019**, 47, 559-569	20.1	36
74	Synthesis and mode of action studies of novel {2-(3-R-1H-1,2,4-triazol-5-yl)phenyl}amines to combat pathogenic fungi. *Archiv Der Pharmazie*, **2019**, 352, e1900092	4.3	0
73	From three-dimensional morphology to effective diffusivity in filamentous fungal pellets. *Biotechnology and Bioengineering*, **2019**, 116, 3360-3371	4.9	17
72	Practical guidance for the implementation of the CRISPR genome editing tool in filamentous fungi. *Fungal Biology and Biotechnology*, **2019**, 6, 15	7.5	23
71	Species-Specific Differences in the Susceptibility of Fungi to the Antifungal Protein AFP Depend on C-3 Saturation of Glycosylceramides. *MSphere*, **2019**, 4,	5	7
70	Functional exploration of co-expression networks identifies a nexus for modulating protein and citric acid titres in submerged culture. *Fungal Biology and Biotechnology*, **2019**, 6, 18	7.5	15

69	5S rRNA Promoter for Guide RNA Expression Enabled Highly Efficient CRISPR/Cas9 Genome Editing in. *ACS Synthetic Biology*, **2019**, 8, 1568-1574	5.7	63
68	is a superior expression host for the production of bioactive fungal cyclodepsipeptides. *Fungal Biology and Biotechnology*, **2018**, 5, 4	7.5	22
67	How a fungus shapes biotechnology: 100 years of research. *Fungal Biology and Biotechnology*, **2018**, 5, 13	7.5	104
66	Conditional Expression of the Small GTPase ArfA Impacts Secretion, Morphology, Growth, and Actin Ring Position in. *Frontiers in Microbiology*, **2018**, 9, 878	5.7	26
65	Antifungal Peptides of the AFP Family Revisited: Are These Cannibal Toxins?. *Microorganisms*, **2018**, 6,	4.9	18
64	Rocking Aspergillus: morphology-controlled cultivation of Aspergillus niger in a wave-mixed bioreactor for the production of secondary metabolites. *Microbial Cell Factories*, **2018**, 17, 128	6.4	21
63	Construction of an improved Aspergillus niger platform for enhanced glucoamylase secretion. *Microbial Cell Factories*, **2018**, 17, 95	6.4	31
62	From Axenic to Mixed Cultures: Technological Advances Accelerating a Paradigm Shift in Microbiology. *Trends in Microbiology*, **2018**, 26, 538-554	12.4	60
61	A community-driven reconstruction of the metabolic network. *Fungal Biology and Biotechnology*, **2018**, 5, 16	7.5	12
60	A Computational Modeling Approach Predicts Interaction of the Antifungal Protein AFP from with Fungal Membranes via Its Core Motif. *MSphere*, **2018**, 3,	5	12
59	Comparative genomics reveals high biological diversity and specific adaptations in the industrially and medically important fungal genus Aspergillus. *Genome Biology*, **2017**, 18, 28	18.3	261
58	The low affinity glucose transporter HxtB is also involved in glucose signalling and metabolism in Aspergillus nidulans. *Scientific Reports*, **2017**, 7, 45073	4.9	15
57	Harnessing fungal nonribosomal cyclodepsipeptide synthetases for mechanistic insights and tailored engineering. *Chemical Science*, **2017**, 8, 7834-7843	9.4	27
56	Polycistronic gene expression in Aspergillus niger. *Microbial Cell Factories*, **2017**, 16, 162	6.4	29
55	HisB as novel selection marker for gene targeting approaches in Aspergillus niger. *BMC Microbiology*, **2017**, 17, 57	4.5	10
54	In silico prediction and characterization of secondary metabolite biosynthetic gene clusters in the wheat pathogen Zymoseptoria tritici. *BMC Genomics*, **2017**, 18, 631	4.5	19
53	Rational biosynthetic approaches for the production of new-to-nature compounds in fungi. *Fungal Genetics and Biology*, **2016**, 89, 89-101	3.9	16
52	Tet-on, or Tet-off, that is the question: Advanced conditional gene expression in Aspergillus. *Fungal Genetics and Biology*, **2016**, 89, 72-83	3.9	52

51	A Transcriptome Meta-Analysis Proposes Novel Biological Roles for the Antifungal Protein AnAFP in Aspergillus niger. *PLoS ONE*, **2016**, 11, e0165755	3.7	25
50	Transcriptomic and molecular genetic analysis of the cell wall salvage response of Aspergillus niger to the absence of galactofuranose synthesis. *Cellular Microbiology*, **2016**, 18, 1268-84	3.9	19
49	Reprogramming the Biosynthesis of Cyclodepsipeptide Synthetases to Obtain New Enniatins and Beauvericins. *ChemBioChem*, **2016**, 17, 283-7	3.8	31
48	Highly active promoters and native secretion signals for protein production during extremely low growth rates in Aspergillus niger. *Microbial Cell Factories*, **2016**, 15, 145	6.4	13
47	GTP-binding protein Era: a novel gene target for biofuel production. *BMC Biotechnology*, **2015**, 15, 21	3.5	10
46	The Cell Factory Aspergillus Enters the Big Data Era: Opportunities and Challenges for Optimising Product Formation. *Advances in Biochemical Engineering/Biotechnology*, **2015**, 149, 91-132	1.7	28
45	A bifunctional enzyme from Rhodococcus erythropolis exhibiting secondary alcohol dehydrogenase-catalase activities. *Applied Microbiology and Biotechnology*, **2014**, 98, 9249-58	5.7	5
44	Molecular genetic analysis of vesicular transport in Aspergillus niger reveals partial conservation of the molecular mechanism of exocytosis in fungi. *Microbiology (United Kingdom)*, **2014**, 160, 316-329	2.9	22
43	Genetics, Genetic Manipulation, and Approaches to Strain Improvement of Filamentous Fungi **2014**, 318-329		16
42	Engineering of for the production of secondary metabolites. *Fungal Biology and Biotechnology*, **2014**, 1, 4	7.5	54
41	9 Transcriptomics of Industrial Filamentous Fungi: A New View on Regulation, Physiology, and Application **2014**, 209-232		1
40	The capacity of to sense and respond to cell wall stress requires at least three transcription factors: RlmA, MsnA and CrzA. *Fungal Biology and Biotechnology*, **2014**, 1, 5	7.5	10
39	Autophagy promotes survival in aging submerged cultures of the filamentous fungus Aspergillus niger. *Applied Microbiology and Biotechnology*, **2013**, 97, 8205-18	5.7	33
38	Nucleic and Protein Extraction Methods for Fungal Exopolysaccharide Producers **2013**, 427-434		3
37	Screening for Compounds Exerting Antifungal Activities **2013**, 225-230		
36	Morphologische Formfindung in Hyphenpilzen gleich oder ungleich?. *BioSpektrum*, **2013**, 19, 489-491	0.1	
35	Aspergillus **2013**, 1-51		5
34	The transcriptomic signature of RacA activation and inactivation provides new insights into the morphogenetic network of Aspergillus niger. *PLoS ONE*, **2013**, 8, e68946	3.7	23

33	The carbon starvation response of Aspergillus niger during submerged cultivation: insights from the transcriptome and secretome. *BMC Genomics*, **2012**, 13, 380	4.5	92
32	The transcriptomic fingerprint of glucoamylase over-expression in Aspergillus niger. *BMC Genomics*, **2012**, 13, 701	4.5	38
31	Using non-homologous end-joining-deficient strains for functional gene analyses in filamentous fungi. *Methods in Molecular Biology*, **2012**, 835, 133-50	1.4	61
30	The use of open source bioinformatics tools to dissect transcriptomic data. *Methods in Molecular Biology*, **2012**, 835, 311-31	1.4	8
29	Functional characterization of Rho GTPases in Aspergillus niger uncovers conserved and diverged roles of Rho proteins within filamentous fungi. *Molecular Microbiology*, **2011**, 79, 1151-67	4.1	91
28	Aspergillus as a multi-purpose cell factory: current status and perspectives. *Biotechnology Letters*, **2011**, 33, 469-76	3	115
27	Scleroglucan: biosynthesis, production and application of a versatile hydrocolloid. *Applied Microbiology and Biotechnology*, **2011**, 91, 937-47	5.7	70
26	New resources for functional analysis of omics data for the genus Aspergillus. *BMC Genomics*, **2011**, 12, 486	4.5	27
25	The Aspergillus giganteus antifungal protein AFPNN5353 activates the cell wall integrity pathway and perturbs calcium homeostasis. *BMC Microbiology*, **2011**, 11, 209	4.5	37
24	Fungal gene expression on demand: an inducible, tunable, and metabolism-independent expression system for Aspergillus niger. *Applied and Environmental Microbiology*, **2011**, 77, 2975-83	4.8	127
23	Survival strategies of yeast and filamentous fungi against the antifungal protein AFP. *Journal of Biological Chemistry*, **2011**, 286, 13859-68	5.4	45
22	The antifungal protein PAF interferes with PKC/MPK and cAMP/PKA signalling of Aspergillus nidulans. *Molecular Microbiology*, **2010**, 75, 294-307	4.1	40
21	The Aspergillus niger RmsA protein: A node in a genetic network?. *Communicative and Integrative Biology*, **2010**, 3, 195-7	1.7	7
20	The antifungal protein AFP from Aspergillus giganteus prevents secondary growth of different Fusarium species on barley. *Applied Microbiology and Biotechnology*, **2010**, 87, 617-24	5.7	14
19	Expanding the ku70 toolbox for filamentous fungi: establishment of complementation vectors and recipient strains for advanced gene analyses. *Applied Microbiology and Biotechnology*, **2010**, 87, 1463-73	5.7	115
18	Transcriptome sequencing and comparative transcriptome analysis of the scleroglucan producer Sclerotium rolfsii. *BMC Genomics*, **2010**, 11, 329	4.5	28
17	Reconstruction of signaling networks regulating fungal morphogenesis by transcriptomics. *Eukaryotic Cell*, **2009**, 8, 1677-91		39
16	Genetic and Metabolic Engineering in Filamentous Fungi **2009**, 377-392		3

15	Morphology and development in Aspergillus nidulans: a complex puzzle. *Fungal Genetics and Biology*, **2009**, 46 Suppl 1, S82-S92	3.9	45
14	Genetic engineering of filamentous fungi--progress, obstacles and future trends. *Biotechnology Advances*, **2008**, 26, 177-85	17.8	266
13	The polarisome component SpaA localises to hyphal tips of Aspergillus niger and is important for polar growth. *Fungal Genetics and Biology*, **2008**, 45, 152-64	3.9	22
12	Two zinc finger transcription factors, CrzA and SltA, are involved in cation homoeostasis and detoxification in Aspergillus nidulans. *Biochemical Journal*, **2008**, 414, 419-29	3.8	82
11	A small protein that fights fungi: AFP as a new promising antifungal agent of biotechnological value. *Applied Microbiology and Biotechnology*, **2008**, 78, 17-28	5.7	82
10	The antifungal protein AFP from Aspergillus giganteus inhibits chitin synthesis in sensitive fungi. *Applied and Environmental Microbiology*, **2007**, 73, 2128-34	4.8	70
9	Survival in the presence of antifungals: genome-wide expression profiling of Aspergillus niger in response to sublethal concentrations of caspofungin and fenpropimorph. *Journal of Biological Chemistry*, **2007**, 282, 32935-48	5.4	66
8	Highly efficient gene targeting in the Aspergillus niger kusA mutant. *Journal of Biotechnology*, **2007**, 128, 770-5	3.7	223
7	Application of hammerhead ribozymes in filamentous fungi. *Journal of Microbiological Methods*, **2006**, 65, 585-95	2.8	8
6	The antifungal protein AFP secreted by Aspergillus giganteus does not cause detrimental effects on certain mammalian cells. *Peptides*, **2006**, 27, 1717-25	3.8	28
5	New insights into the target site and mode of action of the antifungal protein of Aspergillus giganteus. *Research in Microbiology*, **2005**, 156, 47-56	4	47
4	Alkaline pH-induced up-regulation of the afp gene encoding the antifungal protein (AFP) of Aspergillus giganteus is not mediated by the transcription factor PacC: possible involvement of calcineurin. *Molecular Genetics and Genomics*, **2005**, 274, 295-306	3.1	7
3	Comparison of different transformation methods for Aspergillus giganteus. *Current Genetics*, **2003**, 43, 371-7	2.9	98
2	The influence of co-cultivation on expression of the antifungal protein in Aspergillus giganteus. *Journal of Basic Microbiology*, **2003**, 43, 68-74	2.7	26
1	New insights in the regulation of the afp gene encoding the antifungal protein of Aspergillus giganteus. *Current Genetics*, **2002**, 42, 36-42	2.9	19