Heike Bcking

List of Publications by Year in Descending Order

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Version: 2024-04-27

48 papers	3,785 citations	27 h-index	52 g-index
52 ext. papers	4,442 ext. citations	6.6 avg, IF	5.11 L-index

#	Paper	IF	Citations
48	sp. nov., a novel addition to the genus, isolated from the soil of a cultivated maize field. *International Journal of Systematic and Evolutionary Microbiology*, **2021**, 71,	2.2	1
47	sp. nov., isolated from the soil of a cultivated maize field. *International Journal of Systematic and Evolutionary Microbiology*, **2020**, 70, 3912-3920	2.2	2
46	Draft Genome Sequence of sp. Strain MC02, Isolated from a Sandy Loam Maize Soil. *Microbiology Resource Announcements*, **2019**, 8,	1.3	2
45	Beneficial Plant Microbe Interactions and Their Effect on Nutrient Uptake, Yield, and Stress Resistance of Soybeans **2019**,		3
44	Genotypic differences in phosphorus acquisition efficiency and root performance of cotton (Gossypium hirsutum) under low-phosphorus stress. *Crop and Pasture Science*, **2019**, 70, 344	2.2	8
43	Harnessing Soil Microbes to Improve Plant Phosphate Efficiency in Cropping Systems. *Agronomy*, **2019**, 9, 127	3.6	24
42	Nutrient demand and fungal access to resources control the carbon allocation to the symbiotic partners in tripartite interactions of Medicago truncatula. *Plant, Cell and Environment*, **2019**, 42, 270-284	8.4	35
41	Draft Genome Sequence of sp. Strain ONC3, a Novel Bacterial Species of the Family Isolated from Garden Soil. *Microbiology Resource Announcements*, **2019**, 8,	1.3	4
40	Draft Genome Sequence of sp. Strain DN04, Isolated from Cultivated Soil. *Microbiology Resource Announcements*, **2019**, 8,	1.3	1
39	The Ectomycorrhizal Fungus Produces Lipochitooligosaccharides and Uses the Common Symbiosis Pathway to Colonize Roots. *Plant Cell*, **2019**, 31, 2386-2410	11.6	33
38	Single-Cell RNA Sequencing of Plant-Associated Bacterial Communities. *Frontiers in Microbiology*, **2019**, 10, 2452	5.7	6
37	The ectomycorrhizal contribution to tree nutrition. *Advances in Botanical Research*, **2019**, 77-126	2.2	16
36	Metatranscriptomic Analysis and In Silico Approach Identified Mycoviruses in the Arbuscular Mycorrhizal Fungus spp. *Viruses*, **2018**, 10,	6.2	8
35	Inter- and Intraspecific Fungal Diversity in the Arbuscular Mycorrhizal Symbiosis **2017**, 253-274		1
34	Misconceptions on the application of biological market theory to the mycorrhizal symbiosis. *Nature Plants*, **2016**, 2, 16063	11.5	16
33	A toolbox of genes, proteins, metabolites and promoters for improving drought tolerance in soybean includes the metabolite coumestrol and stomatal development genes. *BMC Genomics*, **2016**, 17, 102	4.5	61
32	Host plant quality mediates competition between arbuscular mycorrhizal fungi. *Fungal Ecology*, **2016**, 20, 233-240	4.1	33

31	Common mycorrhizal networks and their effect on the bargaining power of the fungal partner in the arbuscular mycorrhizal symbiosis. *Communicative and Integrative Biology*, **2016**, 9, e1107684	1.7	33
30	Arbuscular mycorrhizal growth responses are fungal specific but do not differ between soybean genotypes with different phosphate efficiency. *Annals of Botany*, **2016**, 118, 11-21	4.1	23
29	High functional diversity within species of arbuscular mycorrhizal fungi is associated with differences in phosphate and nitrogen uptake and fungal phosphate metabolism. *Mycorrhiza*, **2015**, 25, 533-46	3.9	99
28	Role of Arbuscular Mycorrhizal Fungi in the Nitrogen Uptake of Plants: Current Knowledge and Research Gaps. *Agronomy*, **2015**, 5, 587-612	3.6	148
27	Fungal nutrient allocation in common mycorrhizal networks is regulated by the carbon source strength of individual host plants. *New Phytologist*, **2014**, 203, 646-656	9.8	176
26	Do fungivores trigger the transfer of protective metabolites from host plants to arbuscular mycorrhizal hyphae?. *Ecology*, **2013**, 94, 2019-29	4.6	26
25	Hiding in a crowd does diversity facilitate persistence of a low-quality fungal partner in the mycorrhizal symbiosis?. *Symbiosis*, **2013**, 59, 47-56	3	55
24	Spatial structure and interspecific cooperation: theory and an empirical test using the mycorrhizal mutualism. *American Naturalist*, **2012**, 179, E133-46	3.7	47
23	The role of carbon in fungal nutrient uptake and transport: implications for resource exchange in the arbuscular mycorrhizal symbiosis. *Plant Signaling and Behavior*, **2012**, 7, 1509-12	2.5	34
22	The Role of the Mycorrhizal Symbiosis in Nutrient Uptake of Plants and the Regulatory Mechanisms Underlying These Transport Processes **2012**,		35
21	Carbon availability triggers fungal nitrogen uptake and transport in arbuscular mycorrhizal symbiosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 2666-71	11.5	273
20	Reciprocal rewards stabilize cooperation in the mycorrhizal symbiosis. *Science*, **2011**, 333, 880-2	33.3	1058
19	Ectomycoremediation: An Eco-Friendly Technique for the Remediation of Polluted Sites. *Soil Biology*, **2011**, 209-229	1	11
18	Regulation of the nitrogen transfer pathway in the arbuscular mycorrhizal symbiosis: gene characterization and the coordination of expression with nitrogen flux. *Plant Physiology*, **2010**, 153, 1175-87	6.6	130
17	Seasonal and cell type specific expression of sulfate transporters in the phloem of Populus reveals tree specific characteristics for SO(4)(2-) storage and mobilization. *Plant Molecular Biology*, **2010**, 72, 499-517	4.6	29
16	Germinating spores of Glomus intraradices can use internal and exogenous nitrogen sources for de novo biosynthesis of amino acids. *New Phytologist*, **2009**, 184, 399-411	9.8	36
15	Triacylglyceride metabolism by Fusarium graminearum during colonization and sexual development on wheat. *Molecular Plant-Microbe Interactions*, **2009**, 22, 1492-503	3.6	48
14	Root exudates stimulate the uptake and metabolism of organic carbon in germinating spores of Glomus intraradices. *New Phytologist*, **2008**, 180, 684-695	9.8	41

13	Phosphate uptake, transport and transfer by the arbuscular mycorrhizal fungus Glomus intraradices is stimulated by increased carbohydrate availability. *New Phytologist*, **2005**, 165, 899-911	9.8	140
12	Nitrogen transfer in the arbuscular mycorrhizal symbiosis. *Nature*, **2005**, 435, 819-23	50.4	703
11	The fungus does not transfer carbon to or between roots in an arbuscular mycorrhizal symbiosis. *New Phytologist*, **2004**, 163, 617-627	9.8	77
10	Inhibition of a ubiquitously expressed pectin methyl esterase in Solanum tuberosum L. affects plant growth, leaf growth polarity, and ion partitioning. *Planta*, **2004**, 219, 32-40	4.7	48
9	Phosphate absorption and efflux of three ectomycorrhizal fungi as affected by external phosphate, cation and carbohydrate concentrations. *Mycological Research*, **2004**, 108, 599-609		15
8	Applied jasmonates accumulate extracellularly in tomato, but intracellularly in barley. *FEBS Letters*, **2004**, 562, 45-50	3.8	14
7	Uptake and transfer of nutrients in ectomycorrhizal associations: interactions between photosynthesis and phosphate nutrition. *Mycorrhiza*, **2003**, 13, 59-68	3.9	43
6	Ultrastructural element localization by EDXS in Empetrum nigrum. *Micron*, **2002**, 33, 339-51	2.3	14
5	The fungal sheath of ectomycorrhizal pine roots: an apoplastic barrier for the entry of calcium, magnesium, and potassium into the root cortex?. *Journal of Experimental Botany*, **2002**, 53, 1659-69	7	47
4	Biodegradation of aromatic compounds by white rot and ectomycorrhizal fungal species and the accumulation of chlorinated benzoic acid in ectomycorrhizal pine seedlings. *Chemosphere*, **2002**, 49, 297-306	8.4	20
3	Subcellular compartmentation of elements in non-mycorrhizal and mycorrhizal roots of Pinus sylvestris: an X-ray microanalytical study. I. The distribution of phosphate. *New Phytologist*, **2000**, 145, 311-320	9.8	40
2	Subcellular compartmentation of elements in non-mycorrhizal and mycorrhizal roots of Pinus sylvestris: an X-ray microanalytical study. II. The distribution of calcium, potassium and sodium. *New Phytologist*, **2000**, 145, 321-331	9.8	22
1	Elemental contents in vacuolar granules of ectomycorrhizal fungi measured by EELS and EDXS. A comparison of different methods and preparation techniques. *Micron*, **1998**, 29, 53-61	2.3	44