Stefan Hempel

List of Publications by Year
in descending order

39 papers	5,404 citations	218677 26 h-index	315739 38 g-index
41 all docs	41 docs citations	41 times ranked	8302 citing authors

#	Article	IF	Citations
1	Microplastics as an emerging threat to terrestrial ecosystems. Global Change Biology, 2018, 24, 1405-1416.	9.5	1,303
2	TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	9.5	1,038
3	Microplastic transport in soil by earthworms. Scientific Reports, 2017, 7, 1362.	3.3	546
4	Biological Flora of the British Isles: <i>Robinia pseudoacacia</i>. Journal of Ecology, 2013, 101, 1623-1640.	4.0	230
5	Differences in the species composition of arbuscular mycorrhizal fungi in spore, root and soil communities in a grassland ecosystem. Environmental Microbiology, 2007, 9, 1930-1938.	3.8	218
6	Nitrogen and phosphorus additions impact arbuscular mycorrhizal abundance and molecular diversity in a tropical montane forest. Global Change Biology, 2014, 20, 3646-3659.	9.5	194
7	Community assembly and coexistence in communities of arbuscular mycorrhizal fungi. ISME Journal, 2016, 10, 2341-2351.	9.8	167
8	Molecular diversity of arbuscular mycorrhizal fungi in relation to soil chemical properties and heavy metal contamination. Environmental Pollution, 2010, 158, 2757-2765.	7.5	152
9	Mycorrhizas in the Central European flora: relationships with plant life history traits and ecology. Ecology, 2013, 94, 1389-1399.	3.2	150
10	How Soil Biota Drive Ecosystem Stability. Trends in Plant Science, 2018, 23, 1057-1067.	8.8	145
11	Branching out: Towards a trait-based understanding of fungal ecology. Fungal Biology Reviews, 2015, 29, 34-41.	4.7	118
12	Landâ€use intensity and host plant identity interactively shape communities of arbuscular mycorrhizal fungi in roots of grassland plants. New Phytologist, 2015, 205, 1577-1586.	7.3	111
13	Highâ€resolution community profiling of arbuscular mycorrhizal fungi. New Phytologist, 2016, 212, 780-791.	7.3	104
14	Arbuscular mycorrhizal fungal communities are phylogenetically clustered at small scales. ISME Journal, 2014, 8, 2231-2242.	9.8	88
15	Specific bottomâ€“up effects of arbuscular mycorrhizal fungi across a plantâ€“herbivoreâ€“parasitoid system. Oecologia, 2009, 160, 267-277.	2.0	86
16	Linking the community structure of arbuscular mycorrhizal fungi and plants: a story of interdependence?. ISME Journal, 2017, 11, 1400-1411.	9.8	78
17	Mycorrhizal status helps explain invasion success of alien plant species. Ecology, 2017, 98, 92-102.	3.2	77
18	TaqMan Real-Time PCR Assays To Assess Arbuscular Mycorrhizal Responses to Field Manipulation of Grassland Biodiversity: Effects of Soil Characteristics, Plant Species Richness, and Functional Traits. Applied and Environmental Microbiology, 2010, 76, 3765-3775.	3.1	72

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19	Root traits are more than analogues of leaf traits: the case for diaspore mass. New Phytologist, 2017, 216, 1130-1139.	7.3	71
20	Determinants of rootâ€associated fungal communities within <scp>A</scp>steraceae in a semiâ€arid grassland. Journal of Ecology, 2014, 102, 425-436.	4.0	62
21	Opposing effects of nitrogen versus phosphorus additions on mycorrhizal fungal abundance along an elevational gradient in tropical montane forests. Soil Biology and Biochemistry, 2016, 94, 37-47.	8.8	61
22	Bridging reproductive and microbial ecology: a case study in arbuscular mycorrhizal fungi. ISME Journal, 2019, 13, 873-884.	9.8	43
23	Plant and soil biodiversity have nonâ€substitutable stabilising effects on biomass production. Ecology Letters, 2021, 24, 1582-1593.	6.4	43
24	Subsoil arbuscular mycorrhizal fungal communities in arable soil differ from those in topsoil. Soil Biology and Biochemistry, 2018, 117, 83-86.	8.8	38
25	Interactive effects of mycorrhizae and a root hemiparasite on plant community productivity and diversity. Oecologia, 2009, 159, 191-205.	2.0	33
26	Distribution patterns of arbuscular mycorrhizal and non-mycorrhizal plant species in Germany. Perspectives in Plant Ecology, Evolution and Systematics, 2016, 21, 78-88.	2.7	30
27	Moderate phosphorus additions consistently affect community composition of arbuscular mycorrhizal fungi in tropical montane forests in southern Ecuador. New Phytologist, 2020, 227, 1505-1518.	7.3	27
28	Plant community assembly at small scales: Spatial vs. environmental factors in a European grassland. Acta Oecologica, 2015, 63, 56-62.	1.1	21
29	The relative importance of ecological drivers of arbuscular mycorrhizal fungal distribution varies with taxon phylogenetic resolution. New Phytologist, 2019, 224, 936-948.	7.3	17
30	Passengers and drivers of arbuscular mycorrhizal fungal communities at different scales. New Phytologist, 2018, 220, 952-953.	7.3	16
31	Fungal Decision to Exploit or Explore Depends on Growth Rate. Microbial Ecology, 2018, 75, 289-292.	2.8	14
32	Evidence for Subsoil Specialization in Arbuscular Mycorrhizal Fungi. Frontiers in Ecology and Evolution, 2018, 6, .	2.2	14
33	The influence of environmental degradation processes on the arbuscular mycorrhizal fungal community associated with yew (Taxus baccata L.), an endangered tree species from Mediterranean ecosystems of Southeast Spain. Plant and Soil, 2013, 370, 355-366.	3.7	10
34	Widely distributed native and alien plant species differ in arbuscular mycorrhizal associations and related functional trait interactions. Ecography, 2018, 41, 1583-1593.	4.5	9
35	Arbuscular mycorrhizal fungal and soil microbial communities in African Dark Earths. FEMS Microbiology Ecology, 2018, 94, .	2.7	7
36	Spatial and niche-based ecological processes drive the distribution of endophytic Sebacinales in soil and root of grassland communities. FEMS Microbiology Ecology, 2016, 92, fiw079.	2.7	4

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37	Assessing soil ecosystem processes â€“ biodiversity relationships in a nature reserve in Central Europe. Plant and Soil, 2018, 424, 491-501.	3.7	3
38	Precipitation and temperature shape the biogeography of arbuscular mycorrhizal fungi across the Brazilian Caatinga. Journal of Biogeography, 2022, 49, 1137-1150.	3.0	3
39	Non-Mycorrhizal Fungal Presence Within Roots Increases Across an Urban Gradient in Berlin, Germany. Frontiers in Environmental Science, 2022, 10, .	3.3	1