S Emilia Hannula

List of Publications by Year in Descending Order

46 papers	1,633 citations	19 h-index	40 g-index
49 ext. papers	2,326 ext. citations	6.7 avg, IF	5.07 L-index

#	Paper	IF	Citations
46	Will fungi solve the carbon dilemma?. *Geoderma*, **2022**, 413, 115767	6.7	3
45	Local stability properties of complex, species-rich soil food webs with functional block structure. *Ecology and Evolution*, **2021**, 11, 16070-16081	2.8	1
44	Plant community legacy effects on nutrient cycling, fungal decomposer communities and decomposition in a temperate grassland. *Soil Biology and Biochemistry*, **2021**, 163, 108450	7.5	0
43	Evaluation of Phenolic Root Exudates as Stimulants of Saptrophic Fungi in the Rhizosphere. *Frontiers in Microbiology*, **2021**, 12, 644046	5.7	5
42	Steering the soil microbiome by repeated litter addition. *Journal of Ecology*, **2021**, 109, 2499-2513	6	6
41	Stimulated saprotrophic fungi in arable soil extend their activity to the rhizosphere and root microbiomes of crop seedlings. *Environmental Microbiology*, **2021**, 23, 6056-6073	5.2	2
40	Impact of Cellulose-Rich Organic Soil Amendments on Growth Dynamics and Pathogenicity of. *Microorganisms*, **2021**, 9,	4.9	3
39	Interkingdom plant-microbial ecological networks under selective and clear cutting of tropical rainforest. *Forest Ecology and Management*, **2021**, 491, 119182	3.9	2
38	Ecosystem coupling: A unifying framework to understand the functioning and recovery of ecosystems. *One Earth*, **2021**, 4, 951-966	8.1	6
37	How plant–soil feedbacks influence the next generation of plants. *Ecological Research*, **2021**, 36, 32-44	1.9	4
36	Inconsistent effects of agricultural practices on soil fungal communities across 12 European long-term experiments. *European Journal of Soil Science*, **2021**, 72, 1902	3.4	7
35	Persistence of plant-mediated microbial soil legacy effects in soil and inside roots. *Nature Communications*, **2021**, 12, 5686	17.4	13
34	Decomposing cover crops modify root-associated microbiome composition and disease tolerance of cash crop seedlings. *Soil Biology and Biochemistry*, **2021**, 160, 108343	7.5	5
33	Optimizing stand density for climate-smart forestry: A way forward towards resilient forests with enhanced carbon storage under extreme climate events. *Soil Biology and Biochemistry*, **2021**, 162, 108396	7.5	0
32	Microbiomes of a specialist caterpillar are consistent across different habitats but also resemble the local soil microbial communities. *Animal Microbiome*, **2020**, 2, 37	4.1	7
31	Home and away litter decomposition depends on the size fractions of the soil biotic community. *Soil Biology and Biochemistry*, **2020**, 144, 107783	7.5	8
30	Plant community composition steers grassland vegetation via soil legacy effects. *Ecology Letters*, **2020**, 23, 973-982	10	35

29	Steering root microbiomes of a commercial horticultural crop with plant-soil feedbacks. *Applied Soil Ecology*, **2020**, 150, 103468	5	16
28	Structure and ecological function of the soil microbiome affecting plant-soil feedbacks in the presence of a soil-borne pathogen. *Environmental Microbiology*, **2020**, 22, 660-676	5.2	17
27	The hidden potential of saprotrophic fungi in arable soil: Patterns of short-term stimulation by organic amendments. *Applied Soil Ecology*, **2020**, 147, 103434	5	33
26	Conditioning the soil microbiome through plant-soil feedbacks suppresses an aboveground insect pest. *New Phytologist*, **2020**, 226, 595-608	9.8	33
25	Rhizosphere fungi actively assimilating plant-derived carbon in a grassland soil. *Fungal Ecology*, **2020**, 48, 100988	4.1	10
24	Above-belowground linkages of functionally dissimilar plant communities and soil properties in a grassland experiment. *Ecosphere*, **2020**, 11, e03246	3.1	4
23	Soil inoculation alters the endosphere microbiome of chrysanthemum roots and leaves. *Plant and Soil*, **2020**, 455, 107-119	4.2	3
22	Soil fungal guilds as important drivers of the plant richness-productivity relationship. *New Phytologist*, **2020**, 226, 947-949	9.8	6
21	Taking plant–soil feedbacks to the field in a temperate grassland. *Basic and Applied Ecology*, **2019**, 40, 30-42	3.2	11
20	Foliar-feeding insects acquire microbiomes from the soil rather than the host plant. *Nature Communications*, **2019**, 10, 1254	17.4	61
19	A methodological framework to embrace soil biodiversity. *Soil Biology and Biochemistry*, **2019**, 136, 107536	7.5	47
18	Time after Time: Temporal Variation in the Effects of Grass and Forb Species on Soil Bacterial and Fungal Communities. *MBio*, **2019**, 10,	7.8	30
17	Removal of soil biota alters soil feedback effects on plant growth and defense chemistry. *New Phytologist*, **2019**, 221, 1478-1491	9.8	26
16	Fungal Biodiversity and Their Role in Soil Health. *Frontiers in Microbiology*, **2018**, 9, 707	5.7	174
15	Priming of soil organic matter: Chemical structure of added compounds is more important than the energy content. *Soil Biology and Biochemistry*, **2017**, 108, 41-54	7.5	61
14	Soil networks become more connected and take up more carbon as nature restoration progresses. *Nature Communications*, **2017**, 8, 14349	17.4	309
13	Shifts in rhizosphere fungal community during secondary succession following abandonment from agriculture. *ISME Journal*, **2017**, 11, 2294-2304	11.9	109
12	Ecological network analysis reveals the inter-connection between soil biodiversity and ecosystem function as affected by land use across Europe. *Applied Soil Ecology*, **2016**, 97, 112-124	5	123

11	Primer Sets Developed for Functional Genes Reveal Shifts in Functionality of Fungal Community in Soils. *Frontiers in Microbiology*, **2016**, 7, 1897	5.7	8
10	Selecting cost effective and policy-relevant biological indicators for European monitoring of soil biodiversity and ecosystem function. *Ecological Indicators*, **2016**, 69, 213-223	5.8	59
9	Soil conditions and land use intensification effects on soil microbial communities across a range of European field sites. *Soil Biology and Biochemistry*, **2015**, 88, 403-413	7.5	101
8	Do genetic modifications in crops affect soil fungi? a review. *Biology and Fertility of Soils*, **2014**, 50, 433-446	6.1	29
7	Effect of genetic modification of potato starch on decomposition of leaves and tubers and on fungal decomposer communities. *Soil Biology and Biochemistry*, **2013**, 58, 88-98	7.5	8
6	Different selective effects on rhizosphere bacteria exerted by genetically modified versus conventional potato lines. *PLoS ONE*, **2013**, 8, e67948	3.7	25
5	13C pulse-labeling assessment of the community structure of active fungi in the rhizosphere of a genetically starch-modified potato (Solanum tuberosum) cultivar and its parental isoline. *New Phytologist*, **2012**, 194, 784-799	9.8	96
4	Matgrass sward plant species benefit from soil organisms. *Applied Soil Ecology*, **2012**, 62, 61-70	5	9
3	A 3-year study reveals that plant growth stage, season and field site affect soil fungal communities while cultivar and GM-trait have minor effects. *PLoS ONE*, **2012**, 7, e33819	3.7	51
2	In situ dynamics of soil fungal communities under different genotypes of potato, including a genetically modified cultivar. *Soil Biology and Biochemistry*, **2010**, 42, 2211-2223	7.5	58
1	Removal by sorption and in situ biodegradation of oil spills limits damage to marine biota: a laboratory simulation. *Ambio*, **2007**, 36, 173-9	6.5	9