Matthias C Rillig

List of Publications by Year
in descending order

415 papers	47,976 citations	1614 105 h-index	2280 200 g-index
448 all docs	448 docs citations	448 times ranked	31795 citing authors

#	Article	IF	Citations
1	Tire wear particles: An emerging threat to soil health. Critical Reviews in Environmental Science and Technology, 2023, 53, 239-257.	12.8	37
2	Effects of perfluoroalkyl and polyfluoroalkyl substances (PFAS) on soil structure and function. Soil Ecology Letters, 2023, 5, 108-117.	4.5	9
3	Functional, not Taxonomic, Composition of Soil Fungi Reestablishes to Pre-mining Initial State After 52 Years of Recultivation. Microbial Ecology, 2023, 86, 213-223.	2.8	4
4	Microplastic fiber and drought effects on plants and soil are only slightly modified by arbuscular mycorrhizal fungi. Soil Ecology Letters, 2022, 4, 32-44.	4.5	49
5	Research trends of microplastics in the soil environment: Comprehensive screening of effects. Soil Ecology Letters, 2022, 4, 109-118.	4.5	19
6	Tire abrasion particles negatively affect plant growth even at low concentrations and alter soil biogeochemical cycling. Soil Ecology Letters, 2022, 4, 409-415.	4.5	28
7	Soil plastispheres as hotspots of antibiotic resistance genes and potential pathogens. ISME Journal, 2022, 16, 521-532.	9.8	148
8	Community response of arbuscular mycorrhizal fungi to extreme drought in a coldâ€temperate grassland. New Phytologist, 2022, 234, 2003-2017.	7.3	35
9	Plant herbivore protection by arbuscular mycorrhizas: a role for fungal diversity?. New Phytologist, 2022, 233, 1022-1031.	7.3	35
10	Similarity of anthropogenic stressors is multifaceted and scale dependent. Natural Sciences, 2022, 2, .	2.1	10
11	Effects of microplastics on crop nutrition in fertile soils and interaction with arbuscular mycorrhizal fungi. , 2022, 1, 66-72.		10
12	Diversity of archaea and niche preferences among putative ammoniaâ€oxidizing Nitrososphaeria dominating across European arable soils. Environmental Microbiology, 2022, 24, 341-356.	3.8	15
13	Evolutionary betâ€hedging in arbuscular mycorrhizaâ€associating angiosperms. New Phytologist, 2022, 233, 1984-1987.	7.3	14
14	Network traits predict ecological strategies in fungi. ISME Communications, 2022, 2, .	4.2	18
15	Soil conditions drive belowâ€ground trait space in temperate agricultural grasslands. Journal of Ecology, 2022, 110, 1189-1200.	4.0	5
16	Opportunities and Risks of the â€œMetaverseâ€• For Biodiversity and the Environment. Environmental Science & Technology, 2022, 56, 4721-4723.	10.0	18
17	Polyester microplastic fibers in soil increase nitrogen loss via leaching and decrease plant biomass production and N uptake. Environmental Research Letters, 2022, 17, 054012.	5.2	41
18	Arbuscular Mycorrhiza Reduced Nitrogen Loss via Runoff, Leaching, and Emission of N2O and NH3 from Microcosms of Paddy Fields. Water, Air, and Soil Pollution, 2022, 233, 1.	2.4	0

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19	Non-Mycorrhizal Fungal Presence Within Roots Increases Across an Urban Gradient in Berlin, Germany. Frontiers in Environmental Science, 2022, 10, .	3.3	1
20	Soil fungi invest into asexual sporulation under resource scarcity, but trait spaces of individual isolates are unique. Environmental Microbiology, 2022, 24, 2962-2978.	3.8	6
21	Precipitation and temperature shape the biogeography of arbuscular mycorrhizal fungi across the Brazilian Caatinga. Journal of Biogeography, 2022, 49, 1137-1150.	3.0	3
22	Concentrationâ€dependent response of soil parameters and functions to trifluoroacetic acid. European Journal of Soil Science, 2022, 73, .	3.9	3
23	Drought legacy effects on root morphological traits and plant biomass via soil biota feedback. New Phytologist, 2022, 236, 222-234.	7.3	12
24	Broaden chemicals scope in biodiversity targets. Science, 2022, 376, 1280-1280.	12.6	10
25	Proximal and distal mechanisms through which arbuscular mycorrhizal associations alter terrestrial denitrification. Plant and Soil, 2022, 476, 315-336.	3.7	7
26	Polyester microplastic fibers affect soil physical properties and erosion as a function of soil type. Soil, 2022, 8, 421-435.	4.9	21
27	Agricultural management and pesticide use reduce the functioning of beneficial plant symbionts. Nature Ecology and Evolution, 2022, 6, 1145-1154.	7.8	54
28	Soil biodiversity enhances the persistence of legumes under climate change. New Phytologist, 2021, 229, 2945-2956.	7.3	28
29	Soil fungal mycelia have unexpectedly flexible stoichiometric C:N and C:P ratios. Ecology Letters, 2021, 24, 208-218.	6.4	41
30	Belowâ€•and aboveground traits explain local abundance, and regional, continental and global occurrence frequencies of grassland plants. Oikos, 2021, 130, 110-120.	2.7	15
31	Impact of high carbon amendments and pre-crops on soil bacterial communities. Biology and Fertility of Soils, 2021, 57, 305-317.	4.3	4
32	Mycorrhizal suppression and phosphorus addition influence the stability of plant community composition and function in a temperate steppe. Oikos, 2021, 130, 354-365.	2.7	6
33	Global root traits (GRooT) database. Global Ecology and Biogeography, 2021, 30, 25-37.	5.8	90
34	Tracking, targeting, and conserving soil biodiversity. Science, 2021, 371, 239-241.	12.6	151
35	Effects of microplastics and drought on soil ecosystem functions and multifunctionality. Journal of Applied Ecology, 2021, 58, 988-996.	4.0	124
36	Ten simple rules for hosting artists in a scientific lab. PLoS Computational Biology, 2021, 17, e1008675.	3.2	16

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37	Stress priming affects fungal competition â€•evidence from a combined experimental and modelling study. Environmental Microbiology, 2021, 23, 5934-5945.	3.8	5
38	Potential Effects of Microplastic on Arbuscular Mycorrhizal Fungi. Frontiers in Plant Science, 2021, 12, 626709.	3.6	41
39	Microplastic Shape, Polymer Type, and Concentration Affect Soil Properties and Plant Biomass. Frontiers in Plant Science, 2021, 12, 616645.	3.6	244
40	The Global Plastic Toxicity Debt. Environmental Science & Technology, 2021, 55, 2717-2719.	10.0	72
41	Microplastic fibers affect dynamics and intensity of CO2 and N2O fluxes from soil differently. Microplastics and Nanoplastics, 2021, 1, .	8.8	51
42	Classifying human influences on terrestrial ecosystems. Global Change Biology, 2021, 27, 2273-2278.	9.5	37
43	Microplastic effects on carbon cycling processes in soils. PLoS Biology, 2021, 19, e3001130.	5.6	220
44	Effects of Microplastic Fibers on Soil Aggregation and Enzyme Activities Are Organic Matter Dependent. Frontiers in Environmental Science, 2021, 9, .	3.3	65
45	Fungusâ€"bacterium associations are widespread in fungal cultures isolated from a semi-arid natural grassland in Germany. FEMS Microbiology Ecology, 2021, 97, .	2.7	2
46	Indirect Effects of Microplastic-Contaminated Soils on Adjacent Soil Layers: Vertical Changes in Soil Physical Structure and Water Flow. Frontiers in Environmental Science, 2021, 9, .	3.3	19
47	Global Plastic Pollution Observation System to Aid Policy. Environmental Science & Technology, 2021, 55, 7770-7775.	10.0	59
48	Microplastics have shape- and polymer-dependent effects on soil aggregation and organic matter loss â€" an experimental and meta-analytical approach. Microplastics and Nanoplastics, 2021, 1, .	8.8	53
49	Global data on earthworm abundance, biomass, diversity and corresponding environmental properties. Scientific Data, 2021, 8, 136.	5.3	29
50	Plant and soil biodiversity have nonâ€substitutable stabilising effects on biomass production. Ecology Letters, 2021, 24, 1582-1593.	6.4	43
51	Microplastics Increase Soil pH and Decrease Microbial Activities as a Function of Microplastic Shape, Polymer Type, and Exposure Time. Frontiers in Environmental Science, 2021, 9, .	3.3	143
52	Legacy effects of preâ€crop plant functional group on fungal root symbionts of barley. Ecological Applications, 2021, 31, e02378.	3.8	6
53	Soil biota shift with land use change from pristine rainforest and Savannah (Cerrado) to agriculture in southern Amazonia. Molecular Ecology, 2021, 30, 4899-4912.	3.9	10
54	Largeâ€scale drivers of relationships between soil microbial properties and organic carbon across Europe. Global Ecology and Biogeography, 2021, 30, 2070-2083.	5.8	32

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55	Microbial self-recycling and biospherics. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2113148118.	7.1	0
56	Mechanisms underpinning nonadditivity of global change factor effects in the plantâ€“soil system. New Phytologist, 2021, 232, 1535-1539.	7.3	19
57	Time-Dependent Toxicity of Tire Particles on Soil Nematodes. Frontiers in Environmental Science, 2021, 9, .	3.3	12
58	Scientists need to better communicate the links between pandemics and global environmental change. Nature Ecology and Evolution, 2021, 5, 1466-1467.	7.8	9
59	Drought induces shifts in soil fungal communities that can be linked to root traits across 24 plant species. New Phytologist, 2021, 232, 1917-1929.	7.3	35
60	Crop cover is more important than rotational diversity for soil multifunctionality and cereal yields in European cropping systems. Nature Food, 2021, 2, 28-37.	14.0	120
61	Fungal response to abruptly or gradually delivered antifungal agent amphotericin B is growth stage dependent. Environmental Microbiology, 2021, 23, 7701-7709.	3.8	2
62	Mycorrhizal technologies for an agriculture of the middle. Plants People Planet, 2021, 3, 454-461.	3.3	6
63	Local stability properties of complex, speciesâ€rich soil food webs with functional block structure. Ecology and Evolution, 2021, 11, 16070-16081.	1.9	11
64	Soil Physico-Chemical Properties Change Across an Urbanity Gradient in Berlin. Frontiers in Environmental Science, 2021, 9, .	3.3	4
65	Science-informed salmon conservation strategies. Science, 2021, 374, 700-700.	12.6	1
66	Microplastics Reduce the Negative Effects of Litter-Derived Plant Secondary Metabolites on Nematodes in Soil. Frontiers in Environmental Science, 2021, 9, .	3.3	10
67	Machine learning with the hierarchyâ€ofâ€hypotheses (HoH) approach discovers novel pattern in studies on biological invasions. Research Synthesis Methods, 2020, 11, 66-73.	8.7	9
68	Towards an integrative understanding of soil biodiversity. Biological Reviews, 2020, 95, 350-364.	10.4	97
69	Response to the Editor: Assessing the robustness of communities and ecosystems in global change research. Global Change Biology, 2020, 26, e4-e5.	9.5	3
70	Arbuscular mycorrhiza contributes to the control of phosphorus loss in paddy fields. Plant and Soil, 2020, 447, 623-636.	3.7	22
71	Arbuscular mycorrhiza has little influence on N2O potential emissions compared to plant diversity in experimental plant communities. FEMS Microbiology Ecology, 2020, 96, .	2.7	9
72	TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	9.5	1,038

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73	Neighbours of arbuscularâ€mycorrhiza associating trees are colonized more extensively by arbuscular mycorrhizal fungi than their conspecifics in ectomycorrhiza dominated stands. New Phytologist, 2020, 227, 10-13.	7.3	17
74	Effects of Different Microplastics on Nematodes in the Soil Environment: Tracking the Extractable Additives Using an Ecotoxicological Approach. Environmental Science & Technology, 2020, 54, 13868-13878.	10.0	118
75	Plastic and plants. Nature Sustainability, 2020, 3, 887-888.	23.7	40
76	Growth rate trades off with enzymatic investment in soil filamentous fungi. Scientific Reports, 2020, 10, 11013.	3.3	19
77	Root trait responses to drought are more heterogeneous than leaf trait responses. Functional Ecology, 2020, 34, 2224-2235.	3.6	65
78	Rate of environmental change across scales in ecology. Biological Reviews, 2020, 95, 1798-1811.	10.4	26
79	Blind spots in global soil biodiversity and ecosystem function research. Nature Communications, 2020, 11, 3870.	12.8	192
80	Definition of Core Bacterial Taxa in Different Root Compartments of Dactylis glomerata, Grown in Soil under Different Levels of Land Use Intensity. Diversity, 2020, 12, 392.	1.7	7
81	The concept and future prospects of soil health. Nature Reviews Earth & Environment, 2020, 1, 544-553.	29.7	486
82	Excluding arbuscular mycorrhiza lowers variability in soil respiration but slows down recovery from perturbations. Ecosphere, 2020, 11, e03308.	2.2	1
83	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
84	Clear Language for Ecosystem Management in the Anthropocene: A Reply to Bridgewater and Hemming. BioScience, 2020, 70, 374-376.	4.9	2
85	SMART Research: Toward Interdisciplinary River Science in Europe. Frontiers in Environmental Science, 2020, 8, .	3.3	6
86	Nitrogen Type and Availability Drive Mycorrhizal Effects on Wheat Performance, Nitrogen Uptake and Recovery, and Production Sustainability. Frontiers in Plant Science, 2020, 11, 760.	3.6	23
87	Mimicking climate warming effects on Alaskan soil microbial communities via gradual temperature increase. Scientific Reports, 2020, 10, 8533.	3.3	9
88	Traitâ€based approaches reveal fungal adaptations to nutrientâ€limiting conditions. Environmental Microbiology, 2020, 22, 3548-3560.	3.8	18
89	Soil Saprobic Fungi Differ in Their Response to Gradually and Abruptly Delivered Copper. Frontiers in Microbiology, 2020, 11, 1195.	3.5	7
90	Microplastic Research Should Embrace the Complexity of Secondary Particles. Environmental Science & Technology, 2020, 54, 7751-7753.	10.0	68

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91	Myristate and the ecology of AM fungi: significance, opportunities, applications and challenges. New Phytologist, 2020, 227, 1610-1614.	7.3	13
92	Suitability of Mycorrhiza-Defective Rice and Its Progenitor for Studies on the Control of Nitrogen Loss in Paddy Fields via Arbuscular Mycorrhiza. Frontiers in Microbiology, 2020, 11, 186.	3.5	6
93	The fungal collaboration gradient dominates the root economics space in plants. Science Advances, 2020, 6, .	10.3	377
94	Microplastic in terrestrial ecosystems. Science, 2020, 368, 1430-1431.	12.6	549
95	Movementâ€mediated community assembly and coexistence. Biological Reviews, 2020, 95, 1073-1096.	10.4	62
96	Effects of Microplastic Fibers and Drought on Plant Communities. Environmental Science & Technology, 2020, 54, 6166-6173.	10.0	244
97	Global ecosystem thresholds driven by aridity. Science, 2020, 367, 787-790.	12.6	526
98	Ten simple rules for increased lab resilience. PLoS Computational Biology, 2020, 16, e1008313.	3.2	5
99	Diversity of Growth Responses of Soil Saprobic Fungi to Recurring Heat Events. Frontiers in Microbiology, 2020, 11, 1326.	3.5	7
100	Protists and collembolans alter microbial community composition, CÂdynamics and soil aggregation in simplified consumerâ€“prey systems. Biogeosciences, 2020, 17, 4961-4980.	3.3	16
101	The artist who co-authored a paper and expanded my professional network. Nature, 2020, , .	27.8	2
102	Research experience modifies how participants profit from journal clubs in academia. Journal of Biological Education, 2019, 53, 327-332.	1.5	1
103	Towards the development of general rules describing landscape heterogeneityâ€“multifunctionality relationships. Journal of Applied Ecology, 2019, 56, 168-179.	4.0	42
104	Biogeographical constraints in Glomeromycotinan distribution across forest habitats in China. Journal of Ecology, 2019, 107, 684-695.	4.0	10
105	Sounds of Soil: A New World of Interactions under Our Feet?. Soil Systems, 2019, 3, 45.	2.6	27
106	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
107	Functional Traits and Spatio-Temporal Structure of a Major Group of Soil Protists (Rhizaria:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	3.5	82
108	Shaping Up: Toward Considering the Shape and Form of Pollutants. Environmental Science & Technology, 2019, 53, 7925-7926.	10.0	58

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109	Tradeoffs in hyphal traits determine mycelium architecture in saprobic fungi. Scientific Reports, 2019, 9, 14152.	3.3	22
110	Collembola laterally move biochar particles. PLoS ONE, 2019, 14, e0224179.	2.5	6
111	The role of multiple global change factors in driving soil functions and microbial biodiversity. Science, 2019, 366, 886-890.	12.6	437
112	Global distribution of earthworm diversity. Science, 2019, 366, 480-485.	12.6	248
113	Increasing Temperature and Microplastic Fibers Jointly Influence Soil Aggregation by Saprobic Fungi. Frontiers in Microbiology, 2019, 10, 2018.	3.5	60
114	Towards an Integrative, Eco-Evolutionary Understanding of Ecological Novelty: Studying and Communicating Interlinked Effects of Global Change. BioScience, 2019, 69, 888-899.	4.9	55
115	Testing Contrast Agents to Improve Micro Computerized Tomography (Î¼CT) for Spatial Location of Organic Matter and Biological Material in Soil. Frontiers in Environmental Science, 2019, 7, .	3.3	13
116	Microbial biospherics: The experimental study of ecosystem function and evolution. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11093-11098.	7.1	16
117	Latitudinal constraints in responsiveness of plants to arbuscular mycorrhiza: the â€˜sunâ€worshipperâ€™ hypothesis. New Phytologist, 2019, 224, 552-556.	7.3	12
118	Basic Principles of Temporal Dynamics. Trends in Ecology and Evolution, 2019, 34, 723-733.	8.7	107
119	Subsoil Arbuscular Mycorrhizal Fungi for Sustainability and Climate-Smart Agriculture: A Solution Right Under Our Feet?. Frontiers in Microbiology, 2019, 10, 744.	3.5	63
120	Abiotic and Biotic Factors Influencing the Effect of Microplastic on Soil Aggregation. Soil Systems, 2019, 3, 21.	2.6	89
121	Expanding the toolbox of nutrient limitation studies: A novel method of soil microbial inâ€growth bags to evaluate nutrient demands in tropical forests. Functional Ecology, 2019, 33, 1536-1548.	3.6	5
122	Microplastics Can Change Soil Properties and Affect Plant Performance. Environmental Science & Technology, 2019, 53, 6044-6052.	10.0	995
123	Microplastic effects on plants. New Phytologist, 2019, 223, 1066-1070.	7.3	460
124	Distinct communities of Cercozoa at different soil depths in a temperate agricultural field. FEMS Microbiology Ecology, 2019, 95, .	2.7	21
125	Visualizing the dynamics of soil aggregation as affected by arbuscular mycorrhizal fungi. ISME Journal, 2019, 13, 1639-1646.	9.8	91
126	Exploring the agricultural parameter space for crop yield and sustainability. New Phytologist, 2019, 223, 517-519.	7.3	10

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127	The role of active movement in fungal ecology and community assembly. Movement Ecology, 2019, 7, 36.	2.8	18
128	Evolutionary implications of microplastics for soil biota. Environmental Chemistry, 2019, 16, 3.	1.5	114
129	Bridging reproductive and microbial ecology: a case study in arbuscular mycorrhizal fungi. ISME Journal, 2019, 13, 873-884.	9.8	43
130	Arbuscular Mycorrhizal Fungi Alter the Community Structure of Ammonia Oxidizers at High Fertility via Competition for Soil NH4+. Microbial Ecology, 2019, 78, 147-158.	2.8	35
131	Contrasting latitudinal diversity and co-occurrence patterns of soil fungi and plants in forest ecosystems. Soil Biology and Biochemistry, 2019, 131, 100-110.	8.8	71
132	Why farmers should manage the arbuscular mycorrhizal symbiosis. New Phytologist, 2019, 222, 1171-1175.	7.3	164
133	Do soil bacterial communities respond differently to abrupt or gradual additions of copper?. FEMS Microbiology Ecology, 2019, 95, .	2.7	5
134	Arbuscular mycorrhizal fungi increase grain yields: a metaâ€analysis. New Phytologist, 2019, 222, 543-555.	7.3	187
135	Fungal Traits Important for Soil Aggregation. Frontiers in Microbiology, 2019, 10, 2904.	3.5	77
136	Arbuscular mycorrhizal fungal and soil microbial communities in African Dark Earths. FEMS Microbiology Ecology, 2018, 94, .	2.7	7
137	Intransitive competition is common across five major taxonomic groups and is driven by productivity, competitive rank and functional traits. Journal of Ecology, 2018, 106, 852-864.	4.0	36
138	Biodiversity of arbuscular mycorrhizal fungi and ecosystem function. New Phytologist, 2018, 220, 1059-1075.	7.3	288
139	Impacts of domestication on the arbuscular mycorrhizal symbiosis of 27 crop species. New Phytologist, 2018, 218, 322-334.	7.3	116
140	Assessing soil ecosystem processes â€" biodiversity relationships in a nature reserve in Central Europe. Plant and Soil, 2018, 424, 491-501.	3.7	3
141	Application of the microbial community coalescence concept to riverine networks. Biological Reviews, 2018, 93, 1832-1845.	10.4	92
142	Nutrient limitation of soil microbial processes in tropical forests. Ecological Monographs, 2018, 88, 4-21.	5.4	261
143	Do fungi need salt licks? No evidence for fungal contribution to the Sodium Ecosystem Respiration Hypothesis based on lab and field experiments in Southern Ecuador. Fungal Ecology, 2018, 32, 18-28.	1.6	2
144	Microplastics as an emerging threat to terrestrial ecosystems. Global Change Biology, 2018, 24, 1405-1416.	9.5	1,303

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145	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
146	Subsoil arbuscular mycorrhizal fungal communities in arable soil differ from those in topsoil. Soil Biology and Biochemistry, 2018, 117, 83-86.	8.8	38
147	Soil Biodiversity Effects from Field to Fork. Trends in Plant Science, 2018, 23, 17-24.	8.8	44
148	Predictors of Arbuscular Mycorrhizal Fungal Communities in the Brazilian Tropical Dry Forest. Microbial Ecology, 2018, 75, 447-458.	2.8	22
149	Fungal Decision to Exploit or Explore Depends on Growth Rate. Microbial Ecology, 2018, 75, 289-292.	2.8	14
150	Growing Research Networks on Mycorrhizae for Mutual Benefits. Trends in Plant Science, 2018, 23, 975-984.	8.8	51
151	How Soil Biota Drive Ecosystem Stability. Trends in Plant Science, 2018, 23, 1057-1067.	8.8	145
152	Microplastic Disguising As Soil Carbon Storage. Environmental Science & Technology, 2018, 52, 6079-6080.	10.0	249
153	Impacts of Microplastics on the Soil Biophysical Environment. Environmental Science & Technology, 2018, 52, 9656-9665.	10.0	930
154	Evidence for Subsoil Specialization in Arbuscular Mycorrhizal Fungi. Frontiers in Ecology and Evolution, 2018, 6, .	2.2	14
155	Responsiveness of plants to mycorrhiza regulates coexistence. Journal of Ecology, 2018, 106, 1864-1875.	4.0	26
156	Microplastic and soil protists: A call for research. Environmental Pollution, 2018, 241, 1128-1131.	7.5	147
157	Plant diversity maintains multiple soil functions in future environments. ELife, 2018, 7, .	6.0	54
158	Facilitation between woody and herbaceous plants that associate with arbuscular mycorrhizal fungi in temperate European forests. Ecology and Evolution, 2017, 7, 1181-1189.	1.9	24
159	Where less may be more: how the rare biosphere pulls ecosystems strings. ISME Journal, 2017, 11, 853-862.	9.8	857
160	Linking the community structure of arbuscular mycorrhizal fungi and plants: a story of interdependence?. ISME Journal, 2017, 11, 1400-1411.	9.8	78
161	Plant diversity represents the prevalent determinant of soil fungal community structure across temperate grasslands in northern China. Soil Biology and Biochemistry, 2017, 110, 12-21.	8.8	202
162	Soil aggregates as massively concurrent evolutionary incubators. ISME Journal, 2017, 11, 1943-1948.	9.8	206

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163	Specialist nectar-yeasts decline with urbanization in Berlin. Scientific Reports, 2017, 7, 45315.	3.3	12
164	Priorities for research in soil ecology. Pedobiologia, 2017, 63, 1-7.	1.2	64
165	Microplastic transport in soil by earthworms. Scientific Reports, 2017, 7, 1362.	3.3	546
166	Transport of microplastics by two collembolan species. Environmental Pollution, 2017, 225, 456-459.	7.5	279
167	Mycorrhizas and Soil Aggregation. , 2017, , 241-262.		34
168	Soil biota contributions to soil aggregation. Nature Ecology and Evolution, 2017, 1, 1828-1835.	7.8	257
169	Environmental Filtering Is a Relic. A Response to Cadotte and Tucker. Trends in Ecology and Evolution, 2017, 32, 882-884.	8.7	17
170	Root traits are more than analogues of leaf traits: the case for diaspore mass. New Phytologist, 2017, 216, 1130-1139.	7.3	71
171	Historical biome distribution and recent human disturbance shape the diversity of arbuscular mycorrhizal fungi. New Phytologist, 2017, 216, 227-238.	7.3	66
172	Physical environmental controls on riparian root profiles associated with black poplar (<scp><i>Populus nigra</i></scp> L.) along the Tagliamento River, Italy. Earth Surface Processes and Landforms, 2017, 42, 1262-1273.	2.5	14
173	Succession of arbuscular mycorrhizal fungi along a 52-years agricultural recultivation chronosequence. FEMS Microbiology Ecology, 2017, 93, .	2.7	19
174	Microbial Ecology: Community Coalescence Stirs Things Up. Current Biology, 2017, 27, R1280-R1282.	3.9	25
175	Applying allometric theory to fungi. ISME Journal, 2017, 11, 2175-2180.	9.8	10
176	Underground riparian wood: Reconstructing the processes influencing buried stem and coarse root structures of Black Poplar (Populus nigra L.). Geomorphology, 2017, 279, 199-208.	2.6	15
177	Mycorrhizal status helps explain invasion success of alien plant species. Ecology, 2017, 98, 92-102.	3.2	77
178	Potential Environmental Impacts of an â€œUnderground Revolutionâ€: A Response to Bender et al.. Trends in Ecology and Evolution, 2017, 32, 8-10.	8.7	18
179	Underground riparian wood: Buried stem and coarse root structures of Black Poplar (Populus nigra) Tj ETQq1 1 0.784314 rgBT /Overl	2.6	19
180	Statistically reinforced machine learning for nonlinear patterns and variable interactions. Ecosphere, 2017, 8, e01976.	2.2	92

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181	Solving the puzzle of yeast survival in ephemeral nectar systems: exponential growth is not enough. FEMS Microbiology Ecology, 2017, 93, .	2.7	15
182	The Influence of Land Use Intensity on the Plant-Associated Microbiome of Dactylis glomerata L.. Frontiers in Plant Science, 2017, 8, 930.	3.6	57
183	Microplastic Incorporation into Soil in Agroecosystems. Frontiers in Plant Science, 2017, 8, 1805.	3.6	392
184	Increases in Soil Aggregation Following Phosphorus Additions in a Tropical Premontane Forest are Not Driven by Root and Arbuscular Mycorrhizal Fungal Abundances. Frontiers in Earth Science, 2016, 3, .	1.8	9
185	Microbial Community Coalescence for Microbiome Engineering. Frontiers in Microbiology, 2016, 7, 1967.	3.5	39
186	Towards an Integrated Mycorrhizal Technology: Harnessing Mycorrhiza for Sustainable Intensification in Agriculture. Frontiers in Plant Science, 2016, 7, 1625.	3.6	101
187	Resilience of Fungal Communities to Elevated CO2. Microbial Ecology, 2016, 72, 493-495.	2.8	13
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