

Matthias C Rillig

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.

405
papers

30,852
citations

93
h-index

165
g-index

448
ext. papers

39,260
ext. citations

7.3
avg, IF

7.93
L-index

#	Paper	IF	Citations
405	Opportunities and Risks of the "Metaverse" For Biodiversity and the Environment.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	3
404	Arbuscular Mycorrhiza Reduced Nitrogen Loss via Runoff, Leaching, and Emission of N2O and NH3 from Microcosms of Paddy Fields. <i>Water, Air, and Soil Pollution</i> , 2022 , 233, 1	2.6	
403	Local stability properties of complex, species-rich soil food webs with functional block structure. <i>Ecology and Evolution</i> , 2021 , 11, 16070-16081	2.8	1
402	Science-informed salmon conservation strategies. <i>Science</i> , 2021 , 374, 700	33.3	0
401	Diversity of archaea and niche preferences among putative ammonia-oxidizing Nitrososphaeria dominating across European arable soils. <i>Environmental Microbiology</i> , 2021 ,	5.2	1
400	Evolutionary bet-hedging in arbuscular mycorrhiza-associating angiosperms. <i>New Phytologist</i> , 2021 ,	9.8	2
399	Plant herbivore protection by arbuscular mycorrhizas: a role for fungal diversity?. <i>New Phytologist</i> , 2021 ,	9.8	3
398	Mycorrhizal technologies for an agriculture of the middle. <i>Plants People Planet</i> , 2021 , 3, 454-461	4.1	1
397	Classifying human influences on terrestrial ecosystems. <i>Global Change Biology</i> , 2021 , 27, 2273-2278	11.4	8
396	Microplastic effects on carbon cycling processes in soils. <i>PLoS Biology</i> , 2021 , 19, e3001130	9.7	41
395	Effects of Microplastic Fibers on Soil Aggregation and Enzyme Activities Are Organic Matter Dependent. <i>Frontiers in Environmental Science</i> , 2021 , 9,	4.8	9
394	Fungus-bacterium associations are widespread in fungal cultures isolated from a semi-arid natural grassland in Germany. <i>FEMS Microbiology Ecology</i> , 2021 , 97,	4.3	1
393	Indirect Effects of Microplastic-Contaminated Soils on Adjacent Soil Layers: Vertical Changes in Soil Physical Structure and Water Flow. <i>Frontiers in Environmental Science</i> , 2021 , 9,	4.8	5
392	Global Plastic Pollution Observation System to Aid Policy. <i>Environmental Science & Technology</i> , 2021 , 55, 7770-7775	10.3	15
391	Microplastics have shape- and polymer-dependent effects on soil aggregation and organic matter loss â€”an experimental and meta-analytical approach. <i>Microplastics and Nanoplastics</i> , 2021 , 1,		11
390	Global data on earthworm abundance, biomass, diversity and corresponding environmental properties. <i>Scientific Data</i> , 2021 , 8, 136	8.2	4
389	Plant and soil biodiversity have non-substitutable stabilising effects on biomass production. <i>Ecology Letters</i> , 2021 , 24, 1582-1593	10	7

388	Microplastics Increase Soil pH and Decrease Microbial Activities as a Function of Microplastic Shape, Polymer Type, and Exposure Time. <i>Frontiers in Environmental Science</i> , 2021 , 9,	4.8	21
387	Legacy effects of pre-crop plant functional group on fungal root symbionts of barley. <i>Ecological Applications</i> , 2021 , 31, e02378	4.9	1
386	Soil biodiversity enhances the persistence of legumes under climate change. <i>New Phytologist</i> , 2021 , 229, 2945-2956	9.8	11
385	Soil fungal mycelia have unexpectedly flexible stoichiometric C:N and C:P ratios. <i>Ecology Letters</i> , 2021 , 24, 208-218	10	11
384	Below- and aboveground traits explain local abundance, and regional, continental and global occurrence frequencies of grassland plants. <i>Oikos</i> , 2021 , 130, 110-120	4	5
383	Impact of high carbon amendments and pre-crops on soil bacterial communities. <i>Biology and Fertility of Soils</i> , 2021 , 57, 305-317	6.1	2
382	Mycorrhizal suppression and phosphorus addition influence the stability of plant community composition and function in a temperate steppe. <i>Oikos</i> , 2021 , 130, 354-365	4	1
381	Global root traits (GRooT) database. <i>Global Ecology and Biogeography</i> , 2021 , 30, 25-37	6.1	28
380	Tracking, targeting, and conserving soil biodiversity. <i>Science</i> , 2021 , 371, 239-241	33.3	43
379	Effects of microplastics and drought on soil ecosystem functions and multifunctionality. <i>Journal of Applied Ecology</i> , 2021 , 58, 988-996	5.8	32
378	Stress priming affects fungal competition - evidence from a combined experimental and modelling study. <i>Environmental Microbiology</i> , 2021 , 23, 5934-5945	5.2	0
377	Potential Effects of Microplastic on Arbuscular Mycorrhizal Fungi. <i>Frontiers in Plant Science</i> , 2021 , 12, 626709	6.2	10
376	Microplastic Shape, Polymer Type, and Concentration Affect Soil Properties and Plant Biomass. <i>Frontiers in Plant Science</i> , 2021 , 12, 616645	6.2	66
375	The Global Plastic Toxicity Debt. <i>Environmental Science & Technology</i> , 2021 , 55, 2717-2719	10.3	15
374	Microplastic fibers affect dynamics and intensity of CO ₂ and N ₂ O fluxes from soil differently. <i>Microplastics and Nanoplastics</i> , 2021 , 1,		9
373	Soil biota shift with land use change from pristine rainforest and Savannah (Cerrado) to agriculture in southern Amazonia. <i>Molecular Ecology</i> , 2021 , 30, 4899-4912	5.7	1
372	Large-scale drivers of relationships between soil microbial properties and organic carbon across Europe. <i>Global Ecology and Biogeography</i> , 2021 , 30, 2070-2083	6.1	2
371	Soil platispheres as hotpots of antibiotic resistance genes and potential pathogens. <i>ISME Journal</i> , 2021 ,	11.9	12

370	Community response of arbuscular mycorrhizal fungi to extreme drought in a cold-temperate grassland. <i>New Phytologist</i> , 2021 ,	9.8	2
369	Mechanisms underpinning nonadditivity of global change factor effects in the plant-soil system. <i>New Phytologist</i> , 2021 , 232, 1535-1539	9.8	1
368	Scientists need to better communicate the links between pandemics and global environmental change. <i>Nature Ecology and Evolution</i> , 2021 , 5, 1466-1467	12.3	1
367	Drought induces shifts in soil fungal communities that can be linked to root traits across 24 plant species. <i>New Phytologist</i> , 2021 , 232, 1917-1929	9.8	1
366	Crop cover is more important than rotational diversity for soil multifunctionality and cereal yields in European cropping systems. <i>Nature Food</i> , 2021 , 2, 28-37	14.4	30
365	Excluding arbuscular mycorrhiza lowers variability in soil respiration but slows down recovery from perturbations. <i>Ecosphere</i> , 2020 , 11, e03308	3.1	1
364	Moderate phosphorus additions consistently affect community composition of arbuscular mycorrhizal fungi in tropical montane forests in southern Ecuador. <i>New Phytologist</i> , 2020 , 227, 1505-1518	9.8	10
363	Clear Language for Ecosystem Management in the Anthropocene: A Reply to Bridgewater and Hemming. <i>BioScience</i> , 2020 , 70, 374-376	5.7	2
362	SMART Research: Toward Interdisciplinary River Science in Europe. <i>Frontiers in Environmental Science</i> , 2020 , 8,	4.8	4
361	Nitrogen Type and Availability Drive Mycorrhizal Effects on Wheat Performance, Nitrogen Uptake and Recovery, and Production Sustainability. <i>Frontiers in Plant Science</i> , 2020 , 11, 760	6.2	9
360	Mimicking climate warming effects on Alaskan soil microbial communities via gradual temperature increase. <i>Scientific Reports</i> , 2020 , 10, 8533	4.9	4
359	Trait-based approaches reveal fungal adaptations to nutrient-limiting conditions. <i>Environmental Microbiology</i> , 2020 , 22, 3548-3560	5.2	5
358	Soil Saprobic Fungi Differ in Their Response to Gradually and Abruptly Delivered Copper. <i>Frontiers in Microbiology</i> , 2020 , 11, 1195	5.7	0
357	Microplastic Research Should Embrace the Complexity of Secondary Particles. <i>Environmental Science & Technology</i> , 2020 , 54, 7751-7753	10.3	28
356	Myristate and the ecology of AM fungi: significance, opportunities, applications and challenges. <i>New Phytologist</i> , 2020 , 227, 1610-1614	9.8	4
355	Suitability of Mycorrhiza-Defective Rice and Its Progenitor for Studies on the Control of Nitrogen Loss in Paddy Fields via Arbuscular Mycorrhiza. <i>Frontiers in Microbiology</i> , 2020 , 11, 186	5.7	3
354	The fungal collaboration gradient dominates the root economics space in plants. <i>Science Advances</i> , 2020 , 6,	14.3	120
353	Microplastic in terrestrial ecosystems. <i>Science</i> , 2020 , 368, 1430-1431	33.3	188

352	Movement-mediated community assembly and coexistence. <i>Biological Reviews</i> , 2020 , 95, 1073-1096	13.5	16
351	Effects of Microplastic Fibers and Drought on Plant Communities. <i>Environmental Science & Technology</i> , 2020 , 54, 6166-6173	10.3	95
350	Global ecosystem thresholds driven by aridity. <i>Science</i> , 2020 , 367, 787-790	33.3	192
349	Ten simple rules for increased lab resilience. <i>PLoS Computational Biology</i> , 2020 , 16, e1008313	5	1
348	Diversity of Growth Responses of Soil Saprobic Fungi to Recurring Heat Events. <i>Frontiers in Microbiology</i> , 2020 , 11, 1326	5.7	3
347	Protists and collembolans alter microbial community composition, C dynamics and soil aggregation in simplified consumer-prey systems. <i>Biogeosciences</i> , 2020 , 17, 4961-4980	4.6	7
346	Towards an integrative understanding of soil biodiversity. <i>Biological Reviews</i> , 2020 , 95, 350-364	13.5	37
345	Response to the Editor: Assessing the robustness of communities and ecosystems in global change research. <i>Global Change Biology</i> , 2020 , 26, e4-e5	11.4	1
344	Arbuscular mycorrhiza contributes to the control of phosphorus loss in paddy fields. <i>Plant and Soil</i> , 2020 , 447, 623-636	4.2	11
343	Arbuscular mycorrhiza has little influence on N ₂ O potential emissions compared to plant diversity in experimental plant communities. <i>FEMS Microbiology Ecology</i> , 2020 , 96,	4.3	6
342	TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , 2020 , 26, 119-188	11.4	399
341	Neighbours of arbuscular-mycorrhiza associating trees are colonized more extensively by arbuscular mycorrhizal fungi than their conspecifics in ectomycorrhiza dominated stands. <i>New Phytologist</i> , 2020 , 227, 10-13	9.8	5
340	Effects of Different Microplastics on Nematodes in the Soil Environment: Tracking the Extractable Additives Using an Ecotoxicological Approach. <i>Environmental Science & Technology</i> , 2020 , 54, 13868-13878	10.3	31
339	Growth rate trades off with enzymatic investment in soil filamentous fungi. <i>Scientific Reports</i> , 2020 , 10, 11013	4.9	6
338	Microplastic fiber and drought effects on plants and soil are only slightly modified by arbuscular mycorrhizal fungi. <i>Soil Ecology Letters</i> , 2020 , 1	2.7	13
337	Root trait responses to drought are more heterogeneous than leaf trait responses. <i>Functional Ecology</i> , 2020 , 34, 2224-2235	5.6	22
336	Rate of environmental change across scales in ecology. <i>Biological Reviews</i> , 2020 , 95, 1798-1811	13.5	10
335	Blind spots in global soil biodiversity and ecosystem function research. <i>Nature Communications</i> , 2020 , 11, 3870	17.4	72

334	Definition of Core Bacterial Taxa in Different Root Compartments of <i>Dactylis glomerata</i> , Grown in Soil under Different Levels of Land Use Intensity. <i>Diversity</i> , 2020 , 12, 392	2.5	1
333	The concept and future prospects of soil health. <i>Nature Reviews Earth & Environment</i> , 2020 , 1, 544-553	30.2	130
332	Machine learning with the hierarchy-of-hypotheses (HoH) approach discovers novel pattern in studies on biological invasions. <i>Research Synthesis Methods</i> , 2020 , 11, 66-73	7.2	7
331	Global distribution of earthworm diversity. <i>Science</i> , 2019 , 366, 480-485	33.3	113
330	Increasing Temperature and Microplastic Fibers Jointly Influence Soil Aggregation by Saprobic Fungi. <i>Frontiers in Microbiology</i> , 2019 , 10, 2018	5.7	35
329	Towards an Integrative, Eco-Evolutionary Understanding of Ecological Novelty: Studying and Communicating Interlinked Effects of Global Change. <i>BioScience</i> , 2019 , 69, 888-899	5.7	31
328	Testing Contrast Agents to Improve Micro Computerized Tomography (CT) for Spatial Location of Organic Matter and Biological Material in Soil. <i>Frontiers in Environmental Science</i> , 2019 , 7,	4.8	8
327	Microbial biospherics: The experimental study of ecosystem function and evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 11093-11098	11.5	9
326	Latitudinal constraints in responsiveness of plants to arbuscular mycorrhiza: the 'sun-worshipper' hypothesis. <i>New Phytologist</i> , 2019 , 224, 552-556	9.8	5
325	Basic Principles of Temporal Dynamics. <i>Trends in Ecology and Evolution</i> , 2019 , 34, 723-733	10.9	44
324	Subsoil Arbuscular Mycorrhizal Fungi for Sustainability and Climate-Smart Agriculture: A Solution Right Under Our Feet?. <i>Frontiers in Microbiology</i> , 2019 , 10, 744	5.7	32
323	Abiotic and Biotic Factors Influencing the Effect of Microplastic on Soil Aggregation. <i>Soil Systems</i> , 2019 , 3, 21	3.5	46
322	Expanding the toolbox of nutrient limitation studies: A novel method of soil microbial in-growth bags to evaluate nutrient demands in tropical forests. <i>Functional Ecology</i> , 2019 , 33, 1536-1548	5.6	1
321	Microplastics Can Change Soil Properties and Affect Plant Performance. <i>Environmental Science & Technology</i> , 2019 , 53, 6044-6052	10.3	390
320	Microplastic effects on plants. <i>New Phytologist</i> , 2019 , 223, 1066-1070	9.8	224
319	Distinct communities of Cercozoa at different soil depths in a temperate agricultural field. <i>FEMS Microbiology Ecology</i> , 2019 , 95,	4.3	14
318	Visualizing the dynamics of soil aggregation as affected by arbuscular mycorrhizal fungi. <i>ISME Journal</i> , 2019 , 13, 1639-1646	11.9	42
317	Fungal Traits Important for Soil Aggregation. <i>Frontiers in Microbiology</i> , 2019 , 10, 2904	5.7	27

316	Research experience modifies how participants profit from journal clubs in academia. <i>Journal of Biological Education</i> , 2019 , 53, 327-332	0.9	1
315	Towards the development of general rules describing landscape heterogeneityâmultifunctionality relationships. <i>Journal of Applied Ecology</i> , 2019 , 56, 168-179	5.8	26
314	Biogeographical constraints in Glomeromycotinan distribution across forest habitats in China. <i>Journal of Ecology</i> , 2019 , 107, 684-695	6	9
313	The relative importance of ecological drivers of arbuscular mycorrhizal fungal distribution varies with taxon phylogenetic resolution. <i>New Phytologist</i> , 2019 , 224, 936-948	9.8	8
312	Functional Traits and Spatio-Temporal Structure of a Major Group of Soil Protists (Rhizaria: Cercozoa) in a Temperate Grassland. <i>Frontiers in Microbiology</i> , 2019 , 10, 1332	5.7	43
311	Shaping Up: Toward Considering the Shape and Form of Pollutants. <i>Environmental Science & Technology</i> , 2019 , 53, 7925-7926	10.3	31
310	Tradeoffs in hyphal traits determine mycelium architecture in saprobic fungi. <i>Scientific Reports</i> , 2019 , 9, 14152	4.9	10
309	Collembola laterally move biochar particles. <i>PLoS ONE</i> , 2019 , 14, e0224179	3.7	3
308	The role of multiple global change factors in driving soil functions and microbial biodiversity. <i>Science</i> , 2019 , 366, 886-890	33.3	169
307	Exploring the agricultural parameter space for crop yield and sustainability. <i>New Phytologist</i> , 2019 , 223, 517-519	9.8	6
306	The role of active movement in fungal ecology and community assembly. <i>Movement Ecology</i> , 2019 , 7, 36	4.6	10
305	Evolutionary implications of microplastics for soil biota. <i>Environmental Chemistry</i> , 2019 , 16, 3-7	3.2	53
304	Bridging reproductive and microbial ecology: a case study in arbuscular mycorrhizal fungi. <i>ISME Journal</i> , 2019 , 13, 873-884	11.9	21
303	Arbuscular Mycorrhizal Fungi Alter the Community Structure of Ammonia Oxidizers at High Fertility via Competition for Soil NH. <i>Microbial Ecology</i> , 2019 , 78, 147-158	4.4	16
302	Contrasting latitudinal diversity and co-occurrence patterns of soil fungi and plants in forest ecosystems. <i>Soil Biology and Biochemistry</i> , 2019 , 131, 100-110	7.5	39
301	Why farmers should manage the arbuscular mycorrhizal symbiosis. <i>New Phytologist</i> , 2019 , 222, 1171-1175	5.8	86
300	Do soil bacterial communities respond differently to abrupt or gradual additions of copper?. <i>FEMS Microbiology Ecology</i> , 2019 , 95,	4.3	5
299	Arbuscular mycorrhizal fungi increase grain yields: a meta-analysis. <i>New Phytologist</i> , 2019 , 222, 543-555	9.8	97

298	Arbuscular mycorrhizal fungal and soil microbial communities in African Dark Earths. <i>FEMS Microbiology Ecology</i> , 2018 , 94,	4.3	6
297	Intransitive competition is common across five major taxonomic groups and is driven by productivity, competitive rank and functional traits. <i>Journal of Ecology</i> , 2018 , 106, 852-864	6	24
296	Biodiversity of arbuscular mycorrhizal fungi and ecosystem function. <i>New Phytologist</i> , 2018 , 220, 1059-1075	10.35	151
295	Impacts of domestication on the arbuscular mycorrhizal symbiosis of 27 crop species. <i>New Phytologist</i> , 2018 , 218, 322-334	9.8	72
294	Assessing soil ecosystem processes & biodiversity relationships in a nature reserve in Central Europe. <i>Plant and Soil</i> , 2018 , 424, 491-501	4.2	2
293	Application of the microbial community coalescence concept to riverine networks. <i>Biological Reviews</i> , 2018 , 93, 1832-1845	13.5	43
292	Nutrient limitation of soil microbial processes in tropical forests. <i>Ecological Monographs</i> , 2018 , 88, 4-21	9	151
291	Impacts of Microplastics on the Soil Biophysical Environment. <i>Environmental Science & Technology</i> , 2018 , 52, 9656-9665	10.3	440
290	Evidence for Subsoil Specialization in Arbuscular Mycorrhizal Fungi. <i>Frontiers in Ecology and Evolution</i> , 2018 , 6,	3.7	11
289	Responsiveness of plants to mycorrhiza regulates coexistence. <i>Journal of Ecology</i> , 2018 , 106, 1864-1875	6	16
288	Plant diversity maintains multiple soil functions in future environments. <i>ELife</i> , 2018 , 7,	8.9	26
287	Microplastic and soil protists: A call for research. <i>Environmental Pollution</i> , 2018 , 241, 1128-1131	9.3	82
286	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. <i>Fungal Ecology</i> , 2018 , 32, 18-28	4.1	2
285	Microplastics as an emerging threat to terrestrial ecosystems. <i>Global Change Biology</i> , 2018 , 24, 1405-1416	16.4	680
284	Widely distributed native and alien plant species differ in arbuscular mycorrhizal associations and related functional trait interactions. <i>Ecography</i> , 2018 , 41, 1583-1593	6.5	6
283	Subsoil arbuscular mycorrhizal fungal communities in arable soil differ from those in topsoil. <i>Soil Biology and Biochemistry</i> , 2018 , 117, 83-86	7.5	21
282	Soil Biodiversity Effects from Field to Fork. <i>Trends in Plant Science</i> , 2018 , 23, 17-24	13.1	36
281	Predictors of Arbuscular Mycorrhizal Fungal Communities in the Brazilian Tropical Dry Forest. <i>Microbial Ecology</i> , 2018 , 75, 447-458	4.4	15

280	Fungal Decision to Exploit or Explore Depends on Growth Rate. <i>Microbial Ecology</i> , 2018 , 75, 289-292	4.4	7
279	Growing Research Networks on Mycorrhizae for Mutual Benefits. <i>Trends in Plant Science</i> , 2018 , 23, 975-984	4.1	25
278	How Soil Biota Drive Ecosystem Stability. <i>Trends in Plant Science</i> , 2018 , 23, 1057-1067	13.1	69
277	Microplastic Disguising As Soil Carbon Storage. <i>Environmental Science & Technology</i> , 2018 , 52, 6079-6080	6.0	113
276	Facilitation between woody and herbaceous plants that associate with arbuscular mycorrhizal fungi in temperate European forests. <i>Ecology and Evolution</i> , 2017 , 7, 1181-1189	2.8	16
275	Where less may be more: how the rare biosphere pulls ecosystems strings. <i>ISME Journal</i> , 2017 , 11, 853-862	2.9	460
274	Linking the community structure of arbuscular mycorrhizal fungi and plants: a story of interdependence?. <i>ISME Journal</i> , 2017 , 11, 1400-1411	11.9	51
273	Plant diversity represents the prevalent determinant of soil fungal community structure across temperate grasslands in northern China. <i>Soil Biology and Biochemistry</i> , 2017 , 110, 12-21	7.5	124
272	Soil aggregates as massively concurrent evolutionary incubators. <i>ISME Journal</i> , 2017 , 11, 1943-1948	11.9	125
271	Specialist nectar-yeasts decline with urbanization in Berlin. <i>Scientific Reports</i> , 2017 , 7, 45315	4.9	7
270	Priorities for research in soil ecology. <i>Pedobiologia</i> , 2017 , 63, 1-7	1.7	44
269	Microplastic transport in soil by earthworms. <i>Scientific Reports</i> , 2017 , 7, 1362	4.9	338
268	Transport of microplastics by two collembolan species. <i>Environmental Pollution</i> , 2017 , 225, 456-459	9.3	187
267	Mycorrhizas and Soil Aggregation 2017 , 241-262		22
266	Soil biota contributions to soil aggregation. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1828-1835	12.3	148
265	Environmental Filtering Is a Relic. A Response to Cadotte and Tucker. <i>Trends in Ecology and Evolution</i> , 2017 , 32, 882-884	10.9	9
264	Root traits are more than analogues of leaf traits: the case for diaspore mass. <i>New Phytologist</i> , 2017 , 216, 1130-1139	9.8	44
263	Historical biome distribution and recent human disturbance shape the diversity of arbuscular mycorrhizal fungi. <i>New Phytologist</i> , 2017 , 216, 227-238	9.8	47

262	Physical environmental controls on riparian root profiles associated with black poplar (<i>Populus nigra</i> L.) along the Tagliamento River, Italy. <i>Earth Surface Processes and Landforms</i> , 2017 , 42, 1262-1273	3.7	12
261	Succession of arbuscular mycorrhizal fungi along a 52-year agricultural recultivation chronosequence. <i>FEMS Microbiology Ecology</i> , 2017 , 93,	4.3	8
260	Microbial Ecology: Community Coalescence Stirs Things Up. <i>Current Biology</i> , 2017 , 27, R1280-R1282	6.3	13
259	Applying allometric theory to fungi. <i>ISME Journal</i> , 2017 , 11, 2175-2180	11.9	9
258	Underground riparian wood: Reconstructing the processes influencing buried stem and coarse root structures of Black Poplar (<i>Populus nigra</i> L.). <i>Geomorphology</i> , 2017 , 279, 199-208	4.3	13
257	Mycorrhizal status helps explain invasion success of alien plant species. <i>Ecology</i> , 2017 , 98, 92-102	4.6	46
256	Potential Environmental Impacts of an "Underground Revolution": A Response to Bender et al. <i>Trends in Ecology and Evolution</i> , 2017 , 32, 8-10	10.9	14
255	Underground riparian wood: Buried stem and coarse root structures of Black Poplar (<i>Populus nigra</i> L.). <i>Geomorphology</i> , 2017 , 279, 188-198	4.3	16
254	Statistically reinforced machine learning for nonlinear patterns and variable interactions. <i>Ecosphere</i> , 2017 , 8, e01976	3.1	48
253	Solving the puzzle of yeast survival in ephemeral nectar systems: exponential growth is not enough. <i>FEMS Microbiology Ecology</i> , 2017 , 93,	4.3	10
252	The Influence of Land Use Intensity on the Plant-Associated Microbiome of L. <i>Frontiers in Plant Science</i> , 2017 , 8, 930	6.2	35
251	Microplastic Incorporation into Soil in Agroecosystems. <i>Frontiers in Plant Science</i> , 2017 , 8, 1805	6.2	215
250	Biodiversity at multiple trophic levels is needed for ecosystem multifunctionality. <i>Nature</i> , 2016 , 536, 456-9	50.4	345
249	High-resolution community profiling of arbuscular mycorrhizal fungi. <i>New Phytologist</i> , 2016 , 212, 780-793	3.8	81
248	Effect of different root endophytic fungi on plant community structure in experimental microcosms. <i>Ecology and Evolution</i> , 2016 , 6, 8149-8158	2.8	19
247	Arbuscular mycorrhizal fungi negatively affect soil seed bank viability. <i>Ecology and Evolution</i> , 2016 , 6, 7683-7689	2.8	9
246	Foliar and soil concentrations and stoichiometry of nitrogen and phosphorous across European <i>Pinus sylvestris</i> forests: relationships with climate, N deposition and tree growth. <i>Functional Ecology</i> , 2016 , 30, 676-689	5.6	63
245	Microbial stress priming: a meta-analysis. <i>Environmental Microbiology</i> , 2016 , 18, 1277-88	5.2	29

244	Distribution patterns of arbuscular mycorrhizal and non-mycorrhizal plant species in Germany. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2016 , 21, 78-88	3	25
243	Biochars reduce infection rates of the root-lesion nematode <i>Pratylenchus penetrans</i> and associated biomass loss in carrot. <i>Soil Biology and Biochemistry</i> , 2016 , 95, 11-18	7.5	40
242	Soil substrates affect responses of root feeding larvae to their hosts at multiple levels: Orientation, locomotion and feeding. <i>Basic and Applied Ecology</i> , 2016 , 17, 115-124	3.2	7
241	Arbuscular mycorrhizal fungal hyphae reduce soil erosion by surface water flow in a greenhouse experiment. <i>Applied Soil Ecology</i> , 2016 , 99, 137-140	5	42
240	Do arbuscular mycorrhizal fungi stabilize litter-derived carbon in soil?. <i>Journal of Ecology</i> , 2016 , 104, 261-269	6	53
239	Opposing effects of nitrogen versus phosphorus additions on mycorrhizal fungal abundance along an elevational gradient in tropical montane forests. <i>Soil Biology and Biochemistry</i> , 2016 , 94, 37-47	7.5	39
238	Increases in Soil Aggregation Following Phosphorus Additions in a Tropical Premontane Forest are Not Driven by Root and Arbuscular Mycorrhizal Fungal Abundances. <i>Frontiers in Earth Science</i> , 2016 , 3,	3.5	6
237	Microbial Community Coalescence for Microbiome Engineering. <i>Frontiers in Microbiology</i> , 2016 , 7, 1967	5.7	30
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14	Global Root Traits (GRoot) Database		2
13	Microplastics have shape- and polymer-dependent effects on soil processes		9
12	Effects of Different Microplastics on Nematodes in the Soil Environment: Tracking the Extractable Additives using an Ecotoxicological Approach		2
11	Microplastic shape, concentration and polymer type affect soil properties and plant biomass		4

10	Growth rate trades off with enzymatic investment in soil filamentous fungi		4
9	How to build a mycelium: tradeoffs in fungal architectural traits		3
8	Global distribution of earthworm diversity		4
7	Fungal traits important for soil aggregation		2
6	Blind spots in global soil biodiversity and ecosystem function research		2
5	Root trait responses to drought depend on plant functional group		4
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