

Stefan Geisen

List of Publications by Year in descending order

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Version: 2024-02-01

106
papers

8,154
citations

46984

47
h-index

56687

83
g-index

113
all docs

113
docs citations

113
times ranked

6488
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil nematode abundance and functional group composition at a global scale. <i>Nature</i> , 2019, 572, 194-198.	13.7	635
2	Soil networks become more connected and take up more carbon as nature restoration progresses. <i>Nature Communications</i> , 2017, 8, 14349.	5.8	555
3	Soil protists: a fertile frontier in soil biology research. <i>FEMS Microbiology Reviews</i> , 2018, 42, 293-323.	3.9	368
4	Hyperthermophilic Composting Accelerates the Removal of Antibiotic Resistance Genes and Mobile Genetic Elements in Sewage Sludge. <i>Environmental Science & Technology</i> , 2018, 52, 266-276.	4.6	321
5	Protist communities are more sensitive to nitrogen fertilization than other microorganisms in diverse agricultural soils. <i>Microbiome</i> , 2019, 7, 33.	4.9	278
6	Metatranscriptomic census of active protists in soils. <i>ISME Journal</i> , 2015, 9, 2178-2190.	4.4	274
7	The global-scale distributions of soil protists and their contributions to belowground systems. <i>Science Advances</i> , 2020, 6, eaax8787.	4.7	263
8	Trophic Regulations of the Soil Microbiome. <i>Trends in Microbiology</i> , 2019, 27, 771-780.	3.5	232
9	Protists: Puppet Masters of the Rhizosphere Microbiome. <i>Trends in Plant Science</i> , 2019, 24, 165-176.	4.3	215
10	Soil protist communities form a dynamic hub in the soil microbiome. <i>ISME Journal</i> , 2018, 12, 634-638.	4.4	184
11	Bio-organic fertilizers stimulate indigenous soil <i>Pseudomonas</i> populations to enhance plant disease suppression. <i>Microbiome</i> , 2020, 8, 137.	4.9	181
12	The soil food web revisited: Diverse and widespread mycophagous soil protists. <i>Soil Biology and Biochemistry</i> , 2016, 94, 10-18.	4.2	175
13	Rhizosphere protists are key determinants of plant health. <i>Microbiome</i> , 2020, 8, 27.	4.9	156
14	Challenges and Opportunities for Soil Biodiversity in the Anthropocene. <i>Current Biology</i> , 2019, 29, R1036-R1044.	1.8	136
15	Soil protistology rebooted: 30 fundamental questions to start with. <i>Soil Biology and Biochemistry</i> , 2017, 111, 94-103.	4.2	130
16	The bacterial-fungal energy channel concept challenged by enormous functional versatility of soil protists. <i>Soil Biology and Biochemistry</i> , 2016, 102, 22-25.	4.2	129
17	Soil water availability strongly alters the community composition of soil protists. <i>Pedobiologia</i> , 2014, 57, 205-213.	0.5	125
18	Not all are free-living: high-throughput <i>scp</i> -DNA metabarcoding reveals a diverse community of protists parasitizing soil metazoa. <i>Molecular Ecology</i> , 2015, 24, 4556-4569.	2.0	116

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19	The prey's scent – Volatile organic compound mediated interactions between soil bacteria and their protist predators. <i>ISME Journal</i> , 2017, 11, 817-820.	4.4	115
20	Organism body size structures the soil microbial and nematode community assembly at a continental and global scale. <i>Nature Communications</i> , 2020, 11, 6406.	5.8	113
21	Feeding habits and multifunctional classification of soil-associated consumers from protists to vertebrates. <i>Biological Reviews</i> , 2022, 97, 1057-1117.	4.7	113
22	Protist taxonomic and functional diversity in soil, freshwater and marine ecosystems. <i>Environment International</i> , 2021, 146, 106262.	4.8	110
23	Horizontal gene transfer and shifts in linked bacterial community composition are associated with maintenance of antibiotic resistance genes during food waste composting. <i>Science of the Total Environment</i> , 2019, 660, 841-850.	3.9	99
24	Pack hunting by a common soil amoeba on nematodes. <i>Environmental Microbiology</i> , 2015, 17, 4538-4546.	1.8	93
25	Nematodes as Drivers of Plant Performance in Natural Systems. <i>Trends in Plant Science</i> , 2021, 26, 237-247.	4.3	90
26	A methodological framework to embrace soil biodiversity. <i>Soil Biology and Biochemistry</i> , 2019, 136, 107536.	4.2	88
27	Efficient reduction of antibiotic residues and associated resistance genes in tylosin antibiotic fermentation waste using hyperthermophilic composting. <i>Environment International</i> , 2019, 133, 105203.	4.8	82
28	Selecting cost effective and policy-relevant biological indicators for European monitoring of soil biodiversity and ecosystem function. <i>Ecological Indicators</i> , 2016, 69, 213-223.	2.6	80
29	Integrating quantitative morphological and qualitative molecular methods to analyse soil nematode community responses to plant range expansion. <i>Methods in Ecology and Evolution</i> , 2018, 9, 1366-1378.	2.2	78
30	Fertilization changes soil microbiome functioning, especially phagotrophic protists. <i>Soil Biology and Biochemistry</i> , 2020, 148, 107863.	4.2	78
31	Seed and Root Endophytic Fungi in a Range Expanding and a Related Plant Species. <i>Frontiers in Microbiology</i> , 2017, 8, 1645.	1.5	77
32	Acanthamoeba everywhere: high diversity of Acanthamoeba in soils. <i>Parasitology Research</i> , 2014, 113, 3151-3158.	0.6	75
33	<i>UniEuk</i>: Time to Speak a Common Language in Protistology!. <i>Journal of Eukaryotic Microbiology</i> , 2017, 64, 407-411.	0.8	74
34	Microbial invasions in terrestrial ecosystems. <i>Nature Reviews Microbiology</i> , 2019, 17, 621-631.	13.6	74
35	Root traits and belowground herbivores relate to plant's soil feedback variation among congeners. <i>Nature Communications</i> , 2019, 10, 1564.	5.8	71
36	Protists as main indicators and determinants of plant performance. <i>Microbiome</i> , 2021, 9, 64.	4.9	71

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37	Herbicide Selection Promotes Antibiotic Resistance in Soil Microbiomes. <i>Molecular Biology and Evolution</i> , 2021, 38, 2337-2350.	3.5	68
38	Range-expansion effects on the belowground plant microbiome. <i>Nature Ecology and Evolution</i> , 2019, 3, 604-611.	3.4	67
39	Methodological advances to study the diversity of soil protists and their functioning in soil food webs. <i>Applied Soil Ecology</i> , 2018, 123, 328-333.	2.1	62
40	Protists as catalyzers of microbial litter breakdown and carbon cycling at different temperature regimes. <i>ISME Journal</i> , 2021, 15, 618-621.	4.4	61
41	Network Analyses Can Advance Above-Belowground Ecology. <i>Trends in Plant Science</i> , 2018, 23, 759-768.	4.3	60
42	Expansion of the molecular and morphological diversity of Acanthamoebidae (Centramoebida). <i>Trends in Microbiology</i> , 2019, 17, 50-54.	1.9	58
43	Protist species richness and soil microbiome complexity increase towards climax vegetation in the Brazilian Cerrado. <i>Communications Biology</i> , 2018, 1, 135.	2.0	58
44	Expansion of the "Reticulosphere": Diversity of Novel Branching and Network-forming Amoebae Helps to Define Variosea (Amoebozoa). <i>Protist</i> , 2015, 166, 271-295.	0.6	57
45	A low proportion of rare bacterial taxa responds to abiotic changes compared with dominant taxa. <i>Environmental Microbiology</i> , 2019, 21, 750-758.	1.8	57
46	Trophic interactions between predatory protists and pathogen-suppressive bacteria impact plant health. <i>ISME Journal</i> , 2022, 16, 1932-1943.	4.4	57
47	Nematode-based indices in soil ecology: Application, utility, and future directions. <i>Soil Biology and Biochemistry</i> , 2022, 169, 108640.	4.2	56
48	Distributional (In)Congruence of Biodiversity and Ecosystem Functioning. <i>Advances in Ecological Research</i> , 2012, 46, 1-88.	1.4	52
49	Agriculture erases climate constraints on soil nematode communities across large spatial scales. <i>Global Change Biology</i> , 2020, 26, 919-930.	4.2	49
50	A global overview of the trophic structure within microbiomes across ecosystems. <i>Environment International</i> , 2021, 151, 106438.	4.8	48
51	Temperature-Induced Annual Variation in Microbial Community Changes and Resulting Metabolome Shifts in a Controlled Fermentation System. <i>MSystems</i> , 2020, 5, .	1.7	47
52	Metabarcoding data allow for reliable biomass estimates in the most abundant animals on earth. <i>Metabarcoding and Metagenomics</i> , 0, 3, .	0.0	47
53	Towards revealing the global diversity and community assembly of soil eukaryotes. <i>Ecology Letters</i> , 2022, 25, 65-76.	3.0	47
54	A global database of soil nematode abundance and functional group composition. <i>Scientific Data</i> , 2020, 7, 103.	2.4	46

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55	Latitudinal variation in soil nematode communities under climate warming—related range—expanding and native plants. <i>Global Change Biology</i> , 2019, 25, 2714-2726.	4.2	45
56	The effect of microbial inoculant origin on the rhizosphere bacterial community composition and plant growth-promotion. <i>Plant and Soil</i> , 2020, 452, 105-117.	1.8	44
57	Coprophilic amoebae and flagellates, including <i>Guttulinopsis</i> , <i>Rosculus</i> and <i>Helkesimastix</i> , characterise a divergent and diverse rhizarian radiation and contribute to a large diversity of faecal—associated protists. <i>Environmental Microbiology</i> , 2016, 18, 1604-1619.	1.8	42
58	Trophic interactions as determinants of the arbuscular mycorrhizal fungal community with cascading plant-promoting consequences. <i>Microbiome</i> , 2020, 8, 142.	4.9	42
59	Metagenomic assessment of the global diversity and distribution of bacteria and fungi. <i>Environmental Microbiology</i> , 2021, 23, 316-326.	1.8	42
60	Reduced tillage, but not organic matter input, increased nematode diversity and food web stability in European long—term field experiments. <i>Molecular Ecology</i> , 2019, 28, 4987-5005.	2.0	39
61	pr2—primers: An 18S rRNA primer database for protists. <i>Molecular Ecology Resources</i> , 2022, 22, 168-179.	2.2	39
62	Contribution of soil algae to the global carbon cycle. <i>New Phytologist</i> , 2022, 234, 64-76.	3.5	39
63	Deciphering Underlying Drivers of Disease Suppressiveness Against Pathogenic <i>Fusarium oxysporum</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 2535.	1.5	38
64	Thorough high—throughput sequencing analyses unravels huge diversities of soil parasitic protists. <i>Environmental Microbiology</i> , 2016, 18, 1669-1672.	1.8	36
65	Organic matter composition and the protist and nematode communities around anecic earthworm burrows. <i>Biology and Fertility of Soils</i> , 2016, 52, 91-100.	2.3	35
66	The need for standardisation: Exemplified by a description of the diversity, community structure and ecological indices of soil nematodes. <i>Ecological Indicators</i> , 2018, 87, 43-46.	2.6	34
67	Chemical structure predicts the effect of plant—derived low—molecular weight compounds on soil microbiome structure and pathogen suppression. <i>Functional Ecology</i> , 2020, 34, 2158-2169.	1.7	34
68	Microbial amendments alter protist communities within the soil microbiome. <i>Soil Biology and Biochemistry</i> , 2019, 135, 379-382.	4.2	32
69	Stimulation of bacteria and protists in rhizosphere of glyphosate-treated barley. <i>Applied Soil Ecology</i> , 2016, 98, 47-55.	2.1	31
70	Discrepancy between Species Borders at Morphological and Molecular Levels in the Genus <i>Cochliopodium</i> (Amoebozoa, Himatizmenida), with the Description of <i>Cochliopodium plurinucleolum</i> n. sp.. <i>Protist</i> , 2014, 165, 364-383.	0.6	30
71	A method of establishing a transect for biodiversity and ecosystem function monitoring across Europe. <i>Applied Soil Ecology</i> , 2016, 97, 3-11.	2.1	29
72	Rhizosphere immunity: targeting the underground for sustainable plant health management. <i>Frontiers of Agricultural Science and Engineering</i> , 2020, 7, 317.	0.9	28

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73	The aerobiome uncovered: Multi-marker metabarcoding reveals potential drivers of turn-over in the full microbial community in the air. <i>Environment International</i> , 2021, 154, 106551.	4.8	27
74	Ecosystem coupling: A unifying framework to understand the functioning and recovery of ecosystems. <i>One Earth</i> , 2021, 4, 951-966.	3.6	26
75	Two new species of the genus <i>Stenamoeba</i> (Discosea, Longamoebia): Cytoplasmic MTOC is present in one more amoebae lineage. <i>European Journal of Protistology</i> , 2014, 50, 153-165.	0.5	25
76	Competition and predation as possible causes of bacterial rarity. <i>Environmental Microbiology</i> , 2019, 21, 1356-1368.	1.8	23
77	Contrasting effects of soil microbial interactions on growthâ€“defence relationships between earlyâ€“ and midâ€“successional plant communities. <i>New Phytologist</i> , 2022, 233, 1345-1357.	3.5	22
78	Patterns of local, intercontinental and interseasonal variation of soil bacterial and eukaryotic microbial communities. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	19
79	The relative importance of soil moisture in predicting bacterial wilt disease occurrence. <i>Soil Ecology Letters</i> , 2021, 3, 356-366.	2.4	19
80	Faster recovery of soil biodiversity in native species mixture than in <i>Eucalyptus</i> monoculture after 60 years afforestation in tropical degraded coastal terraces. <i>Global Change Biology</i> , 2021, 27, 5329-5340.	4.2	17
81	Agricultural habitats are dominated by rapidly evolving nematodes revealed through phylogenetic comparative methods. <i>Soil Biology and Biochemistry</i> , 2021, 155, 108183.	4.2	16
82	Heterogeneity in the genus <i>Allovahtkampfia</i> and the description of the new genus <i>Parafumarolamoeba</i> (Vahlkampfiidae; Heterolobosea). <i>European Journal of Protistology</i> , 2015, 51, 335-349.	0.5	14
83	Communityâ€“level interactions between plants and soil biota during range expansion. <i>Journal of Ecology</i> , 2020, 108, 1860-1873.	1.9	14
84	Nematode Predation and Competitive Interactions Affect Microbe-Mediated Phosphorus Dynamics. <i>MBio</i> , 2022, 13, e0329321.	1.8	14
85	Protist feeding patterns and growth rate are related to their predatory impacts on soil bacterial communities. <i>FEMS Microbiology Ecology</i> , 2022, 98, .	1.3	14
86	Soil functional responses to drought under rangeâ€“expanding and native plant communities. <i>Functional Ecology</i> , 2019, 33, 2402-2416.	1.7	13
87	Shotgun metagenomics reveal a diverse assemblage of protists in a model Antarctic soil ecosystem. <i>Environmental Microbiology</i> , 2020, 22, 4620-4632.	1.8	13
88	Resilience of rhizosphere microbial predators and their prey communities after an extreme heat event. <i>Functional Ecology</i> , 2021, 35, 216-225.	1.7	13
89	Molecular Identification of Soil Eukaryotes and Focused Approaches Targeting Protist and Faunal Groups Using High-Throughput Metabarcoding. <i>Methods in Molecular Biology</i> , 2016, 1399, 125-140.	0.4	11
90	Phylogeny and Systematics of Leptomyxid Amoebae (Amoebozoa, Tubulinea, Leptomyxida). <i>Protist</i> , 2017, 168, 220-252.	0.6	11

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91	Fungal root endophytes influence plants in a species-specific manner that depends on plant's growth stage. <i>Journal of Ecology</i> , 2021, 109, 1618-1632.	1.9	11
92	Management effects on soil nematode abundance differ among functional groups and land-use types at a global scale. <i>Journal of Animal Ecology</i> , 2022, 91, 1770-1780.	1.3	11
93	Soil microbial diversity and community composition during conversion from conventional to organic agriculture. <i>Molecular Ecology</i> , 2022, 31, 4017-4030.	2.0	11
94	Interspecific differences in nematode control between range-expanding plant species and their congeneric natives. <i>Soil Biology and Biochemistry</i> , 2016, 100, 233-241.	4.2	10
95	The Future of (Soil) Microbiome Studies: Current Limitations, Integration, and Perspectives. <i>MSystems</i> , 2021, 6, e0061321.	1.7	10
96	Distinct Resistomes and Microbial Communities of Soils, Wastewater Treatment Plants and Households Suggest Development of Antibiotic Resistances Due to Distinct Environmental Conditions in Each Environment. <i>Antibiotics</i> , 2021, 10, 514.	1.5	8
97	Discrepancies between prokaryotes and eukaryotes need to be considered in soil <i>scn</i> -based studies. <i>Environmental Microbiology</i> , 2022, 24, 3829-3839.	1.8	8
98	Humusica 2, article 17: techno humus systems and global change – three crucial questions. <i>Applied Soil Ecology</i> , 2018, 122, 237-253.	2.1	7
99	Arbuscular mycorrhizal inoculation and plant response strongly shape bacterial and eukaryotic soil community trajectories. <i>Soil Biology and Biochemistry</i> , 2022, 165, 108524.	4.2	6
100	Microbial-Faunal Interactions in the Rhizosphere. <i>Rhizosphere Biology</i> , 2021, , 237-253.	0.4	4
101	Pedogenesis shapes predator-prey relationships within soil microbiomes. <i>Science of the Total Environment</i> , 2022, 828, 154405.	3.9	4
102	Five Groups in the Genus <i>Allovalkampfia</i> and the Description of the New Species <i>Vahlkampfia bulbosis</i> n.sp.. <i>Protist</i> , 2022, 173, 125870.	0.6	4
103	Erratum to "Soil water availability strongly alters the community composition of soil protists" [Pedobiologia " J. Soil Ecol. 57 (4) (2014) 205-213]. <i>Pedobiologia</i> , 2015, 58, 55.	0.5	3
104	Plant population and soil origin effects on rhizosphere nematode community composition of a range-expanding plant species and a native congener. <i>Oecologia</i> , 2020, 194, 237-250.	0.9	2
105	Inventory of the benthic eukaryotic diversity in the oldest European lake. <i>Ecology and Evolution</i> , 2021, 11, 11207-11215.	0.8	2
106	Super-Small Predators in Soils: Who Are They and What Do They Do?. <i>Frontiers for Young Minds</i> , 0, 9, .	0.8	0