Franciska T. de Vries

List of Publications by Year
in descending order

61 papers	9,895 citations	61984 43 h-index	133252 59 g-index
69 all docs	69 docs citations	69 times ranked	11631 citing authors

#	Article	IF	Citations
1	Root functional traits explain root exudation rate and composition across a range of grassland species. Journal of Ecology, 2022, 110, 21-33.	4.0	79
2	Deciphering the role of specialist and generalist plantâ€“microbial interactions as drivers of plantâ€“soil feedback. New Phytologist, 2022, 234, 1929-1944.	7.3	63
3	Explanations for nitrogen decline. Science, 2022, 376, 1169-1170.	12.6	4
4	Root traits explain rhizosphere fungal community composition among temperate grassland plant species. New Phytologist, 2021, 229, 1492-1507.	7.3	102
5	Plant Genetic Networks Shaping Phyllosphere Microbial Community. Trends in Genetics, 2021, 37, 306-316.	6.7	29
6	Forest fire induces shortâ€term shifts in soil food webs with consequences for carbon cycling. Ecology Letters, 2021, 24, 438-450.	6.4	22
7	Global root traits (GRooT) database. Global Ecology and Biogeography, 2021, 30, 25-37.	5.8	90
8	Tracking, targeting, and conserving soil biodiversity. Science, 2021, 371, 239-241.	12.6	151
9	Are researchers following best storage practices for measuring soil biochemical properties?. Soil, 2021, 7, 95-106.	4.9	7
10	Global data on earthworm abundance, biomass, diversity and corresponding environmental properties. Scientific Data, 2021, 8, 136.	5.3	29
11	Glacier forelands reveal fundamental plant and microbial controls on shortâ€term ecosystem nitrogen retention. Journal of Ecology, 2021, 109, 3710-3723.	4.0	9
12	Comparing root exudate collection techniques: An improved hybrid method. Soil Biology and Biochemistry, 2021, 161, 108391.	8.8	49
13	Local stability properties of complex, speciesâ€rich soil food webs with functional block structure. Ecology and Evolution, 2021, 11, 16070-16081.	1.9	11
14	Towards an integrative understanding of soil biodiversity. Biological Reviews, 2020, 95, 350-364.	10.4	97
15	Plant root exudation under drought: implications for ecosystem functioning. New Phytologist, 2020, 225, 1899-1905.	7.3	296
16	Global plant trait relationships extend to the climatic extremes of the tundra biome. Nature Communications, 2020, 11, 1351.	12.8	52
17	Harnessing rhizosphere microbiomes for drought-resilient crop production. Science, 2020, 368, 270-274.	12.6	442
18	Drought decreases incorporation of recent plant photosynthate into soil food webs regardless of their trophic complexity. Global Change Biology, 2019, 25, 3549-3561.	9.5	37

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19	Global distribution of earthworm diversity. Science, 2019, 366, 480-485.	12.6	248
20	Applying the Aboveground-Belowground Interaction Concept in Agriculture: Spatio-Temporal Scales Matter. Frontiers in Ecology and Evolution, 2019, 7, .	2.2	20
21	Changes in rootâ€exudateâ€induced respiration reveal a novel mechanism through which drought affects ecosystem carbon cycling. New Phytologist, 2019, 224, 132-145.	7.3	150
22	Traditional plant functional groups explain variation in economic but not sizeâ€related traits across the tundra biome. Global Ecology and Biogeography, 2019, 28, 78-95.	5.8	49
23	Plant attributes explain the distribution of soil microbial communities in two contrasting regions of the globe. New Phytologist, 2018, 219, 574-587.	7.3	107
24	Detecting macroecological patterns in bacterial communities across independent studies of global soils. Nature Microbiology, 2018, 3, 189-196.	13.3	136
25	Plant functional trait change across a warming tundra biome. Nature, 2018, 562, 57-62.	27.8	451
26	Impacts of Climate Change on Soil Microbial Communities and Their Functioning. Developments in Soil Science, 2018, 35, 111-129.	0.5	14
27	Soil organic carbon dynamics matching ecological equilibrium theory. Ecology and Evolution, 2018, 8, 11169-11178.	1.9	18
28	Soil bacterial networks are less stable under drought than fungal networks. Nature Communications, 2018, 9, 3033.	12.8	992
29	Legacy effects of drought on plantâ€“soil feedbacks and plantâ€“plant interactions. New Phytologist, 2017, 215, 1413-1424.	7.3	213
30	Belowâ€ground connections underlying aboveâ€ground food production: a framework for optimising ecological connections in the rhizosphere. Journal of Ecology, 2017, 105, 913-920.	4.0	177
31	Soil Biodiversity and Ecosystem Functioning. , 2017, , 119-140.		1
32	Mapping local and global variability in plant trait distributions. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10937-E10946.	7.1	159
33	Knowledge needs, available practices, and future challenges in agricultural soils. Soil, 2016, 2, 511-521.	4.9	10
34	Plant nitrogen-use strategy as a driver of rhizosphere archaeal and bacterial ammonia oxidiser abundance. FEMS Microbiology Ecology, 2016, 92, fiw091.	2.7	76
35	Selecting cost effective and policy-relevant biological indicators for European monitoring of soil biodiversity and ecosystem function. Ecological Indicators, 2016, 69, 213-223.	6.3	80
36	Eating from the same plate? Revisiting the role of labile carbon inputs in the soil food web. Soil Biology and Biochemistry, 2016, 102, 4-9.	8.8	81

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37	Grassland species root response to drought: consequences for soil carbon and nitrogen availability. Plant and Soil, 2016, 409, 297-312.	3.7	110
38	Plant community controls on shortâ€term ecosystem nitrogen retention. New Phytologist, 2016, 210, 861-874.	7.3	92
39	Simple measures of climate, soil properties and plant traits predict nationalâ€scale grassland soil carbon stocks. Journal of Applied Ecology, 2015, 52, 1188-1196.	4.0	79
40	Disentangling plant and soil microbial controls on carbon and nitrogen loss in grassland mesocosms. Journal of Ecology, 2015, 103, 629-640.	4.0	34
41	Intensive agriculture reduces soil biodiversity across Europe. Global Change Biology, 2015, 21, 973-985.	9.5	641
42	Going underground: root traits as drivers of ecosystem processes. Trends in Ecology and Evolution, 2014, 29, 692-699.	8.7	881
43	Urban and agricultural soils: conflicts and trade-offs in the optimization of ecosystem services. Urban Ecosystems, 2014, 17, 239-253.	2.4	66
44	Hierarchical responses of plantâ€“soil interactions to climate change: consequences for the global carbon cycle. Journal of Ecology, 2013, 101, 334-343.	4.0	173
45	Soil food web properties explain ecosystem services across European land use systems. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14296-14301.	7.1	520
46	Controls on soil microbial community stability under climate change. Frontiers in Microbiology, 2013, 4, 265.	3.5	353
47	Abiotic drivers and plant traits explain landscapeâ€scale patterns in soil microbial communities. Ecology Letters, 2012, 15, 1230-1239.	6.4	511
48	Legacy effects of drought on plant growth and the soil food web. Oecologia, 2012, 170, 821-833.	2.0	94
49	Plantâ€“microbial linkages and ecosystem nitrogen retention: lessons for sustainable agriculture. Frontiers in Ecology and the Environment, 2012, 10, 425-432.	4.0	101
50	Linking soil biodiversity and agricultural soil management. Current Opinion in Environmental Sustainability, 2012, 4, 523-528.	6.3	190
51	Extensive Management Promotes Plant and Microbial Nitrogen Retention in Temperate Grassland. PLoS ONE, 2012, 7, e51201.	2.5	105
52	Land use alters the resistance and resilience of soil food webs to drought. Nature Climate Change, 2012, 2, 276-280.	18.8	480
53	Nitrogen losses from two grassland soils with different fungal biomass. Soil Biology and Biochemistry, 2011, 43, 997-1005.	8.8	104
54	High turnover of fungal hyphae in incubation experiments. FEMS Microbiology Ecology, 2009, 67, 389-396.	2.7	28

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55	A mixture of grass and clover combines the positive effects of both plant species on selected soil biota. Applied Soil Ecology, 2009, 42, 254-263.	4.3	63
56	Fungal biomass in pastures increases with age and reduced N input. Soil Biology and Biochemistry, 2007, 39, 1620-1630.	8.8	83
57	Heavy-Metal Concentrations in Small Mammals from a Diffusely Polluted Floodplain: Importance of Species- and Location-Specific Characteristics. Archives of Environmental Contamination and Toxicology, 2007, 52, 603-613.	4.1	79
58	Fungal/bacterial ratios in grasslands with contrasting nitrogen management. Soil Biology and Biochemistry, 2006, 38, 2092-2103.	8.8	453
59	Within-trophic group interactions of bacterivorous nematode species and their effects on the bacterial community and nitrogen mineralization. Oecologia, 2005, 142, 428-439.	2.0	73
60	Toward a global platform for linking soil biodiversity data. Frontiers in Ecology and Evolution, 0, 3, .	2.2	24
61	Dirt Is Not Dead: How Land Use Affects the Living Soil. Frontiers for Young Minds, 0, 8, .	0.8	0