David A Lipson

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9350418/publications.pdf

Version: 2024-02-01

49 papers	3,455 citations	201674 27 h-index	214800 47 g-index
49 all docs	49 docs citations	49 times ranked	5242 citing authors

#	Article	IF	Citations
1	Seasonal Dynamics of Previously Unknown Fungal Lineages in Tundra Soils. Science, 2003, 301, 1359-1361.	12.6	586
2	Seasonal Changes in an Alpine Soil Bacterial Community in the Colorado Rocky Mountains. Applied and Environmental Microbiology, 2004, 70, 2867-2879.	3.1	318
3	Cold season emissions dominate the Arctic tundra methane budget. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 40-45.	7.1	278
4	Links between Microbial Population Dynamics and Nitrogen Availability in an Alpine Ecosystem. Ecology, 1999, 80, 1623.	3.2	205
5	Global phylogeography and ancient evolution of the widespread human gut virus crAssphage. Nature Microbiology, 2019, 4, 1727-1736.	13.3	184
6	The complex relationship between microbial growth rate and yield and its implications for ecosystem processes. Frontiers in Microbiology, 2015, 6, 615.	3.5	170
7	Relationships between temperature responses and bacterial community structure along seasonal and altitudinal gradients. FEMS Microbiology Ecology, 2007, 59, 418-427.	2.7	123
8	Metagenomic Insights into Anaerobic Metabolism along an Arctic Peat Soil Profile. PLoS ONE, 2013, 8, e64659.	2.5	121
9	Reduction of iron (III) and humic substances plays a major role in anaerobic respiration in an Arctic peat soil. Journal of Geophysical Research, 2010, 115, .	3.3	119
10	The trade-off between growth rate and yield in microbial communities and the consequences for under-snow soil respiration in a high elevation coniferous forest. Biogeochemistry, 2009, 95, 23-35.	3.5	115
11	Effects of Elevated Atmospheric CO 2 on Soil Microbial Biomass, Activity, and Diversity in a Chaparral Ecosystem. Applied and Environmental Microbiology, 2005, 71, 8573-8580.	3.1	110
12	Grass invasion causes rapid increases in ecosystem carbon and nitrogen storage in a semiarid shrubland. Global Change Biology, 2010, 16, 1351-1365.	9.5	95
13	The contribution of beneath-snow soil respiration to total ecosystem respiration in a high-elevation, subalpine forest. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	4.9	84
14	Soil microbial responses to drought and exotic plants shift carbon metabolism. ISME Journal, 2019, 13, 1776-1787.	9.8	80
15	Methane suppression by iron and humic acids in soils of the Arctic Coastal Plain. Soil Biology and Biochemistry, 2015, 83, 176-183.	8.8	65
16	The contribution of Fe(III) and humic acid reduction to ecosystem respiration in drained thaw lake basins of the Arctic Coastal Plain. Global Biogeochemical Cycles, 2013, 27, 399-409.	4.9	55
17	Microbial macroecology: In search of mechanisms governing microbial biogeographic patterns. Global Ecology and Biogeography, 2020, 29, 1870-1886.	5.8	55
18	Relationships Between Microbial Community Structure and Soil Processes Under Elevated Atmospheric Carbon Dioxide. Microbial Ecology, 2006, 51, 302-314.	2.8	52

#	Article	IF	Citations
19	COSORE: A community database for continuous soil respiration and other soilâ€atmosphere greenhouse gas flux data. Global Change Biology, 2020, 26, 7268-7283.	9.5	50
20	A cost-effective and field-ready potentiostat that poises subsurface electrodes to monitor bacterial respiration. Biosensors and Bioelectronics, 2012, 32, 309-313.	10.1	49
21	Topâ€down control of microbial activity and biomass in an Arctic soil ecosystem. Environmental Microbiology, 2010, 12, 642-648.	3.8	43
22	Increased CO₂ loss from vegetated drained lake tundra ecosystems due to flooding. Global Biogeochemical Cycles, 2012, 26, .	4.9	43
23	Changes in microbial communities along redox gradients in polygonized <scp>A</scp>rctic wet tundra soils. Environmental Microbiology Reports, 2015, 7, 649-657.	2.4	42
24	Growth of Eastern Cottonwoods (Populus deltoides) in elevated [CO2] stimulates stand-level respiration and rhizodeposition of carbohydrates, accelerates soil nutrient depletion, yet stimulates above- and belowground biomass production. Global Change Biology, 2005, 11, 1220-1233.	9.5	41
25	Direct and indirect effects of shifting rainfall on soil microbial respiration and enzyme activity in a semi-arid system. Plant and Soil, 2017, 411, 333-346.	3.7	39
26	Microbial community structure and soil p<scp>H</scp> correspond to methane production in <scp>A</scp>rctic <scp>A</scp>laska soils. Environmental Microbiology, 2017, 19, 3398-3410.	3.8	33
27	Trichotorquatus gen. nov. â€•a new genus of soil cyanobacteria discovered from American drylands¹. Journal of Phycology, 2021, 57, 886-902.	2.3	29
28	Elevated atmospheric CO 2 stimulates soil fungal diversity through increased fine root production in a semiarid shrubland ecosystem. Global Change Biology, 2014, 20, 2555-2565.	9.5	28
29	Differential responses of native and exotic coastal sage scrub plant species to N additions and the soil microbial community. Plant and Soil, 2013, 371, 37-51.	3.7	27
30	Snow melt stimulates ecosystem respiration in Arctic ecosystems. Global Change Biology, 2020, 26, 5042-5051.	9.5	23
31	Mechanistic Modeling of Microtopographic Impacts on CO₂ and CH₄ Fluxes in an Alaskan Tundra Ecosystem Using the CLMâ€Microbe Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 4288-4304.	3.8	22
32	Anaerobic Methane Oxidation in High-Arctic Alaskan Peatlands as a Significant Control on Net CH4 Fluxes. Soil Systems, 2019, 3, 7.	2.6	20
33	Phosphorus alleviation of nitrogenâ€suppressed methane sink in global grasslands. Ecology Letters, 2020, 23, 821-830.	6.4	18
34	Controls on soil microbial carbon use efficiency over long-term ecosystem development. Biogeochemistry, 2021, 152, 309-325.	3.5	17
35	Biological chlorine cycling in the Arctic Coastal Plain. Biogeochemistry, 2017, 134, 243-260.	3.5	16
36	Earlier snowmelt may lead to late season declines in plant productivity and carbon sequestration in Arctic tundra ecosystems. Scientific Reports, 2022, 12, 3986.	3.3	16

#	Article	IF	Citations
37	Invasion and drought alter phenological sensitivity and synergistically lower ecosystem production. Ecology, 2019, 100, e02802.	3.2	14
38	Drought in Southern California coastal sage scrub reduces herbaceous biomass of exotic species more than native species, but exotic growth recovers quickly when drought ends. Plant Ecology, 2019, 220, 151-169.	1.6	13
39	Dynamics of Fungal and Bacterial Biomass Carbon in Natural Ecosystems: Siteâ€Level Applications of the CLMâ€Microbe Model. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002283.	3.8	11
40	Potentiostatically Poised Electrodes Mimic Iron Oxide and Interact with Soil Microbial Communities to Alter the Biogeochemistry of Arctic Peat Soils. Minerals (Basel, Switzerland), 2013, 3, 318-336.	2.0	10
41	Seasonal Patterns of Dry Deposition at a Highâ€Elevation Site in the Colorado Rocky Mountains. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11,183.	3.3	10
42	Groundwater-surface water interactions and flux of organic matter and nutrients in an urban, Mediterranean stream. Science of the Total Environment, 2022, 811, 152379.	8.0	9
43	Temperature Response of Respiration Across the Heterogeneous Landscape of the Alaskan Arctic Tundra. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2287-2302.	3.0	8
44	Dust deposition drives microbial metabolism in a remote, high-elevation catchment. Holocene, 2020, 30, 589-596.	1.7	4
45	Organohalide-Respiring Bacteria at the Heart of Anaerobic Metabolism in Arctic Wet Tundra Soils. Applied and Environmental Microbiology, 2021, 87, .	3.1	2
46	Ecosystem Scale Implication of Soil CO₂ Concentration Dynamics During Soil Freezing in Alaskan Arctic Tundra Ecosystems. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG005724.	3.0	2
47	Integrating Soil Microbiology into Ecosystem Science. Advances in Environmental Microbiology, 2019, , 65-102.	0.3	1
48	Molecular Mirror Technology Facilitates High-Throughput, Accurate SARS-CoV-2 Testing. Microbiology Spectrum, 2021, 9, e0039221.	3.0	0
49	Upscaling Methane Flux From Plot Level to Eddy Covariance Tower Domains in Five Alaskan Tundra Ecosystems. Frontiers in Environmental Science, 0, 10, .	3.3	0