David A Lipson

List of Publications by Year
in descending order

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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	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
2	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
3	Organohalide-Respiring Bacteria at the Heart of Anaerobic Metabolism in Arctic Wet Tundra Soils. Applied and Environmental Microbiology, 2021, 87, .	3.1	2
4	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
5	Controls on soil microbial carbon use efficiency over long-term ecosystem development. Biogeochemistry, 2021, 152, 309-325.	3.5	17
6	Trichotorquatus gen. nov. â€•a new genus of soil cyanobacteria discovered from American drylands¹. Journal of Phycology, 2021, 57, 886-902.	2.3	29
7	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
8	Molecular Mirror Technology Facilitates High-Throughput, Accurate SARS-CoV-2 Testing. Microbiology Spectrum, 2021, 9, e0039221.	3.0	0
9	Dust deposition drives microbial metabolism in a remote, high-elevation catchment. Holocene, 2020, 30, 589-596.	1.7	4
10	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
11	Microbial macroecology: In search of mechanisms governing microbial biogeographic patterns. Global Ecology and Biogeography, 2020, 29, 1870-1886.	5.8	55
12	Snow melt stimulates ecosystem respiration in Arctic ecosystems. Global Change Biology, 2020, 26, 5042-5051.	9.5	23
13	Phosphorus alleviation of nitrogenâ€suppressed methane sink in global grasslands. Ecology Letters, 2020, 23, 821-830.	6.4	18
14	Global phylogeography and ancient evolution of the widespread human gut virus crAssphage. Nature Microbiology, 2019, 4, 1727-1736.	13.3	184
15	Invasion and drought alter phenological sensitivity and synergistically lower ecosystem production. Ecology, 2019, 100, e02802.	3.2	14
16	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
17	Anaerobic Methane Oxidation in High-Arctic Alaskan Peatlands as a Significant Control on Net CH4 Fluxes. Soil Systems, 2019, 3, 7.	2.6	20
18	Integrating Soil Microbiology into Ecosystem Science. Advances in Environmental Microbiology, 2019, , 65-102.	0.3	1

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19	Soil microbial responses to drought and exotic plants shift carbon metabolism. ISME Journal, 2019, 13, 1776-1787.	9.8	80
20	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
21	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
22	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
23	Biological chlorine cycling in the Arctic Coastal Plain. Biogeochemistry, 2017, 134, 243-260.	3.5	16
24	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
25	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
26	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
27	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
28	The complex relationship between microbial growth rate and yield and its implications for ecosystem processes. Frontiers in Microbiology, 2015, 6, 615.	3.5	170
29	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
30	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
31	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
32	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
33	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
34	Metagenomic Insights into Anaerobic Metabolism along an Arctic Peat Soil Profile. PLoS ONE, 2013, 8, e64659.	2.5	121
35	Increased CO₂ loss from vegetated drained lake tundra ecosystems due to flooding. Global Biogeochemical Cycles, 2012, 26, .	4.9	43
36	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

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37	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
38	Topâ€down control of microbial activity and biomass in an Arctic soil ecosystem. Environmental Microbiology, 2010, 12, 642-648.	3.8	43
39	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
40	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
41	Relationships between temperature responses and bacterial community structure along seasonal and altitudinal gradients. FEMS Microbiology Ecology, 2007, 59, 418-427.	2.7	123
42	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
43	Relationships Between Microbial Community Structure and Soil Processes Under Elevated Atmospheric Carbon Dioxide. Microbial Ecology, 2006, 51, 302-314.	2.8	52
44	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
45	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
46	Seasonal Changes in an Alpine Soil Bacterial Community in the Colorado Rocky Mountains. Applied and Environmental Microbiology, 2004, 70, 2867-2879.	3.1	318
47	Seasonal Dynamics of Previously Unknown Fungal Lineages in Tundra Soils. Science, 2003, 301, 1359-1361.	12.6	586
48	Links between Microbial Population Dynamics and Nitrogen Availability in an Alpine Ecosystem. Ecology, 1999, 80, 1623.	3.2	205
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