

Michael N Weintraub

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

9,744
citations

145106

33
h-index

175968

55
g-index

57
all docs

57
docs citations

57
times ranked

10190
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil enzymes in response to climate warming: Mechanisms and feedbacks. <i>Functional Ecology</i> , 2022, 36, 1378-1395.	1.7	44
2	Biogeochemical and ecosystem properties in three adjacent semi-arid grasslands are resistant to nitrogen deposition but sensitive to edaphic variability. <i>Journal of Ecology</i> , 2022, 110, 1615-1631.	1.9	13
3	Can we reduce phosphorus runoff from agricultural fields by stimulating soil biota?. <i>Journal of Environmental Quality</i> , 2020, 49, 933-944.	1.0	5
4	Labile carbon limits late winter microbial activity near Arctic treeline. <i>Nature Communications</i> , 2020, 11, 4024.	5.8	22
5	Does stimulating ground arthropods enhance nutrient cycling in conventionally managed corn fields?. <i>Agriculture, Ecosystems and Environment</i> , 2020, 297, 106934.	2.5	5
6	Experimentally warmer and drier conditions in an Arctic plant community reveal microclimatic controls on senescence. <i>Ecosphere</i> , 2019, 10, e02677.	1.0	10
7	Limited effects of early snowmelt on plants, decomposers, and soil nutrients in Arctic tundra soils. <i>Ecology and Evolution</i> , 2019, 9, 1820-1844.	0.8	17
8	Cross-laboratory comparison of fluorimetric microplate and colorimetric bench-scale soil enzyme assays. <i>Soil Biology and Biochemistry</i> , 2018, 121, 240-248.	4.2	22
9	The evolution and application of the reverse Michaelis-Menten equation. <i>Soil Biology and Biochemistry</i> , 2018, 125, 261-262.	4.2	22
10	Comparison and standardization of soil enzyme assay for meaningful data interpretation. <i>Journal of Microbiological Methods</i> , 2017, 133, 32-34.	0.7	19
11	Seasonal patterns of soil nitrogen availability in moist acidic tundra. <i>Arctic Science</i> , 2017, , .	0.9	7
12	Earlier snowmelt and warming lead to earlier but not necessarily more plant growth. <i>AoB PLANTS</i> , 2016, 8, .	1.2	60
13	Guiding phosphorus stewardship for multiple ecosystem services. <i>Ecosystem Health and Sustainability</i> , 2016, 2, .	1.5	30
14	Nitrogen alters microbial enzyme dynamics but not lignin chemistry during maize decomposition. <i>Biogeochemistry</i> , 2016, 128, 171-186.	1.7	31
15	Eleven years of crop diversification alters decomposition dynamics of litter mixtures incubated with soil. <i>Ecosphere</i> , 2016, 7, e01426.	1.0	25
16	Vector analysis of coenzyme activities reveal constraints on coupled C, N and P dynamics. <i>Soil Biology and Biochemistry</i> , 2016, 93, 1-7.	4.2	344
17	Integrating legacy soil phosphorus into sustainable nutrient management strategies for future food, bioenergy and water security. <i>Nutrient Cycling in Agroecosystems</i> , 2016, 104, 393-412.	1.1	199
18	Seasonal Effects Stronger than Three-Year Climate Manipulation on Grassland Soil Microbial Community. <i>Soil Science Society of America Journal</i> , 2015, 79, 1352-1365.	1.2	21

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19	Microbial activity is not always limited by nitrogen in Arctic tundra soils. <i>Soil Biology and Biochemistry</i> , 2015, 90, 52-61.	4.2	21
20	Extracellular enzymes in terrestrial, freshwater, and marine environments: perspectives on system variability and common research needs. <i>Biogeochemistry</i> , 2014, 117, 5-21.	1.7	146
21	Evidence for spatially inaccessible labile N from a comparison of soil core extractions and soil pore water lysimetry. <i>Soil Biology and Biochemistry</i> , 2014, 73, 22-32.	4.2	44
22	Crop rotation complexity regulates the decomposition of high and low quality residues. <i>Soil Biology and Biochemistry</i> , 2014, 78, 243-254.	4.2	133
23	Impact of a short-term heat event on C and N relations in shoots vs. roots of the stress-tolerant C4 grass, <i>Andropogon gerardii</i> . <i>Journal of Plant Physiology</i> , 2014, 171, 977-985.	1.6	20
24	Interactions between leaf litter quality, particle size, and microbial community during the earliest stage of decay. <i>Biogeochemistry</i> , 2014, 117, 153-168.	1.7	59
25	Fluorescent microplate analysis of amino acids and other primary amines in soils. <i>Soil Biology and Biochemistry</i> , 2013, 57, 78-82.	4.2	39
26	Calculating co-metabolic costs of lignin decay and their impacts on carbon use efficiency. <i>Soil Biology and Biochemistry</i> , 2013, 66, 17-19.	4.2	47
27	Measuring phenol oxidase and peroxidase activities with pyrogallol, l-DOPA, and ABTS: Effect of assay conditions and soil type. <i>Soil Biology and Biochemistry</i> , 2013, 67, 183-191.	4.2	182
28	Soil enzymes in a changing environment: Current knowledge and future directions. <i>Soil Biology and Biochemistry</i> , 2013, 58, 216-234.	4.2	1,535
29	Field and lab conditions alter microbial enzyme and biomass dynamics driving decomposition of the same leaf litter. <i>Frontiers in Microbiology</i> , 2013, 4, 260.	1.5	27
30	Response to Steen and Ziervogel's comment on "Optimization of hydrolytic and oxidative enzyme methods to ecosystem studies" [<i>Soil Biology & Biochemistry</i> 43: 1387-1397]. <i>Soil Biology and Biochemistry</i> , 2012, 48, 198-199.	4.2	3
31	Microbial substrate preference and community dynamics during decomposition of <i>Acer saccharum</i> . <i>Fungal Ecology</i> , 2011, 4, 396-407.	0.7	57
32	The Effect of Trails on Soil in the Oak Openings of Northwest Ohio. <i>Natural Areas Journal</i> , 2011, 31, 391-399.	0.2	1
33	Relationship between soil enzyme activities, nutrient cycling and soil fungal communities in a northern hardwood forest. <i>Soil Biology and Biochemistry</i> , 2011, 43, 795-803.	4.2	187
34	Optimization of hydrolytic and oxidative enzyme methods for ecosystem studies. <i>Soil Biology and Biochemistry</i> , 2011, 43, 1387-1397.	4.2	794
35	Influence of Timber Harvesting Alternatives on Forest Soil Respiration and Its Biophysical Regulatory Factors over a 5-year Period in the Missouri Ozarks. <i>Ecosystems</i> , 2011, 14, 1310-1327.	1.6	17
36	Biological Phosphorus Cycling in Arctic and Alpine Soils. <i>Soil Biology</i> , 2011, , 295-316.	0.6	22

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37	Evolutionary-Economic Principles as Regulators of Soil Enzyme Production and Ecosystem Function. <i>Soil Biology</i> , 2010, , 229-243.	0.6	124
38	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. <i>Biogeochemistry</i> , 2009, 95, 23-35.	1.7	115
39	Stoichiometry of soil enzyme activity at global scale. <i>Ecology Letters</i> , 2008, 11, 1252-1264.	3.0	1,684
40	The effects of chronic nitrogen fertilization on alpine tundra soil microbial communities: implications for carbon and nitrogen cycling. <i>Environmental Microbiology</i> , 2008, 10, 3093-3105.	1.8	252
41	Emerging tools for measuring and modeling the in situ activity of soil extracellular enzymes. <i>Soil Biology and Biochemistry</i> , 2008, 40, 2098-2106.	4.2	278
42	The earliest stages of ecosystem succession in high-elevation (5000 metres above sea level), recently deglaciated soils. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 2793-2802.	1.2	222
43	BIOGEOCHEMICAL CONSEQUENCES OF RAPID MICROBIAL TURNOVER AND SEASONAL SUCCESSION IN SOIL. <i>Ecology</i> , 2007, 88, 1379-1385.	1.5	297
44	Carbon structure and enzyme activities in alpine and forest ecosystems. <i>Soil Biology and Biochemistry</i> , 2007, 39, 2701-2711.	4.2	106
45	The effects of tree rhizodeposition on soil exoenzyme activity, dissolved organic carbon, and nutrient availability in a subalpine forest ecosystem. <i>Oecologia</i> , 2007, 154, 327-338.	0.9	209
46	The contribution of beneath-snow soil respiration to total ecosystem respiration in a high-elevation, subalpine forest. <i>Global Biogeochemical Cycles</i> , 2006, 20, n/a-n/a.	1.9	84
47	Seasonal protein dynamics in Alaskan arctic tundra soils. <i>Soil Biology and Biochemistry</i> , 2005, 37, 1469-1475.	4.2	94
48	The seasonal dynamics of amino acids and other nutrients in Alaskan Arctic tundra soils. <i>Biogeochemistry</i> , 2005, 73, 359-380.	1.7	137
49	Structure and function of alpine and arctic soil microbial communities. <i>Research in Microbiology</i> , 2005, 156, 775-784.	1.0	110
50	Nitrogen Cycling and the Spread of Shrubs Control Changes in the Carbon Balance of Arctic Tundra Ecosystems. <i>BioScience</i> , 2005, 55, 408.	2.2	154
51	Persulfate Digestion and Simultaneous Colorimetric Analysis of Carbon and Nitrogen in Soil Extracts. <i>Soil Science Society of America Journal</i> , 2004, 68, 669-676.	1.2	94
52	Persulfate Digestion and Simultaneous Colorimetric Analysis of Carbon and Nitrogen in Soil Extracts. <i>Soil Science Society of America Journal</i> , 2004, 68, 669.	1.2	40
53	Interactions between Carbon and Nitrogen Mineralization and Soil Organic Matter Chemistry in Arctic Tundra Soils. <i>Ecosystems</i> , 2003, 6, 129-143.	1.6	258
54	The implications of exoenzyme activity on microbial carbon and nitrogen limitation in soil: a theoretical model. <i>Soil Biology and Biochemistry</i> , 2003, 35, 549-563.	4.2	1,237