

Peter M Homyak

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

843
citations

586496

16
h-index

685536

24
g-index

25
all docs

25
docs citations

25
times ranked

1408
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Drought Manipulation on Soil Nitrogen Cycling: A Meta-Analysis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 3260-3272.	1.3	124
2	Aridity and plant uptake interact to make dryland soils hotspots for nitric oxide (NO) emissions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2608-16.	3.3	89
3	Soil carbon and nitrogen dynamics throughout the summer drought in a California annual grassland. <i>Soil Biology and Biochemistry</i> , 2017, 115, 54-62.	4.2	82
4	Linking NO and N ₂ O emission pulses with the mobilization of mineral and organic N upon rewetting dry soils. <i>Soil Biology and Biochemistry</i> , 2017, 115, 461-466.	4.2	81
5	Effects of altered dry season length and plant inputs on soluble soil carbon. <i>Ecology</i> , 2018, 99, 2348-2362.	1.5	60
6	Assessing Nitrogen-Saturation in a Seasonally Dry Chaparral Watershed: Limitations of Traditional Indicators of N-Saturation. <i>Ecosystems</i> , 2014, 17, 1286-1305.	1.6	55
7	Cellular and extracellular C contributions to respiration after wetting dry soil. <i>Biogeochemistry</i> , 2020, 147, 307-324.	1.7	38
8	Nitrogen immobilization by wood-chip application: Protecting water quality in a northern hardwood forest. <i>Forest Ecology and Management</i> , 2008, 255, 2589-2601.	1.4	36
9	Acidity and organic matter promote abiotic nitric oxide production in drying soils. <i>Global Change Biology</i> , 2017, 23, 1735-1747.	4.2	35
10	Influence of soil moisture on the seasonality of nitric oxide emissions from chaparral soils, Sierra Nevada, California, USA. <i>Journal of Arid Environments</i> , 2014, 103, 46-52.	1.2	28
11	Improving Nitrite Analysis in Soils: Drawbacks of the Conventional 2 M KCl Extraction. <i>Soil Science Society of America Journal</i> , 2015, 79, 1237-1242.	1.2	27
12	Wet Spots as Hotspots: Moisture Responses of Nitric and Nitrous Oxide Emissions From Poorly Drained Agricultural Soils. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 3589-3602.	1.3	27
13	Changes in abundance and composition of nitrifying communities in barley (<i>Hordeum vulgare</i> L.) rhizosphere and bulk soils over the growth period following combined biochar and urea amendment. <i>Biology and Fertility of Soils</i> , 2020, 56, 169-183.	2.3	22
14	Root-microbial interaction accelerates soil nitrogen depletion but not soil carbon after increasing litter inputs to a coniferous forest. <i>Plant and Soil</i> , 2019, 444, 153-164.	1.8	21
15	Large nitrogen oxide emission pulses from desert soils and associated microbiomes. <i>Biogeochemistry</i> , 2020, 149, 239-250.	1.7	20
16	Pools, transformations, and sources of P in high-elevation soils: Implications for nutrient transfer to Sierra Nevada lakes. <i>Geoderma</i> , 2014, 217-218, 65-73.	2.3	18
17	Rapid nitrate reduction produces pulsed NO and N ₂ O emissions following wetting of dryland soils. <i>Biogeochemistry</i> , 2022, 158, 233-250.	1.7	17
18	Amino acids dominate diffusive nitrogen fluxes across soil depths in acidic tussock tundra. <i>New Phytologist</i> , 2021, 231, 2162-2173.	3.5	13

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19	Quantifying atmospheric N deposition in dryland ecosystems: A test of the Integrated Total Nitrogen Input (ITNI) method. <i>Science of the Total Environment</i> , 2019, 646, 1253-1264.	3.9	12
20	Water-conscious management strategies reduce per-yield irrigation and soil emissions of CO ₂ , N ₂ O, and NO in high-temperature forage cropping systems. <i>Agriculture, Ecosystems and Environment</i> , 2022, 332, 107944.	2.5	12
21	The consequences of climate change for dryland biogeochemistry. <i>New Phytologist</i> , 2022, 236, 15-20.	3.5	12
22	Phosphorus in sediments of high-elevation lakes in the Sierra Nevada (California): implications for internal phosphorus loading. <i>Aquatic Sciences</i> , 2014, 76, 511-525.	0.6	10
23	High resolution measurements reveal abiotic and biotic mechanisms of elevated nitric oxide emission after wetting dry soil. <i>Soil Biology and Biochemistry</i> , 2021, 160, 108316.	4.2	2
24	Rock-Sourced Nitrogen in Semi-Arid, Shale-Derived California Soils. <i>Frontiers in Forests and Global Change</i> , 2021, 4, .	1.0	1