Peter M Homyak

List of Publications by Year
in descending order

24 papers	843 citations	516710 16 h-index	610901 24 g-index
25 all docs	25 docs citations	25 times ranked	1227 citing authors

#	Article	IF	Citations
1	Effects of Drought Manipulation on Soil Nitrogen Cycling: A Metaâ€Analysis. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 3260-3272.	3.0	124
2	Aridity and plant uptake interact to make dryland soils hotspots for nitric oxide (NO) emissions. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2608-16.	7.1	89
3	Soil carbon and nitrogen dynamics throughout the summer drought in a California annual grassland. Soil Biology and Biochemistry, 2017, 115, 54-62.	8.8	82
4	Linking NO and N2O emission pulses with the mobilization of mineral and organic N upon rewetting dry soils. Soil Biology and Biochemistry, 2017, 115, 461-466.	8.8	81
5	Effects of altered dry season length and plant inputs on soluble soil carbon. Ecology, 2018, 99, 2348-2362.	3.2	60
6	Assessing Nitrogen-Saturation in a Seasonally Dry Chaparral Watershed: Limitations of Traditional Indicators of N-Saturation. Ecosystems, 2014, 17, 1286-1305.	3.4	55
7	Cellular and extracellular C contributions to respiration after wetting dry soil. Biogeochemistry, 2020, 147, 307-324.	3.5	38
8	Nitrogen immobilization by wood-chip application: Protecting water quality in a northern hardwood forest. Forest Ecology and Management, 2008, 255, 2589-2601.	3.2	36
9	Acidity and organic matter promote abiotic nitric oxide production in drying soils. Global Change Biology, 2017, 23, 1735-1747.	9.5	35
10	Influence of soil moisture on the seasonality of nitric oxide emissions from chaparral soils, Sierra Nevada, California, USA. Journal of Arid Environments, 2014, 103, 46-52.	2.4	28
11	Improving Nitrite Analysis in Soils: Drawbacks of the Conventional 2 M KCl Extraction. Soil Science Society of America Journal, 2015, 79, 1237-1242.	2.2	27
12	Wet Spots as Hotspots: Moisture Responses of Nitric and Nitrous Oxide Emissions From Poorly Drained Agricultural Soils. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 3589-3602.	3.0	27
13	Changes in abundance and composition of nitrifying communities in barley (Hordeum vulgare L.) rhizosphere and bulk soils over the growth period following combined biochar and urea amendment. Biology and Fertility of Soils, 2020, 56, 169-183.	4.3	22
14	Rootâ€“microbial interaction accelerates soil nitrogen depletion but not soil carbon after increasing litter inputs to a coniferous forest. Plant and Soil, 2019, 444, 153-164.	3.7	21
15	Large nitrogen oxide emission pulses from desert soils and associated microbiomes. Biogeochemistry, 2020, 149, 239-250.	3.5	20
16	Pools, transformations, and sources of P in high-elevation soils: Implications for nutrient transfer to Sierra Nevada lakes. Geoderma, 2014, 217-218, 65-73.	5.1	18
17	Rapid nitrate reduction produces pulsed NO and N2O emissions following wetting of dryland soils. Biogeochemistry, 2022, 158, 233-250.	3.5	17
18	Amino acids dominate diffusive nitrogen fluxes across soil depths in acidic tussock tundra. New Phytologist, 2021, 231, 2162-2173.	7.3	13

#	Article	IF	Citations
19	Quantifying atmospheric N deposition in dryland ecosystems: A test of the Integrated Total Nitrogen Input (ITNI) method. Science of the Total Environment, 2019, 646, 1253-1264.	8.0	12
20	Water-conscious management strategies reduce per-yield irrigation and soil emissions of CO2, N2O, and NO in high-temperature forage cropping systems. Agriculture, Ecosystems and Environment, 2022, 332, 107944.	5.3	12
21	The consequences of climate change for dryland biogeochemistry. New Phytologist, 2022, 236, 15-20.	7.3	12
22	Phosphorus in sediments of high-elevation lakes in the Sierra Nevada (California): implications for internal phosphorus loading. Aquatic Sciences, 2014, 76, 511-525.	1.5	10
23	High resolution measurements reveal abiotic and biotic mechanisms of elevated nitric oxide emission after wetting dry soil. Soil Biology and Biochemistry, 2021, 160, 108316.	8.8	2
24	Rock-Sourced Nitrogen in Semi-Arid, Shale-Derived California Soils. Frontiers in Forests and Global Change, 2021, 4, .	2.3	1