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List of Publications by Year
in descending order

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45 papers	3,593 citations	218677 26 h-index	243625 44 g-index
45 all docs	45 docs citations	45 times ranked	4554 citing authors

#	Article	IF	Citations
1	Land use conversion and soil moisture affect the magnitude and pattern of soil-borne N2, NO, and N2O emissions. Geoderma, 2022, 407, 115568.	5.1	14
2	Climate Overrides Effects of Fertilizer and Straw Management as Controls of Nitrous Oxide Emissions After Oilseed Rape Harvest. Frontiers in Environmental Science, 2022, 9, .	3.3	2
3	Inhibitory effect of high nitrate on N2O reduction is offset by long moist spells in heavily N loaded arable soils. Biology and Fertility of Soils, 2022, 58, 77-90.	4.3	11
4	Optimization of Potassium Supply under Osmotic Stress Mitigates Oxidative Damage in Barley. Plants, 2022, 11, 55.	3.5	10
5	Microbial potential for denitrification in the hyperarid Atacama Desert soils. Soil Biology and Biochemistry, 2021, 157, 108248.	8.8	13
6	Regulation of the product stoichiometry of denitrification in intensively managed soils. Food and Energy Security, 2020, 9, e251.	4.3	7
7	Rhizosphere processes in nitrate-rich barley soil tripled both N2O and N2 losses due to enhanced bacterial and fungal denitrification. Plant and Soil, 2020, 448, 509-522.	3.7	18
8	Sulfur-enriched leonardite and humic acid soil amendments enhance tolerance to drought and phosphorus deficiency stress in maize (Zea mays L.). Scientific Reports, 2020, 10, 6432.	3.3	95
9	A critique of the paper â€˜Estimate of bacterial and fungal N2O production processes after crop residue input and fertilizer application to an agricultural field by 15N isotopomer analysisâ€™, by Yamamoto et al. (2017), Soil Biology & Biochemistry 108, 9â€“16. Soil Biology and Biochemistry, 2019, 135, 450-451.	8.8	2
10	Effect of biochar origin and soil type on the greenhouse gas emission and the bacterial community structure in N fertilised acidic sandy and alkaline clay soil. Science of the Total Environment, 2019, 660, 69-79.	8.0	54
11	Soil NO3â˜ level and O2 availability are key factors in controlling N2O reduction to N2 following long-term liming of an acidic sandy soil. Soil Biology and Biochemistry, 2019, 132, 165-173.	8.8	61
12	Post-harvest N 2 O and CO 2 emissions related to plant residue incorporation of oilseed rape and barley straw depend on soil NO 3 - content. Soil and Tillage Research, 2018, 179, 105-113.	5.6	18
13	Leaf, canopy and agronomic waterâ€use efficiency of fieldâ€grown sugar beet in response to potassium fertilization. Journal of Agronomy and Crop Science, 2018, 204, 99-110.	3.5	17
14	Straw amendment with nitrate-N decreased N2O/(N2O+N2) ratio but increased soil N2O emission: A case study of direct soil-born N2 measurements. Soil Biology and Biochemistry, 2018, 127, 301-304.	8.8	49
15	Interaction of straw amendment and soil NO3â˜ content controls fungal denitrification and denitrification product stoichiometry in a sandy soil. Soil Biology and Biochemistry, 2018, 126, 204-212.	8.8	61
16	Effect of biochar origin and soil pH on greenhouse gas emissions from sandy and clay soils. Applied Soil Ecology, 2018, 129, 121-127.	4.3	98
17	Optimized potassium nutrition improves plant-water-relations of barley under PEG-induced osmotic stress. Plant and Soil, 2018, 430, 23-35.	3.7	29
18	Studying CO2 from plant respiration in controlled and natural environment: How can plant breeding industry benefit from it? (Conference Presentation). , 2018, , .		0

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19	Quantitative limitations to photosynthesis in K deficient sunflower and their implications on water-use efficiency. Journal of Plant Physiology, 2017, 209, 20-30.	3.5	83
20	Nitrification inhibitors mitigate N2O emissions more effectively under straw-induced conditions favoring denitrification. Soil Biology and Biochemistry, 2017, 104, 197-207.	8.8	98
21	Adequate supply of potassium improves plant waterâ€use efficiency but not leaf waterâ€use efficiency of spring wheat. Journal of Plant Nutrition and Soil Science, 2016, 179, 733-745.	1.9	30
22	Magnesium deficiency decreases biomass water-use efficiency and increases leaf water-use efficiency and oxidative stress in barley plants. Plant and Soil, 2016, 406, 409-423.	3.7	54
23	Legume-based mixed intercropping systems may lower agricultural born N2O emissions. Energy, Sustainability and Society, 2015, 6, .	3.8	35
24	Potential use of rare earth oxides as tracers of organic matter in grassland. Journal of Plant Nutrition and Soil Science, 2015, 178, 288-296.	1.9	9
25	Role of magnesium fertilisers in agriculture: plantâ€“soil continuum. Crop and Pasture Science, 2015, 66, 1219.	1.5	195
26	Anaerobic digestates lower N2O emissions compared to cattle slurry by affecting rate and product stoichiometry of denitrification â€“ An N2O isotopomer case study. Soil Biology and Biochemistry, 2015, 84, 65-74.	8.8	57
27	Fast responses of metabolites in Vicia faba L. to moderate NaCl stress. Plant Physiology and Biochemistry, 2015, 92, 19-29.	5.8	19
28	Daytime leaf water use efficiency does not explain the relationship between plant N status and biomass water-use efficiency of tobacco under non-limiting water supply. Journal of Plant Nutrition and Soil Science, 2015, 178, 682-692.	1.9	8
29	The Activity of Nodules of the Supernodulating Mutant Mtsunn Is not Limited by Photosynthesis under Optimal Growth Conditions. International Journal of Molecular Sciences, 2014, 15, 6031-6045.	4.1	15
30	Effect of mineral nitrogen fertilizer forms on N₂O emissions from arable soils in winter wheat production. Journal of Plant Nutrition and Soil Science, 2014, 177, 722-732.	1.9	26
31	Life-cycle assessment of biogas production under the environmental conditions of northern Germany: greenhouse gas balance. Journal of Agricultural Science, 2014, 152, 172-181.	1.3	17
32	Soil C and N availability determine the priming effect: microbial N mining and stoichiometric decomposition theories. Global Change Biology, 2014, 20, 2356-2367.	9.5	758
33	Experimental determinations of isotopic fractionation factors associated with N2O production and reduction during denitrification in soils. Geochimica Et Cosmochimica Acta, 2014, 134, 55-73.	3.9	81
34	Potassium in agriculture â€“ Status and perspectives. Journal of Plant Physiology, 2014, 171, 656-669.	3.5	725
35	Impact of mineral N fertilizer application rates on N2O emissions from arable soils under winter wheat. Nutrient Cycling in Agroecosystems, 2014, 100, 111-120.	2.2	30
36	Emission of N2O from Biogas Crop Production Systems in Northern Germany. Bioenergy Research, 2014, 7, 1223-1236.	3.9	34

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37	Legume-based forage production systems reduce nitrous oxide emissions. Soil and Tillage Research, 2014, 143, 17-25.	5.6	49
38	Soil denitrification potential and its influence on N₂O reduction and N₂O isotopomer ratios. Rapid Communications in Mass Spectrometry, 2013, 27, 2363-2373.	1.5	46
39	Decomposition of biogas residues in soil and their effects on microbial growth kinetics and enzyme activities. Biomass and Bioenergy, 2012, 45, 221-229.	5.7	90
40	N2O emission and the N2O/(N2O+N2) product ratio of denitrification as controlled by available carbon substrates and nitrate concentrations. Agriculture, Ecosystems and Environment, 2012, 147, 4-12.	5.3	313
41	Rapid shift from denitrification to nitrification in soil after biogas residue application as indicated by nitrous oxide isotopomers. Soil Biology and Biochemistry, 2011, 43, 1671-1677.	8.8	62
42	Origin of positive Î´13C of emitted CO2 from soils after application of biogas residues. Soil Biology and Biochemistry, 2011, 43, 2194-2199.	8.8	7
43	Contribution of nitrification and denitrification to nitrous oxide emissions from soils after application of biogas waste and other fertilizers. Rapid Communications in Mass Spectrometry, 2009, 23, 2489-2498.	1.5	111
44	Low nitrogen supply decreases waterâ€use efficiency of oriental tobacco. Journal of Plant Nutrition and Soil Science, 2009, 172, 216-223.	1.9	26
45	Longâ€term influence of manure and mineral nitrogen applications on plant and soil ¹⁵N and ¹³C values from the Broadbalk Wheat Experiment. Rapid Communications in Mass Spectrometry, 2008, 22, 1735-1740.	1.5	56