Dominika Lewicka-Szczebak

List of Publications by Year
in descending order

36	1,396	331670	345221
papers	citations	21 h-index	36 g-index

47	47	47	1235
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The nitrogen cycle: A review of isotope effects and isotope modeling approaches. Soil Biology and Biochemistry, 2017, 105, 121-137.	8.8	259
2	Quantifying N₂O reduction to N₂ based on N₂O isotopocules â€“ validation with independent methods (helium incubation and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 692 Td (<s	3.3	116
3	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
4	Dual isotope and isotopomer signatures of nitrous oxide from fungal denitrification - a pure culture study. Rapid Communications in Mass Spectrometry, 2014, 28, 1893-1903.	1.5	71
5	What can we learn from N₂O isotope data? â€“ Analytics, processes and modelling. Rapid Communications in Mass Spectrometry, 2020, 34, e8858.	1.5	67
6	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
7	Fluxes of N2 and N2O and contributing processes in summer after grassland renewal and grassland conversion to maize cropping on a Plaggic Anthrosol and a Histic Gleysol. Soil Biology and Biochemistry, 2016, 101, 6-19.	8.8	56
8	Oxygen isotope fractionation during N₂O production by soil denitrification. Biogeosciences, 2016, 13, 1129-1144.	3.3	49
9	Use of oxygen isotopes to differentiate between nitrous oxide produced by fungi or bacteria during denitrification. Rapid Communications in Mass Spectrometry, 2017, 31, 1297-1312.	1.5	47
10	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
11	Quantifying N2O reduction to N2 during denitrification in soils via isotopic mapping approach: Model evaluation and uncertainty analysis. Environmental Research, 2019, 179, 108806.	7.5	46
12	An enhanced technique for automated determination of ¹⁵N signatures of N₂, (N₂+N₂O) and N₂O in gas samples. Rapid Communications in Mass Spectrometry, 2013, 27, 1548-1558.	1.5	44
13	Carbon isotope signature of dissolved inorganic carbon (DIC) in precipitation and atmospheric CO 2. Environmental Pollution, 2011, 159, 294-301.	7.5	43
14	Isotope fractionation factors controlling isotopocule signatures of soil-emitted N₂ O produced by denitrification processes of various rates. Rapid Communications in Mass Spectrometry, 2015, 29, 269-282.	1.5	43
15	Estimating N₂O processes during grassland renewal and grassland conversion to maize cropping using N₂O isotopocules. Rapid Communications in Mass Spectrometry, 2018, 32, 1053-1067.	1.5	42
16	One-year spatial and temporal monitoring of concentration and carbon isotopic composition of atmospheric CO2 in a WrocÅ‚aw (SW Poland) city area. Applied Geochemistry, 2013, 35, 7-13.	3.0	38
17	Carbon and nitrogen isotope analyses coupled with palynological data of PM10 in WrocÅ‚aw city (SW) Tj ETQq1 1 0.784314 rgBT /Ov 327-344.	1.0	32
18	Early season N₂O emissions under variable water management in rice systems: source-partitioning emissions using isotope ratios along a depth profile. Biogeosciences, 2019, 16, 383-408.	3.3	31

#	Article	IF	Citations
19	N₂O isotope approaches for source partitioning of N₂O production and estimation of N₂O reduction â€“ validation with the ¹⁵N gas-flux method in laboratory and field studies. Biogeosciences, 2020, 17, 5513-5537.	3.3	28
20	Effect of soil saturation on denitrification in a grassland soil. Biogeosciences, 2017, 14, 4691-4710.	3.3	26
21	N₂O source partitioning in soils using ¹⁵N site preference values corrected for the N₂O reduction effect. Rapid Communications in Mass Spectrometry, 2016, 30, 620-626.	1.5	22
22	Improvement of the ¹⁵N gas flux method for in situ measurement of soil denitrification and its product stoichiometry. Rapid Communications in Mass Spectrometry, 2019, 33, 437-448.	1.5	22
23	Measuring ¹⁵N Abundance and Concentration of Aqueous Nitrate, Nitrite, and Ammonium by Membrane Inlet Quadrupole Mass Spectrometry. Analytical Chemistry, 2017, 89, 6076-6081.	6.5	21
24	Underestimation of denitrification rates from field application of the ¹⁵N gas flux method and its correction by gas diffusion modelling. Biogeosciences, 2019, 16, 2233-2246.	3.3	17
25	Influence of Lumbricus terrestris and <scp>Folsomia candida</scp> on N₂O formation pathways in two different soils â€“ with particular focus on N₂ emissions. Rapid Communications in Mass Spectrometry, 2016, 30, 2301-2314.	1.5	12
26	Dynamics and origin of atmospheric CH4 in a Polish metropolitan area characterized by wetlands. Applied Geochemistry, 2014, 45, 72-81.	3.0	11
27	Comparing modified substrate-induced respiration with selective inhibition (SIRIN) and N₂O isotope approaches to estimate fungal contribution to denitrification in three arable soils under anoxic conditions. Biogeosciences, 2021, 18, 4629-4650.	3.3	10
28	The ¹⁵N gas-flux method to determine N₂ flux: a comparison of different tracer addition approaches. Soil, 2020, 6, 145-152.	4.9	9
29	Nitrite isotope characteristics and associated soil N transformations. Scientific Reports, 2021, 11, 5008.	3.3	9
30	Sulphur isotope mass balance of dissolved sulphate ion in a freshwater dam reservoir. Environmental Chemistry Letters, 2008, 6, 169-173.	16.2	8
31	Comparison of methods to determine triple oxygen isotope composition of N₂O. Rapid Communications in Mass Spectrometry, 2015, 29, 1991-1996.	1.5	8
32	Diurnal variations in the photosynthesis-respiration activity of a cyanobacterial bloom in a freshwater dam reservoir: an isotopic studyâ€. Isotopes in Environmental and Health Studies, 2008, 44, 163-175.	1.0	7
33	Sources and sinks of sulphate dissolved in lake water of a dam reservoir: S and O isotopic approach. Applied Geochemistry, 2009, 24, 1941-1950.	3.0	6
34	Tracing and quantifying lake water and groundwater fluxes in the area under mining dewatering pressure using coupled O and H stable isotope approach. Isotopes in Environmental and Health Studies, 2013, 49, 9-28.	1.0	6
35	Improved isotopic model based on ¹⁵N tracing and Rayleighâ€type isotope fractionation for simulating differential sources of N₂O emissions in a clay grassland soil. Rapid Communications in Mass Spectrometry, 2019, 33, 449-460.	1.5	3
36	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