Chamber Systems for Measuring Nitrous Oxide Emission

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Citation Report

#	Article	IF	CITATIONS
1	Nitrous oxide emission from soils at low moisture contents. Soil Biology and Biochemistry, 1979, 11, 167-173.	8.8	97
2	TEMPERATURE DEPENDENCE OF NITROUS OXIDE PRODUCTION FROM BROOKSTON CLAY. Canadian Journal of Soil Science, 1980, 60, 665-674.	1.2	22
3	NITROUS OXIDE EVOLUTION RATES FROM FERTILIZED SOIL: EFFECTS OF APPLIED NITROGEN. Canadian Journal of Soil Science, 1980, 60, 429-438.	1.2	32
4	Ammonia and nitrous oxide losses following applications of ammonium sulfate to flooded rice. Australian Journal of Agricultural Research, 1981, 32, 37.	1.5	119
5	Emission of nitrous oxide to the atmosphere from direct-drilled and ploughed clay soils. Journal of the Science of Food and Agriculture, 1981, 32, 219-223.	3.5	66
6	Volatilization of ammonia from urine patches in a subtropical pasture. Australian Journal of Agricultural Research, 1982, 33, 97.	1.5	85
7	Fate of nitrogen applied to agricultural crops with particular reference to denitrification. Philosophical Transactions of the Royal Society of London Series B, Biological Sciences, 1982, 296, 363-373.	2.3	30
8	Seasonal variation in H2S emission to the atmosphere from intertidal sediments in denmark. Atmospheric Environment, 1982, 16, 855-865.	1.0	25
9	Nitrous oxide emission from the soil surface: Continuous measurement by gas chromatography. Soil Biology and Biochemistry, 1983, 15, 481-483.	8.8	23
10	Factors influencing the loss of fertilizer nitrogen into the atmosphere as N ₂ O. Journal of Geophysical Research, 1983, 88, 6709-6718.	3.3	126
11	Denitrification Measurements in Intact Soil Cores. Acta Agriculturae Scandinavica, 1983, 33, 145-151.	0.3	30
12	Emission of nitric oxide from arable land. Tellus, Series B: Chemical and Physical Meteorology, 2022, 36, 25.	1.6	39
13	Emission of nitric oxide from arable land. Tellus, Series B: Chemical and Physical Meteorology, 1984, 36B, 25-37.	1.6	90
14	Denitrification in field soils. Plant and Soil, 1984, 76, 213-226.	3.7	61
15	Plant physiological methods for studying evapotranspiration: Problems of telling the forest from the trees. Agricultural Water Management, 1984, 8, 167-189.	5. 6	103
16	Nitrogen transformations and loss in flooded soils and sediments. C R C Critical Reviews in Environmental Control, 1984, 13, 273-309.	1.0	363
17	Measurement of fugitive volatile organic emission rates. Environmental Progress, 1985, 4, 199-202.	0.7	13
18	Methane flux from coastal salt marshes. Journal of Geophysical Research, 1985, 90, 5710-5720.	3.3	128

#	ARTICLE	IF	Citations
19	Influence of temperature, moisture, and organic carbon on the flux of H ₂ and CO between soil and atmosphere: Field studies in subtropical regions. Journal of Geophysical Research, 1985, 90, 5699-5709.	3.3	166
20	Differences in annual evaporation between grazed pasture and Eucalyptus species in plantations on a saline farm catchment. Journal of Hydrology, 1985, 78, 261-278.	5.4	123
21	Methane emissions along a salt marsh salinity gradient. Biogeochemistry, 1987, 4, 183-202.	3. 5	271
22	Sampling approaches for the measurement of volatile compounds at hazardous waste sites. Journal of Hazardous Materials, 1987, 14, 135-148.	12.4	9
23	Phytotron studies to compare nitrogen losses from corn-planted soil by the 15-N balance or direct dinitrogen and nitrous oxide measurements. Biology and Fertility of Soils, 1988, 6, 73.	4.3	9
24	Soil respiration. International Journal of Remote Sensing, 1990, 5, 311-321.	1.0	40
25	The Use of Acetylene for the Quantification of N2 and N2O Production from Biological Processes in Soil. , 1990 , , 167 - 180 .		28
26	Estimation of the net CO2 assimilation rate of a maize (Zea mays L.) canopy from leaf chamber measurements. Agricultural and Forest Meteorology, 1991, 55, 37-57.	4.8	14
27	Sources and sinks of greenhouse gases in the soil-plant environment. Plant Ecology, 1991, 91, 73-86.	1.2	41
28	Denitrification in a white clover sward killed by ploughing, rotary hoeing, shallow tillage, or with a herbicide. New Zealand Journal of Agricultural Research, 1992, 35, 441-450.	1.6	2
29	Soil denitrification rates in a subalpine watershed of the eastern Sierra Nevada. Forest Ecology and Management, 1992, 50, 217-231.	3.2	4
30	NO _x And N ₂ O Emissions From Soil. Global Biogeochemical Cycles, 1992, 6, 351-388.	4.9	439
31	Measuring water use efficiency of Eucalypt trees with chambers and micrometeorological techniques. Journal of Hydrology, 1993, 150, 649-664.	5.4	61
32	Nitrification and Denitrification., 1993,, 181-208.		31
33	Exchange of nitrous oxide within the Hudson Bay lowland. Journal of Geophysical Research, 1994, 99, 1573.	3.3	35
34	An Improved Dynamic Chamber Technique for Measuring CO 2 Efflux from the Surface of Soil. Functional Ecology, 1996, 10, 297.	3.6	67
35	Nitrous oxide and methane fluxes from perturbed and unperturbed boreal forest sites in northern Ontario. Journal of Geophysical Research, 1996, 101, 22767-22774.	3.3	38
36	Soils as sources and sinks for atmospheric methane. Canadian Journal of Soil Science, 1997, 77, 167-177.	1.2	181

#	Article	IF	CITATIONS
37	Field measurement of carbon dioxide evolution from soil by a flow-through chamber method using a portable photosynthesis meter. Soil Science and Plant Nutrition, 1997, 43, 255-260.	1.9	5
38	Fluxes of methane between landfills and the atmosphere: natural and engineered controls. Soil Use and Management, 1997, 13, 268-277.	4.9	123
39	Calibration and testing of a dynamic flow-through chamber for field determination of methyl bromide volatilization flux. Atmospheric Environment, 1997, 31, 4119-4123.	4.1	7
40	A re-examination of closed flux chamber methods for the measurement of trace gas emissions from soils to the atmosphere. European Journal of Soil Science, 1998, 49, 701-707.	3.9	103
41	Simulation of enclosure-based methods for measuring gas emissions from soil to the atmosphere. Journal of Geophysical Research, 1998, 103, 26127-26136.	3.3	38
42	Laboratory study of closed and dynamic flux chambers: Experimental results and implications for field application. Journal of Geophysical Research, 1998, 103, 26115-26125.	3.3	46
43	Automated Nearâ€Continuous Measurement of Carbon Dioxide and Nitrous Oxide Fluxes from Soil. Soil Science Society of America Journal, 1998, 62, 394-400.	2.2	64
44	Resource limitations to nitric oxide emissions from a sagebrush-steppe ecosystem. Biogeochemistry, 1999, 47, 63-86.	3.5	44
45	Carbonyl sulfide exchange on an ecosystem scale: soil represents a dominant sink for atmospheric COS. Atmospheric Environment, 1999, 33, 995-1008.	4.1	92
46	The influence of early sowing of wheat and lupin crops on evapotranspiration and evaporation from the soil surface in a Mediterranean climate. Agricultural Water Management, 1999, 42, 205-218.	5.6	33
47	Resource limitations to nitric oxide emissions from a sagebrush-steppe ecosystem. Biogeochemistry, 1999, 47, 63-86.	3.5	19
48	Nevada STORMS project: Measurement of mercury emissions from naturally enriched surfaces. Journal of Geophysical Research, 1999, 104, 21831-21844.	3.3	180
49	Methods for stable gas flux determination in aquatic and terrestrial systems. Developments in Atmospheric Science, 1999, 24, 29-66.	0.2	20
50	An explanation of linear increases in gas concentration under closed chambers used to measure gas exchange between soil and the atmosphere. European Journal of Soil Science, 2000, 51, 111-117.	3.9	92
51	Estimation of Regional Methane Emission from Rice Fields Using Simple Atmospheric Diffusion Models. Nutrient Cycling in Agroecosystems, 2000, 58, 303-310.	2.2	3
52	Source/sink distributions of heat, water vapour, carbon dioxide and methane in a rice canopy estimated using Lagrangian dispersion analysis. Agricultural and Forest Meteorology, 2000, 104, 233-249.	4.8	68
53	Assessing forest soil CO2 efflux: an in situ comparison of four techniques. Tree Physiology, 2000, 20, 23-32.	3.1	158
54	Determination of Atmospheric Volume for Direct Field Measurement of Denitrification in Soil Cores. Soil Science Society of America Journal, 2001, 65, 511-516.	2.2	5

#	Article	IF	Citations
55	REGULATION OF NITRIC OXIDE EMISSIONS FROM FOREST AND RANGELAND SOILS OF WESTERN NORTH AMERICA. Ecology, 2002, 83, 2278-2292.	3.2	37
56	Exchange flux of total gaseous mercury between air and natural water surfaces in summer season. Science in China Series D: Earth Sciences, 2002, 45, 211-220.	0.9	11
57	Direct Measurement of Denitrification Using 15 Nâ€labeled Fertilizer Applied to Turfgrass. Crop Science, 2002, 42, 1602-1610.	1.8	22
58	Dynamic flux chamber measurement of gaseous mercury emission fluxes over soils. Part 1: simulation of gaseous mercury emissions from soils using a two-resistance exchange interface model. Atmospheric Environment, 2002, 36, 835-846.	4.1	117
59	Predicting pesticide volatilization from soils. Environmetrics, 2002, 13, 569-578.	1.4	21
60	Estimation of 14CO2 flux at soil-atmosphere interface and distribution of 14C in forest ecosystem. Journal of Environmental Radioactivity, 2002, 60, 249-261.	1.7	17
61	Estimating a nitrous oxide emission factor for animal urine from some New Zealand pastoral soils. Soil Research, 2003, 41, 381.	1.1	210
62	Nitrous oxide emission from Australian agricultural lands and mitigation options: a review. Soil Research, 2003, 41, 165.	1.1	516
63	Leaf Litter Dynamics and Nitrous Oxide Emission in a Mediterranean Riparian Forest. Journal of Environmental Quality, 2003, 32, 191-197.	2.0	34
64	Mercury Emissions from Background and Altered Geologic Units Throughout Nevada. Water, Air, and Soil Pollution, 2004, 151, 179-193.	2.4	43
65	Ammonia Emission from Mineral Fertilizers and Fertilized Crops. Advances in Agronomy, 2004, 82, 557-622.	5.2	342
66	A comparison of regression methods for estimating soil–atmosphere diffusion gas fluxes by a closed-chamber technique. Soil Biology and Biochemistry, 2004, 36, 107-113.	8.8	71
67	Relationship of Soil Respiration to Crop and Landscape in the Walnut Creek Watershed. Journal of Hydrometeorology, 2005, 6, 812-824.	1.9	23
68	Gas Sampling Efficiencies and Aerodynamic Characteristics of a Laboratory Wind Tunnel for Odour Measurement. Biosystems Engineering, 2005, 92, 37-46.	4.3	17
69	On maintaining pressure equilibrium between a soil CO2 flux chamber and the ambient air. Journal of Geophysical Research, 2006, 111 , .	3.3	120
71	Measurements of N2O and NO emissions during tomato cultivation using a flow-through chamber system in a glasshouse. Nutrient Cycling in Agroecosystems, 2006, 75, 115-134.	2.2	18
72	Approaches to measuring fluxes of methane and nitrous oxide between landscapes and the atmosphere. Plant and Soil, 2008, 309, 5-24.	3.7	225
73	Tillage and wind effects on soil CO2 concentrations in muck soils. Soil and Tillage Research, 2008, 99, 221-231.	5.6	41

#	Article	IF	Citations
74	Chamber Measurements of Soil Nitrous Oxide Flux: Are Absolute Values Reliable?. Soil Science Society of America Journal, 2008, 72, 331-342.	2.2	226
75	Effects of soil gas permeability and recirculation flux on soil CO2 flux measurements performed using a closed dynamic accumulation chamber. Chemical Geology, 2009, 265, 387-393.	3.3	21
76	Gaseous Nitrogen Losses from Coastal Acid Sulfate Soils: A Short-Term Study. Pedosphere, 2011, 21, 197-206.	4.0	19
77	Soil Carbon Dioxide Flux in Response to Wheel Traffic in a No-Till System. Soil Science Society of America Journal, 2011, 75, 2296-2304.	2.2	9
78	Influence of photosynthetically active radiation on diurnal N ₂ O emissions under ruminant urine patches. New Zealand Journal of Agricultural Research, 2012, 55, 319-331.	1.6	11
79	Using automated non-steady-state chamber systems for making continuous long-term measurements of soil CO2 efflux in forest ecosystems. Agricultural and Forest Meteorology, 2012, 161, 57-65.	4.8	47
80	Automated, Lowâ€Power Chamber System for Measuring Nitrous Oxide Emissions. Journal of Environmental Quality, 2013, 42, 606-614.	2.0	28
81	Large-Chamber Methane and Nitrous Oxide Measurements Are Comparable to the Backward Lagrangian Stochastic Method. Journal of Environmental Quality, 2013, 42, 1643-1651.	2.0	4
82	The Impact of Corn Stover Removal on N2O Emission and Soil Respiration: an Investigation with Automated Chambers. Bioenergy Research, 2014, 7, 503-508.	3.9	16
83	Effects of banded ammonia and urea fertiliser on soil properties and the growth and yield of wheat. Crop and Pasture Science, 2014, 65, 337.	1.5	33
84	Measurement of Soil Respiration in situ: Chamber Techniques. Agronomy, 0, , 247-286.	0.2	35
85	Sampling frequency affects estimates of annual nitrous oxide fluxes. Scientific Reports, 2015, 5, 15912.	3.3	123
86	Methods for Measuring Atmospheric Gas Transport in Agricultural and Forest Systems. ASA Special Publication, 2015, , 19-43.	0.8	48
87	Field Measurement of Denitrification-An Overview. SSSA Special Publication Series, 2015, , 59-72.	0.2	5
88	Advances in Methodology for Research on Nitrogen Transformations in Soils. Agronomy, 0, , 467-502.	0.2	13
89	Advantages of the Acetylene Method of Measuring Denitrification. SSSA Special Publication Series, 2015, , 73-91.	0.2	5
90	Quantifying wind and pressure effects on trace gas fluxes across the soil–atmosphere interface. Biogeosciences, 2015, 12, 7423-7434.	3.3	23
91	Use of Chamber Systems to Measure Trace Gas Fluxes. ASA Special Publication, 0, , 63-78.	0.8	117

#	Article	IF	CITATIONS
92	Composition of Soil Atmospheres. Agronomy, 2015, , 873-901.	0.2	7
93	Automation of soil flux chamber measurements: potentials and pitfalls. Biogeosciences, 2016, 13, 1949-1966.	3.3	24
94	Comparing emissions from a cattle pen as measured by two micrometeorological techniques. Environmental Pollution, 2017, 230, 584-588.	7.5	7
95	Gas Flux. Soil Science Society of America Book Series, 0, , 1103-1119.	0.3	64
96	Analysis of the number of flux chamber samples and study area size on the accuracy of emission rate measurements. Journal of the Air and Waste Management Association, 2018, 68, 1103-1117.	1.9	4
97	Automatic high-frequency measurements of full soil greenhouse gas fluxes in a tropical forest. Biogeosciences, 2019, 16, 785-796.	3.3	27
98	Comparison of slant open-path flux gradient and static closed chamber techniques to measure soil N ₂ O emissions. Atmospheric Measurement Techniques, 2019, 12, 1095-1102.	3.1	9
99	Global Research Alliance N ₂ O chamber methodology guidelines: Considerations for automated flux measurement. Journal of Environmental Quality, 2020, 49, 1126-1140.	2.0	26
100	Global Research Alliance N ₂ O chamber methodology guidelines: Design considerations. Journal of Environmental Quality, 2020, 49, 1081-1091.	2.0	27
101	Biogenic Trace Gas Exchanges. , 2000, , 235-248.		4
102	Soil Denitrificationâ€"Significance, Measurement, and Effects of Management. Advances in Soil Science, 1992, , 1-57.	0.7	196
103	Assessing and Managing Agricultural Nitrogen Losses to the Environment. Advances in Soil Science, 1990, , 1-43.	0.7	54
104	Current Methods Used to Estimate N2O and N2 Emissions from Field Soils., 1985,, 79-99.		13
105	Measurements of CO2 and N2O Emissions in the Agricultural Field Experiments of the MESCOSAGR Project., 2012,, 229-259.		3
106	Measurement of Soil Respiration. Ecological Studies, 2003, , 37-54.	1.2	15
107	Processes Controlling the Nitrogen Cycle in the Atmosphere over Australia. , 1980, , 319-325.		1
108	Gaseous losses of nitrogen from grassland. , 1986, , 59-73.		40
109	Plant Physiological Methods for Studying Evapotranspiration: Problems of Telling the Forest from the Trees. Developments in Agricultural and Managed-forest Ecology, 1984, 13, 167-189.	0.2	2

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110	Denitrification. Microbiological Reviews, 1982, 46, 43-70.	10.1	716
111	Methods for Measuring Soil-Surface Gas Fluxes. , 2004, , 465-502.		4
115	Influence of N Fertilization Level, Rainfall and Temperature on the Emission of N2O in the Jeju Black Volcanic Ash Soil with Potato Cultivation. Han'guk T'oyang Piryo Hakhoe Chi Han'guk T'oyang Piryo Hakhoe, 2012, 45, 544-550.	0.9	3
116	A Novel Chamber Method for the Soil CO2 Flux Measurement Based on the Diffusion Equation. Suimon Mizu Shigen Gakkaishi, 2004, 17, 295-303.	0.1	1
117	Evaluation of N2O Emissions with Different Growing Periods (Spring and Autumn Seasons), Tillage and No Tillage Conditions in a Chinese Cabbage Field. Han'guk T'oyang Piryo Hakhoe Chi Han'guk T'oyang Piryo Hakhoe, 2011, 44, 1239-1244.	0.9	5
118	Influence of N Fertilization Level, Rainfall, and Temperature on the Emission of N2O in the Jeju Black Volcanic Ash Soil with Carrot Cultivation. Han'guk T'oyang Piryo Hakhoe Chi Han'guk T'oyang Piryo Hakhoe, 2012, 45, 459-465.	0.9	3
119	Influence of N Fertilization Level, Rainfall, and Temperature on the Emission of N2O in the Jeju Black Volcanic Ash Soil with Soybean Cultivation. Han'guk T'oyang Piryo Hakhoe Chi Han'guk T'oyang Piryo Hakhoe, 2012, 45, 451-458.	0.9	6
120	Processes Controlling the Nitrogen Cycle in the Atmosphere over Australia. , 1980, , 319-325.		3
121	Soil Denitrification., 1981,, 499-516.		0
122	Denitrification in field soils. , 1984, , 213-226.		0
123	The Measurement of Nitrous Oxide (N2O) Flux from a Grassland Soil. J Agricultural Meteorology, 1985, 41, 145-149.	1.5	0
124	Sources and sinks of greenhouse gases in the soil-plant environment. , 1991, , 73-86.		16
125	Developments in Flux Measurements of Greenhouse Gases. J Agricultural Meteorology, 1993, 48, 543-550.	1.5	3
127	Denitrification. , 1997, , 159-192.		0
128	Characteristics of Greenhouse Gas Emission in the Upland Soil Applied with Agricultural Biomass. Han'guk T'oyang Piryo Hakhoe Chi Han'guk T'oyang Piryo Hakhoe, 2014, 47, 381-389.	0.9	5
129	Effects of Biomass Application on Soil Carbon Storage and Mitigation of GHGs Emission in Upland. Han'guk T'oyang Piryo Hakhoe Chi Han'guk T'oyang Piryo Hakhoe, 2015, 48, 340-350.	0.9	1
130	Evaluation of N ₂ O Emissions by Nutrient Source in Soybean and Pepper Fields. Hangug Hwangyeong Saengmul Haghoeji, 2018, 36, 680-686.	0.4	1
134	Effects of Organic Maize Cropping Systems on Nitrogen Balances and Nitrous Oxide Emissions. Agriculture (Switzerland), 2022, 12, 907.	3.1	4

#	Article	IF	CITATIONS
135	Effects of different gasification biochar grain size on greenhouse gases and ammonia emissions in municipal aerated composting processes. Journal of Environmental Management, 2023, 331, 117257.	7.8	4
136	Deepened snow in combination with summer warming increases growing season nitrous oxide emissions in dry tundra, but not in wet tundra. Soil Biology and Biochemistry, 2023, 180, 109013.	8.8	1
137	The Effects of Fertilizer Sources and Site Location on Greenhouse Gas Emissions from Creeping Bentgrass Putting Greens and Kentucky Bluegrass Roughs., 2023, 2, 78-97.		0
138	Nitrous Oxide Emissions during Cultivation and Fallow Periods from Rice Paddy Soil under Urea Fertilization. Atmosphere, 2024, 15, 143.	2.3	0