Claudia Wagner-Riddle

List of Publications by Citations

157 papers	4,365 citations	36 h-index	58 g-index
158 ext. papers	5,049 ext. citations	4.6 avg, IF	5.75 L-index

#	Paper	IF	Citations
157	Intensive measurement of nitrous oxide emissions from a corn–soybean–wheat rotation under two contrasting management systems over 5 years. *Global Change Biology*, **2007**, 13, 1722-1736	11.4	206
156	Estimation of N2O emissions from agricultural soils in Canada. I. Development of a country-specific methodology. *Canadian Journal of Soil Science*, **2008**, 88, 641-654	1.4	181
155	Estimates of nitrous oxide emissions from agricultural fields over 28 months. *Canadian Journal of Soil Science*, **1997**, 77, 135-144	1.4	165
154	Nitrous oxide emissions from agricultural fields during winter and spring thaw as affected by management practices. *Nutrient Cycling in Agroecosystems*, **1998**, 52, 151-163	3.3	149
153	Methane and nitrous oxide emissions from Canadian animal agriculture: A review. *Canadian Journal of Animal Science*, **2006**, 86, 135-157	0.9	147
152	Globally important nitrous oxide emissions from croplands induced by freeze–thaw cycles. *Nature Geoscience*, **2017**, 10, 279-283	18.3	138
151	Linking Nitrous Oxide Flux During Spring Thaw to Nitrate Denitrification in the Soil Profile. *Soil Science Society of America Journal*, **2008**, 72, 908-916	2.5	100
150	Mechanisms leading to enhanced soil nitrous oxide fluxes induced by freeze–thaw cycles. *Canadian Journal of Soil Science*, **2013**, 93, 401-414	1.4	93
149	Evaluating annual nitrous oxide fluxes at the ecosystem scale. *Global Biogeochemical Cycles*, **2000**, 14, 1061-1070	5.9	84
148	Nitrous oxide emissions and biogeochemical responses to soil freezing-thawing and drying-wetting. *Soil Biology and Biochemistry*, **2018**, 117, 5-15	7.5	83
147	Toward Improved Coefficients for Predicting Direct N2O Emissions from Soil in Canadian Agroecosystems. *Nutrient Cycling in Agroecosystems*, **2005**, 72, 87-99	3.3	80
146	Season and management related changes in the diversity of nitrifying and denitrifying bacteria over winter and spring. *Applied Soil Ecology*, **2010**, 44, 138-146	5	73
145	Greenhouse gas emissions from stored liquid swine manure in a cold climate. *Atmospheric Environment*, **2006**, 40, 618-627	5.3	73
144	Nitrous Oxide and Carbon Dioxide Fluxes from a Bare Soil Using a Micrometeorological Approach. *Journal of Environmental Quality*, **1996**, 25, 898-907	3.4	70
143	Abundance and gene expression in nitrifier and denitrifier communities associated with a field scale spring thaw N2O flux event. *Soil Biology and Biochemistry*, **2014**, 73, 1-9	7.5	66
142	Carbonate removal by acid fumigation for measuring the δ13C of soil organic carbon. *Canadian Journal of Soil Science*, **2011**, 91, 247-250	1.4	66
141	Minimizing nitrogen losses from a corn–soybean–winter wheat rotation with best management practices. *Nutrient Cycling in Agroecosystems*, **2007**, 79, 141-159	3.3	66

140	Greenhouse gas balance and carbon footprint of beef cattle in three contrasting pasture-management systems in Brazil. *Journal of Cleaner Production*, **2017**, 142, 420-431	10.3	65
139	Anti-methanogenic effects of monensin in dairy and beef cattle: a meta-analysis. *Journal of Dairy Science*, **2013**, 96, 5161-73	4	61
138	Nitrous and Nitrogen Oxide Emissions from Turfgrass Receiving Different Forms of Nitrogen Fertilizer. *Journal of Environmental Quality*, **2000**, 29, 621-630	3.4	57
137	Towards standards for measuring greenhouse gas fluxes from agricultural fields using instrumented towers. *Canadian Journal of Soil Science*, **2006**, 86, 373-400	1.4	53
136	Micrometeorological measurements over 3´years reveal differences in N2 O emissions between annual and perennial crops. *Global Change Biology*, **2016**, 22, 1244-55	11.4	53
135	Long-term Trends in Corn Yields and Soil Carbon under Diversified Crop Rotations. *Journal of Environmental Quality*, **2018**, 47, 635-643	3.4	50
134	A diode laser based gas monitor suitable for measurement of trace gas exchange using micrometeorological techniques. *Agricultural and Forest Meteorology*, **2003**, 115, 71-89	5.8	50
133	Strategies to mitigate nitrous oxide emissions from land applied manure. *Animal Feed Science and Technology*, **2011**, 166-167, 464-479	3	49
132	Relationships between dairy slurry total solids, gas emissions, and surface crusts. *Journal of Environmental Quality*, **2012**, 41, 694-704	3.4	48
131	Contributions of carbonates to soil CO2 emissions. *Canadian Journal of Soil Science*, **2012**, 92, 599-607	1.4	47
130	Improving fertilizer management in the U.S. and Canada for N2O mitigation: Understanding potential positive and negative side-effects on corn yields. *Agriculture, Ecosystems and Environment*, **2016**, 221, 214-221	5.7	44
129	Emissions of N2O and CH4 during the composting of liquid swine manure. *Environmental Monitoring and Assessment*, **2004**, 91, 87-104	3.1	42
128	Methane emissions from digestate at an agricultural biogas plant. *Bioresource Technology*, **2016**, 216, 914-22	11	41
127	Molecular techniques and stable isotope ratios at natural abundance give complementary inferences about N2O production pathways in an agricultural soil following a rainfall event. *Soil Biology and Biochemistry*, **2015**, 88, 197-213	7.5	41
126	Evapotranspiration, water use efficiency, and energy partitioning of a mature switchgrass stand. *Agricultural and Forest Meteorology*, **2016**, 217, 108-119	5.8	40
125	Nitrous oxide emissions from an annual crop rotation on poorly drained soil on the Canadian Prairies. *Agricultural and Forest Meteorology*, **2012**, 166-167, 41-49	5.8	38
124	Carbon dioxide exchange in a northern Prairie cropping system over three years. *Agricultural and Forest Meteorology*, **2010**, 150, 908-918	5.8	38
123	Wavelet analysis of wintertime and spring thaw CO2 and N2O fluxes from agricultural fields. *Agricultural and Forest Meteorology*, **2008**, 148, 1305-1317	5.8	38

122	Differences in field-scale N2O flux linked to crop residue removal under two tillage systems in cold climates. *GCB Bioenergy*, **2017**, 9, 666-680	5.6	36
121	Measured versus modeled methane emissions from separated liquid dairy manure show large model underestimates. *Agriculture, Ecosystems and Environment*, **2016**, 230, 261-270	5.7	35
120	Energy and greenhouse gas intensity of corn (Zea mays L.) production in Ontario: A regional assessment. *Canadian Journal of Soil Science*, **2014**, 94, 77-95	1.4	35
119	Characterising effects of management practices, snow cover, and soil texture on soil temperature: Model development in DNDC. *Biosystems Engineering*, **2018**, 168, 54-72	4.8	33
118	Soil microbial communities as potential regulators of in situ N2O fluxes in annual and perennial cropping systems. *Soil Biology and Biochemistry*, **2016**, 103, 262-273	7.5	32
117	Scenario analysis of fertilizer management practices for NO mitigation from corn systems in Canada. *Science of the Total Environment*, **2016**, 573, 356-365	10.2	31
116	Comparison of Simultaneous Soil Profile N2O Concentration and Surface N2O Flux Measurements Overwinter and at Spring Thaw in an Agricultural Soil. *Soil Science Society of America Journal*, **2014**, 78, 180-193	2.5	30
115	Assessing Spring Thaw Nitrous Oxide Fluxes Simulated by the DNDC Model for Agricultural Soils. *Soil Science Society of America Journal*, **2011**, 75, 678-690	2.5	30
114	Micrometeorological measurements of N2O and CH4 emissions from a municipal solid waste landfill. *Waste Management and Research*, **2005**, 23, 409-19	4	30
113	Greenhouse gas and ammonia emissions from production of compost bedding on a dairy farm. *Waste Management*, **2017**, 70, 45-52	8.6	29
112	Three methods to estimate N2O fluxes as impacted by agricultural management. *Canadian Journal of Soil Science*, **1997**, 77, 125-134	1.4	29
111	Methane emissions from stored liquid dairy manure in a cold climate. *Animal Feed Science and Technology*, **2011**, 166-167, 581-589	3	27
110	A micrometeorological mass balance approach for greenhouse gas flux measurements from stored animal manure. *Agricultural and Forest Meteorology*, **2006**, 136, 175-187	5.8	26
109	Nitrous Oxide Flux from Solid Dairy Manure in Storage as Affected by Water Content and Redox Potential. *Journal of Environmental Quality*, **2000**, 29, 630-638	3.4	26
108	Rye mulch characterization for the purpose of microclimatic modelling. *Agricultural and Forest Meteorology*, **1996**, 78, 67-81	5.8	26
107	Rye cover crop management impact on soil water content, soil temperature and soybean growth. *Canadian Journal of Plant Science*, **1994**, 74, 485-495	1	26
106	How does climate variability influence nitrogen loss in temperate agroecosystems under contrasting management systems?. *Agriculture, Ecosystems and Environment*, **2016**, 227, 33-41	5.7	26
105	Methane emissions from storage of digestate at a dairy manure biogas facility. *Agricultural and Forest Meteorology*, **2018**, 258, 96-107	5.8	25

104	Methane and nitrous oxide emissions from Canadian dairy farms and mitigation options: An updated review. *Canadian Journal of Animal Science*, **2016**, 96, 306-331	0.9	25
103	Potential carbon sequestration in rubber tree plantations in the northwestern region of the Paran State, Brazil. *Acta Scientiarum - Agronomy*, **2014**, 36, 239	0.6	25
102	Quantifying the relationships between soil fraction mass, fraction carbon, and total soil carbon to assess mechanisms of physical protection. *Soil Biology and Biochemistry*, **2019**, 135, 95-107	7.5	24
101	Gas emissions from liquid dairy manure: complete versus partial storage emptying. *Nutrient Cycling in Agroecosystems*, **2014**, 99, 95-105	3.3	22
100	Nitrogen application rate, timing and history effects on nitrous oxide emissions from corn (Zea maysL.). *Canadian Journal of Soil Science*, **2014**, 94, 563-573	1.4	22
99	Using DayCENT to Simulate Carbon Dynamics in Conventional and No-Till Agriculture. *Soil Science Society of America Journal*, **2013**, 77, 941-950	2.5	22
98	Non-growing season nitrous oxide fluxes from an agricultural soil as affected by application of liquid and composted swine manure. *Canadian Journal of Soil Science*, **2012**, 92, 315-327	1.4	22
97	Nitrous oxide fluxes related to soil freeze and thaw periods identified using heat pulse probes. *Canadian Journal of Soil Science*, **2010**, 90, 409-418	1.4	22
96	Long-term diverse rotation alters nitrogen cycling bacterial groups and nitrous oxide emissions after nitrogen fertilization. *Soil Biology and Biochemistry*, **2020**, 149, 107917	7.5	22
95	Measurements of emission factors from a naturally ventilated commercial barn for dairy cows in a cold climate. *Biosystems Engineering*, **2014**, 127, 103-114	4.8	21
94	Isotopic CO2 measurements of soil respiration over conventional and no-till plots in fall and spring. *Agricultural and Forest Meteorology*, **2009**, 149, 614-622	5.8	21
93	Comparison of carbon budget, evapotranspiration, and albedo effect between the biofuel crops switchgrass and corn. *Agriculture, Ecosystems and Environment*, **2016**, 231, 271-282	5.7	21
92	Modifying fertilizer rate and application method reduces environmental nitrogen losses and increases corn yield in Ontario. *Science of the Total Environment*, **2020**, 722, 137851	10.2	20
91	Biases in discrete CH4 and N2O sampling protocols associated with temporal variation of gas fluxes from manure storage systems. *Agricultural and Forest Meteorology*, **2013**, 171-172, 295-305	5.8	20
90	Conventional and No-Tillage Effects on the Distribution of Crop Residues and Light Fraction Organic Matter. *Soil Science Society of America Journal*, **2015**, 79, 74-80	2.5	20
89	Transformations and losses of swine manure 15N as affected by application timing at two contrasting sites. *Canadian Journal of Soil Science*, **2010**, 90, 55-73	1.4	20
88	Using automated soil water content measurements to estimate soil water budgets. *Canadian Journal of Soil Science*, **2006**, 86, 47-56	1.4	20
87	Seasonal leaching and biodegradation of dicamba in turfgrass. *Journal of Environmental Quality*, **2001**, 30, 1360-70	3.4	20

86	Reduction in Methane Emissions From Acidified Dairy Slurry Is Related to Inhibition of Species. *Frontiers in Microbiology*, **2018**, 9, 2806	5.7	20
85	Quantifying body water kinetics and fecal and urinary water output from lactating Holstein dairy cows. *Journal of Dairy Science*, **2014**, 97, 6177-95	4	19
84	Modeling a Rye Cover Crop and Subsequent Soybean Yield. *Agronomy Journal*, **1997**, 89, 208-218	2.2	19
83	Year-Round Nitrous Oxide Emissions as Affected by Timing and Method of Dairy Manure Application to Corn. *Soil Science Society of America Journal*, **2017**, 81, 166-178	2.5	18
82	Greenhouse gas emissions intensity of Ontario milk production in 2011 compared with 1991. *Canadian Journal of Animal Science*, **2014**, 94, 155-173	0.9	18
81	Use of the isotope flux ratio approach to investigate the C¹⁸O¹⁶O and ¹³CO₂ exchange near the floor of a temperate deciduous forest. *Biogeosciences*, **2012**, 9, 2385-2399	4.6	18
80	Technical note: Laboratory evaluation of a tunable diode laser system for eddy covariance measurements of ammonia flux. *Agricultural and Forest Meteorology*, **2009**, 149, 385-391	5.8	18
79	Water Flow in Unsaturated Soil Below Turfgrass Observations and LEACHM (within EXPRES) Predictions. *Soil Science Society of America Journal*, **2000**, 64, 86-93	2.5	18
78	Micrometeorological measurements of trace gas fluxes from agricultural and natural ecosystems. *Infrared Physics and Technology*, **1996**, 37, 51-58	2.7	18
77	Soil Organic Matter as Catalyst of Crop Resource Capture. *Frontiers in Environmental Science*, **2020**, 8,	4.8	17
76	Year-round methane emissions from liquid dairy manure in a cold climate reveal hysteretic pattern. *Agricultural and Forest Meteorology*, **2018**, 258, 56-65	5.8	16
75	Potential methane emission reductions for two manure treatment technologies. *Environmental Technology (United Kingdom)*, **2018**, 39, 851-858	2.6	16
74	Comparing methane fluxes from stored liquid manure using micrometeorological mass balance and floating chamber methods. *Agricultural and Forest Meteorology*, **2010**, 150, 175-181	5.8	16
73	Evaluating a flux-gradient approach for flux and deposition velocity of nitrogen dioxide over short-grass surfaces. *Atmospheric Environment*, **2004**, 38, 2619-2626	5.3	16
72	Short-term response of soil N-cycling genes and transcripts to fertilization with nitrification and urease inhibitors, and relationship with field-scale N2O emissions. *Soil Biology and Biochemistry*, **2020**, 142, 107703	7.5	16
71	Diurnal Variation and Sampling Frequency Effects on Nitrous Oxide Emissions Following Nitrogen Fertilization and Spring-Thaw Events. *Soil Science Society of America Journal*, **2019**, 83, 743-750	2.5	15
70	Ammonia emissions from liquid manure storages are affected by anaerobic digestion and solid-liquid separation. *Agricultural and Forest Meteorology*, **2018**, 258, 80-88	5.8	15
69	Winter and Spring Thaw Measurements of N2O, NO and NOx Fluxes using a Micrometeorological Method. *Water, Air and Soil Pollution*, **2001**, 1, 89-98		15

68	Stable Isotopes Reveal Rapid Cycling of Soil Nitrogen after Manure Application. *Journal of Environmental Quality*, **2017**, 46, 261-271	3.4	14
67	Improving farm profitability also reduces the carbon footprint of milk production in intensive dairy production systems. *Journal of Cleaner Production*, **2019**, 229, 1018-1028	10.3	14
66	Residue management leading to higher field-scale N 2 O flux is associated with different soil bacterial nitrifier and denitrifier gene community structures. *Applied Soil Ecology*, **2016**, 108, 288-299	5	14
65	Nitrous oxide flux from a solid dairy manure pile measured using a micrometeorological mass balance method. *Nutrient Cycling in Agroecosystems*, **2002**, 62, 53-60	3.3	14
64	Ammonia emissions from the field application of liquid dairy manure after anaerobic digestion or mechanical separation in Ontario, Canada. *Agricultural and Forest Meteorology*, **2018**, 258, 89-95	5.8	13
63	Contribution of crop residue carbon to soil respiration at a northern Prairie site using stable isotope flux measurements. *Agricultural and Forest Meteorology*, **2011**, 151, 1045-1054	5.8	13
62	ESTIMATED SEASONAL AND ANNUAL WATER SURPLUS IN ONTARIO. *Canadian Water Resources Journal*, **1999**, 24, 277-292	1.7	13
61	Long-term crop rotation and different tillage practices alter soil organic matter composition and degradation. *Soil and Tillage Research*, **2021**, 209, 104960	6.5	13
60	Carbon dioxide exchange dynamics over a mature switchgrass stand. *GCB Bioenergy*, **2016**, 8, 428-442	5.6	13
59	Optimizing ration formulation as a strategy for greenhouse gas mitigation in intensive dairy production systems. *Agricultural Systems*, **2015**, 137, 1-11	6.1	12
58	Characterization of the heavy, hydrolysable and non-hydrolysable fractions of soil organic carbon in conventional and no-tillage soils. *Soil and Tillage Research*, **2018**, 181, 144-151	6.5	12
57	Greenhouse Gas Emissions from Stored Dairy Slurry from Multiple Farms. *Journal of Environmental Quality*, **2016**, 45, 1822-1828	3.4	12
56	Field Nitrogen Losses Induced by Application Timing of Digestate from Dairy Manure Biogas Production. *Journal of Environmental Quality*, **2016**, 45, 1829-1837	3.4	12
55	Predicting manure volatile solid output of lactating dairy cows. *Journal of Dairy Science*, **2018**, 101, 820-829	4	12
54	High temporal resolution nitrous oxide fluxes from corn (Zea mays L.) in response to the combined use of nitrification and urease inhibitors. *Agriculture, Ecosystems and Environment*, **2020**, 300, 106996	5.7	11
53	Applying a Lagrangian dispersion analysis to infer carbon dioxide and latent heat fluxes in a corn canopy. *Agricultural and Forest Meteorology*, **2011**, 151, 620-632	5.8	11
52	Agricultural management practices and environmental drivers of nitrous oxide emissions over a decade for an annual and an annual-perennial crop rotation. *Agricultural and Forest Meteorology*, **2019**, 276-277, 107636	5.8	10
51	The Extent of Manure Removal from Storages and Its Impact on Gaseous Emissions. *Journal of Environmental Quality*, **2016**, 45, 2023-2029	3.4	10

50	Mitigation of nitrous oxide emissions in the context of nitrogen loss reduction from agroecosystems: managing hot spots and hot moments. *Current Opinion in Environmental Sustainability*, **2020**, 47, 46-53	7.2	9
49	Development of mathematical models to predict volume and nutrient composition of fresh manure from lactating Holstein cows. *Animal Production Science*, **2014**, 54, 1927	1.4	9
48	Analysis of Scaling-Up Resistances from Leaf to Canopy Using Numerical Simulations. *Agronomy Journal*, **2007**, 99, 1483-1491	2.2	9
47	Laboratory-scale measurements of N2O and CH4 emissions from hybrid poplars (Populus deltoides x Populus nigra). *Waste Management and Research*, **2004**, 22, 454-65	4	9
46	Altered soil organic matter composition and degradation after a decade of nitrogen fertilization in a temperate agroecosystem. *Agriculture, Ecosystems and Environment*, **2021**, 310, 107305	5.7	9
45	Comparison of two gap-filling techniques for nitrous oxide fluxes from agricultural soil. *Canadian Journal of Soil Science*, **2019**, 99, 12-24	1.4	9
44	Dairy manure acidification reduces CH4 emissions over short and long-term. *Environmental Technology (United Kingdom)*, **2021**, 42, 2797-2804	2.6	8
43	Comparing the performance of the DNDC, Holos, and VSMB models for predicting the water partitioning of various crops and sites across Canada. *Canadian Journal of Soil Science*, **2018**, 98, 212-231	1.4	8
42	Targeting Bacteria and Methanogens To Understand the Role of Residual Slurry as an Inoculant in Stored Liquid Dairy Manure. *Applied and Environmental Microbiology*, **2018**, 84,	4.8	8
41	New Method to Simulate Soil Freezing and Thawing Cycles for Studying Nitrous Oxide Flux. *Soil Science Society of America Journal*, **2006**, 70, 2106-2113	2.5	8
40	Greenhouse Gas Mitigation through Dairy Manure Acidification. *Journal of Environmental Quality*, **2019**, 48, 1435-1443	3.4	7
39	Dairy Manure Total Solid Levels Impact CH Flux and Abundance of Methanogenic Archaeal Communities. *Journal of Environmental Quality*, **2017**, 46, 232-236	3.4	7
38	Crop rotations differ in soil carbon stabilization efficiency, but the response to quality of structural plant inputs is ambiguous. *Plant and Soil*, **2020**, 457, 207-224	4.2	7
37	Tracing crop residue N into subsequent crops: Insight from long-term crop rotations that vary in diversity. *Field Crops Research*, **2020**, 255, 107904	5.5	7
36	Towards an improved methodology for modelling climate change impacts on cropping systems in cool climates. *Science of the Total Environment*, **2020**, 728, 138845	10.2	6
35	Methane Emission Patterns from Stored Liquid Swine Manure. *Asian-Australasian Journal of Animal Sciences*, **2010**, 23, 1229-1235	2.4	6
34	Global Research Alliance N O chamber methodology guidelines: Guidelines for gap-filling missing measurements. *Journal of Environmental Quality*, **2020**, 49, 1186-1202	3.4	6
33	Economic and environmental consequences of nitrogen application rates, timing and methods on corn in Ontario. *Agricultural Systems*, **2021**, 188, 103018	6.1	6

32	Crop residues contribute minimally to spring-thaw nitrous oxide emissions under contrasting tillage and crop rotations. *Soil Biology and Biochemistry*, **2021**, 152, 108057	7.5	6
31	Assessment of random errors in multi-plot nitrous oxide flux gradient measurements. *Agricultural and Forest Meteorology*, **2017**, 242, 10-20	5.8	5
30	Assessment of Open-path Spectrometer Accuracy at Low Path-integrated Methane Concentrations. *Atmosphere*, **2020**, 11, 184	2.7	5
29	Temporal dynamics of oxygen isotope compositions of soil and canopy CO2 fluxes in a temperate deciduous forest. *Journal of Geophysical Research G: Biogeosciences*, **2014**, 119, 996-1013	3.7	5
28	Micrometeorological Methods for Assessing Greenhouse Gas Flux **2012**, 367-383		5
27	Contribution of crop residue, soil, and fertilizer nitrogen to nitrous oxide emissions varies with long-term crop rotation and tillage. *Science of the Total Environment*, **2021**, 767, 145107	10.2	5
26	In-Situ Estimation of Soil Water Retention Curve in Silt Loam and Loamy Sand Soils at Different Soil Depths. *Sensors*, **2021**, 21,	3.8	5
25	Greenhouse gas mitigation potential of annual and perennial dairy feed crop systems. *Agriculture, Ecosystems and Environment*, **2017**, 245, 52-62	5.7	4
24	Assessment of nitrification and urease inhibitors on nitrate leaching in corn (Zea mays L.). *Canadian Journal of Soil Science*, **2019**, 99, 80-91	1.4	4
23	The environmental and economic efficacy of on-farm beneficial management practices for mitigating soil-related greenhouse gas emissions in Ontario, Canada. *Renewable Agriculture and Food Systems*, **2021**, 36, 307-320	1.8	4
22	Evaluation of a lower-powered analyzer and sampling system for eddy-covariance measurements of nitrous oxide fluxes. *Atmospheric Measurement Techniques*, **2018**, 11, 1583-1597	4	4
21	A Review of Ongoing Advancements in Soil and Water Assessment Tool (SWAT) for Nitrous Oxide (N2o) Modeling. *Atmosphere*, **2020**, 11, 450	2.7	3
20	Acidification of Residual Manure in Liquid Dairy Manure Storages and Its Effect on Greenhouse Gas Emissions. *Frontiers in Sustainable Food Systems*,4,	4.8	3
19	Assessing variability of soil water balance components measured at a new lysimeter facility dedicated to the study of soil ecosystem services. *Journal of Hydrology*, **2021**, 603, 127037	6	3
18	Determining the influence of Itaipu Lake on thermal conditions for soybean development in adjacent lands. *International Journal of Biometeorology*, **2015**, 59, 1499-509	3.7	2
17	Short communication: Field study of air ammonia concentrations in Ontario dairy calf housing microenvironments. *Canadian Journal of Animal Science*, **2015**, 95, 539-542	0.9	2
16	An improved laboratory method shows that freezing intensity increases N2O emissions. *Canadian Journal of Soil Science*, **2020**, 1-14	1.4	2
15	Estimating a Lagrangian Length Scale Using Measurements of CO2 in a Plant Canopy. *Boundary-Layer Meteorology*, **2013**, 147, 83-102	3.4	2

14	Evidence for microbial rather than aggregate origin of substrates fueling freeze-thaw induced N2O emissions. *Soil Biology and Biochemistry*, **2021**, 160, 108352	7.5	2
13	A 1-year greenhouse gas budget of a peatland exposed to long-term nutrient infiltration and altered hydrology: high carbon uptake and methane emission. *Environmental Monitoring and Assessment*, **2019**, 191, 533	3.1	1
12	Does overwintering change the inoculum effect on methane emissions from stored liquid manure?. *Journal of Environmental Quality*, **2020**, 49, 247-255	3.4	1
11	Evaluating a Lagrangian inverse model for inferring isotope CO2 exchange in plant canopies. *Agricultural and Forest Meteorology*, **2019**, 276-277, 107651	5.8	1
10	Cover crop mixtures: A powerful strategy to reduce post-harvest surplus of soil nitrate and leaching. *Agriculture, Ecosystems and Environment*, **2022**, 325, 107750	5.7	1
9	Long-term variability in NO emissions and emission factors for corn and soybeans induced by weather and management at a cold climate site.. *Science of the Total Environment*, **2021**, 815, 152744	10.2	1
8	Sodium Persulfate and Potassium Permanganate Inhibit Methanogens and Methanogenesis in Stored Liquid Dairy Manure. *Journal of Environmental Quality*, **2018**, 47, 786-794	3.4	1
7	Spatial variation of nitrous oxide fluxes during growing and non-growing seasons at a location subjected to seasonally frozen soils. *Canadian Journal of Soil Science*, **2021**, 101, 555-564	1.4	1
6	Identifying hotspots and representative monitoring locations of field scale NO emissions from agricultural soils: A time stability analysis. *Science of the Total Environment*, **2021**, 788, 147955	10.2	1
5	Economic and environmental nitrate leaching consequences of 4R nitrogen management practices including use of inhibitors for corn production in Ontario. *Journal of Environmental Management*, **2021**, 300, 113739	7.9	1
4	Increased dairy farm methane concentrations linked to anaerobic digester in a five-year study. *Journal of Environmental Quality*, **2020**, 49, 509-515	3.4	0
3	Surface and subsurface N2O losses from dairy cropping systems. *Nutrient Cycling in Agroecosystems* , **2019**, 114, 277-293	3.3	
2	AFM special issue Greenhouse gas and ammonia emissions from livestock production. *Agricultural and Forest Meteorology*, **2018**, 258, 1-2	5.8	
1	Net Agricultural Greenhouse Gases169-182		