

# Claudia Wagner-Riddle

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Cover crop mixtures: A powerful strategy to reduce post-harvest surplus of soil nitrate and leaching. <i>Agriculture, Ecosystems and Environment</i> , <b>2022</b> , 325, 107750	5.7	1
156	Dairy manure acidification reduces CH <sub>4</sub> emissions over short and long-term. <i>Environmental Technology (United Kingdom)</i> , <b>2021</b> , 42, 2797-2804	2.6	8
155	Long-term variability in NO emissions and emission factors for corn and soybeans induced by weather and management at a cold climate site.. <i>Science of the Total Environment</i> , <b>2021</b> , 815, 152744	10.2	1
154	Assessing variability of soil water balance components measured at a new lysimeter facility dedicated to the study of soil ecosystem services. <i>Journal of Hydrology</i> , <b>2021</b> , 603, 127037	6	3
153	The environmental and economic efficacy of on-farm beneficial management practices for mitigating soil-related greenhouse gas emissions in Ontario, Canada. <i>Renewable Agriculture and Food Systems</i> , <b>2021</b> , 36, 307-320	1.8	4
152	Economic and environmental consequences of nitrogen application rates, timing and methods on corn in Ontario. <i>Agricultural Systems</i> , <b>2021</b> , 188, 103018	6.1	6
151	Altered soil organic matter composition and degradation after a decade of nitrogen fertilization in a temperate agroecosystem. <i>Agriculture, Ecosystems and Environment</i> , <b>2021</b> , 310, 107305	5.7	9
150	Contribution of crop residue, soil, and fertilizer nitrogen to nitrous oxide emissions varies with long-term crop rotation and tillage. <i>Science of the Total Environment</i> , <b>2021</b> , 767, 145107	10.2	5
149	Long-term crop rotation and different tillage practices alter soil organic matter composition and degradation. <i>Soil and Tillage Research</i> , <b>2021</b> , 209, 104960	6.5	13
148	Crop residues contribute minimally to spring-thaw nitrous oxide emissions under contrasting tillage and crop rotations. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 152, 108057	7.5	6
147	In-Situ Estimation of Soil Water Retention Curve in Silt Loam and Loamy Sand Soils at Different Soil Depths. <i>Sensors</i> , <b>2021</b> , 21,	3.8	5
146	Spatial variation of nitrous oxide fluxes during growing and non-growing seasons at a location subjected to seasonally frozen soils. <i>Canadian Journal of Soil Science</i> , <b>2021</b> , 101, 555-564	1.4	1
145	Identifying hotspots and representative monitoring locations of field scale NO emissions from agricultural soils: A time stability analysis. <i>Science of the Total Environment</i> , <b>2021</b> , 788, 147955	10.2	1
144	Evidence for microbial rather than aggregate origin of substrates fueling freeze-thaw induced N <sub>2</sub> O emissions. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 160, 108352	7.5	2
143	Economic and environmental nitrate leaching consequences of 4R nitrogen management practices including use of inhibitors for corn production in Ontario. <i>Journal of Environmental Management</i> , <b>2021</b> , 300, 113739	7.9	1
142	Mitigation of nitrous oxide emissions in the context of nitrogen loss reduction from agroecosystems: managing hot spots and hot moments. <i>Current Opinion in Environmental Sustainability</i> , <b>2020</b> , 47, 46-53	7.2	9
141	Does overwintering change the inoculum effect on methane emissions from stored liquid manure?. <i>Journal of Environmental Quality</i> , <b>2020</b> , 49, 247-255	3.4	1

140	Soil Organic Matter as Catalyst of Crop Resource Capture. <i>Frontiers in Environmental Science</i> , <b>2020</b> , 8,	4.8	17
139	High temporal resolution nitrous oxide fluxes from corn ( <i>Zea mays</i> L.) in response to the combined use of nitrification and urease inhibitors. <i>Agriculture, Ecosystems and Environment</i> , <b>2020</b> , 300, 106996	5.7	11
138	A Review of Ongoing Advancements in Soil and Water Assessment Tool (SWAT) for Nitrous Oxide (N <sub>2</sub> o) Modeling. <i>Atmosphere</i> , <b>2020</b> , 11, 450	2.7	3
137	Towards an improved methodology for modelling climate change impacts on cropping systems in cool climates. <i>Science of the Total Environment</i> , <b>2020</b> , 728, 138845	10.2	6
136	Increased dairy farm methane concentrations linked to anaerobic digester in a five-year study. <i>Journal of Environmental Quality</i> , <b>2020</b> , 49, 509-515	3.4	0
135	Modifying fertilizer rate and application method reduces environmental nitrogen losses and increases corn yield in Ontario. <i>Science of the Total Environment</i> , <b>2020</b> , 722, 137851	10.2	20
134	Assessment of Open-path Spectrometer Accuracy at Low Path-integrated Methane Concentrations. <i>Atmosphere</i> , <b>2020</b> , 11, 184	2.7	5
133	An improved laboratory method shows that freezing intensity increases N <sub>2</sub> O emissions. <i>Canadian Journal of Soil Science</i> , <b>2020</b> , 1-14	1.4	2
132	Short-term response of soil N-cycling genes and transcripts to fertilization with nitrification and urease inhibitors, and relationship with field-scale N <sub>2</sub> O emissions. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 142, 107703	7.5	16
131	Crop rotations differ in soil carbon stabilization efficiency, but the response to quality of structural plant inputs is ambiguous. <i>Plant and Soil</i> , <b>2020</b> , 457, 207-224	4.2	7
130	Long-term diverse rotation alters nitrogen cycling bacterial groups and nitrous oxide emissions after nitrogen fertilization. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 149, 107917	7.5	22
129	Tracing crop residue N into subsequent crops: Insight from long-term crop rotations that vary in diversity. <i>Field Crops Research</i> , <b>2020</b> , 255, 107904	5.5	7
128	Global Research Alliance N O chamber methodology guidelines: Guidelines for gap-filling missing measurements. <i>Journal of Environmental Quality</i> , <b>2020</b> , 49, 1186-1202	3.4	6
127	A 1-year greenhouse gas budget of a peatland exposed to long-term nutrient infiltration and altered hydrology: high carbon uptake and methane emission. <i>Environmental Monitoring and Assessment</i> , <b>2019</b> , 191, 533	3.1	1
126	Diurnal Variation and Sampling Frequency Effects on Nitrous Oxide Emissions Following Nitrogen Fertilization and Spring-Thaw Events. <i>Soil Science Society of America Journal</i> , <b>2019</b> , 83, 743-750	2.5	15
125	Assessment of nitrification and urease inhibitors on nitrate leaching in corn ( <i>Zea mays</i> L.). <i>Canadian Journal of Soil Science</i> , <b>2019</b> , 99, 80-91	1.4	4
124	Surface and subsurface N <sub>2</sub> O losses from dairy cropping systems. <i>Nutrient Cycling in Agroecosystems</i> , <b>2019</b> , 114, 277-293	3.3	
123	Quantifying the relationships between soil fraction mass, fraction carbon, and total soil carbon to assess mechanisms of physical protection. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 135, 95-107	7.5	24

122	Improving farm profitability also reduces the carbon footprint of milk production in intensive dairy production systems. <i>Journal of Cleaner Production</i> , <b>2019</b> , 229, 1018-1028	10.3	14
121	Evaluating a Lagrangian inverse model for inferring isotope CO <sub>2</sub> exchange in plant canopies. <i>Agricultural and Forest Meteorology</i> , <b>2019</b> , 276-277, 107651	5.8	1
120	Greenhouse Gas Mitigation through Dairy Manure Acidification. <i>Journal of Environmental Quality</i> , <b>2019</b> , 48, 1435-1443	3.4	7
119	Agricultural management practices and environmental drivers of nitrous oxide emissions over a decade for an annual and an annual-perennial crop rotation. <i>Agricultural and Forest Meteorology</i> , <b>2019</b> , 276-277, 107636	5.8	10
118	Comparison of two gap-filling techniques for nitrous oxide fluxes from agricultural soil. <i>Canadian Journal of Soil Science</i> , <b>2019</b> , 99, 12-24	1.4	9
117	Ammonia emissions from the field application of liquid dairy manure after anaerobic digestion or mechanical separation in Ontario, Canada. <i>Agricultural and Forest Meteorology</i> , <b>2018</b> , 258, 89-95	5.8	13
116	Comparing the performance of the DNDC, Holos, and VSMB models for predicting the water partitioning of various crops and sites across Canada. <i>Canadian Journal of Soil Science</i> , <b>2018</b> , 98, 212-231	1.4	8
115	Targeting Bacteria and Methanogens To Understand the Role of Residual Slurry as an Inoculant in Stored Liquid Dairy Manure. <i>Applied and Environmental Microbiology</i> , <b>2018</b> , 84,	4.8	8
114	Ammonia emissions from liquid manure storages are affected by anaerobic digestion and solid-liquid separation. <i>Agricultural and Forest Meteorology</i> , <b>2018</b> , 258, 80-88	5.8	15
113	Year-round methane emissions from liquid dairy manure in a cold climate reveal hysteretic pattern. <i>Agricultural and Forest Meteorology</i> , <b>2018</b> , 258, 56-65	5.8	16
112	Characterization of the heavy, hydrolysable and non-hydrolysable fractions of soil organic carbon in conventional and no-tillage soils. <i>Soil and Tillage Research</i> , <b>2018</b> , 181, 144-151	6.5	12
111	AFM special issue [Greenhouse gas and ammonia emissions from livestock production. <i>Agricultural and Forest Meteorology</i> , <b>2018</b> , 258, 1-2	5.8	
110	Methane emissions from storage of digestate at a dairy manure biogas facility. <i>Agricultural and Forest Meteorology</i> , <b>2018</b> , 258, 96-107	5.8	25
109	Characterising effects of management practices, snow cover, and soil texture on soil temperature: Model development in DNDC. <i>Biosystems Engineering</i> , <b>2018</b> , 168, 54-72	4.8	33
108	Potential methane emission reductions for two manure treatment technologies. <i>Environmental Technology (United Kingdom)</i> , <b>2018</b> , 39, 851-858	2.6	16
107	Long-term Trends in Corn Yields and Soil Carbon under Diversified Crop Rotations. <i>Journal of Environmental Quality</i> , <b>2018</b> , 47, 635-643	3.4	50
106	Predicting manure volatile solid output of lactating dairy cows. <i>Journal of Dairy Science</i> , <b>2018</b> , 101, 820-829	4.8	12
105	Nitrous oxide emissions and biogeochemical responses to soil freezing-thawing and drying-wetting. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 117, 5-15	7.5	83

104	Reduction in Methane Emissions From Acidified Dairy Slurry Is Related to Inhibition of Species. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 2806	5.7	20
103	Sodium Persulfate and Potassium Permanganate Inhibit Methanogens and Methanogenesis in Stored Liquid Dairy Manure. <i>Journal of Environmental Quality</i> , <b>2018</b> , 47, 786-794	3.4	1
102	Evaluation of a lower-powered analyzer and sampling system for eddy-covariance measurements of nitrous oxide fluxes. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 1583-1597	4	4
101	Differences in field-scale N <sub>2</sub> O flux linked to crop residue removal under two tillage systems in cold climates. <i>GCB Bioenergy</i> , <b>2017</b> , 9, 666-680	5.6	36
100	Greenhouse gas balance and carbon footprint of beef cattle in three contrasting pasture-management systems in Brazil. <i>Journal of Cleaner Production</i> , <b>2017</b> , 142, 420-431	10.3	65
99	Year-Round Nitrous Oxide Emissions as Affected by Timing and Method of Dairy Manure Application to Corn. <i>Soil Science Society of America Journal</i> , <b>2017</b> , 81, 166-178	2.5	18
98	Stable Isotopes Reveal Rapid Cycling of Soil Nitrogen after Manure Application. <i>Journal of Environmental Quality</i> , <b>2017</b> , 46, 261-271	3.4	14
97	Globally important nitrous oxide emissions from croplands induced by freeze-thaw cycles. <i>Nature Geoscience</i> , <b>2017</b> , 10, 279-283	18.3	138
96	Greenhouse gas mitigation potential of annual and perennial dairy feed crop systems. <i>Agriculture, Ecosystems and Environment</i> , <b>2017</b> , 245, 52-62	5.7	4
95	Assessment of random errors in multi-plot nitrous oxide flux gradient measurements. <i>Agricultural and Forest Meteorology</i> , <b>2017</b> , 242, 10-20	5.8	5
94	Greenhouse gas and ammonia emissions from production of compost bedding on a dairy farm. <i>Waste Management</i> , <b>2017</b> , 70, 45-52	8.6	29
93	Dairy Manure Total Solid Levels Impact CH <sub>4</sub> Flux and Abundance of Methanogenic Archaeal Communities. <i>Journal of Environmental Quality</i> , <b>2017</b> , 46, 232-236	3.4	7
92	Scenario analysis of fertilizer management practices for NO <sub>x</sub> mitigation from corn systems in Canada. <i>Science of the Total Environment</i> , <b>2016</b> , 573, 356-365	10.2	31
91	Methane and nitrous oxide emissions from Canadian dairy farms and mitigation options: An updated review. <i>Canadian Journal of Animal Science</i> , <b>2016</b> , 96, 306-331	0.9	25
90	Measured versus modeled methane emissions from separated liquid dairy manure show large model underestimates. <i>Agriculture, Ecosystems and Environment</i> , <b>2016</b> , 230, 261-270	5.7	35
89	Residue management leading to higher field-scale N <sub>2</sub> O flux is associated with different soil bacterial nitrifier and denitrifier gene community structures. <i>Applied Soil Ecology</i> , <b>2016</b> , 108, 288-299	5	14
88	Methane emissions from digestate at an agricultural biogas plant. <i>Bioresource Technology</i> , <b>2016</b> , 216, 914-22	11	41
87	Evapotranspiration, water use efficiency, and energy partitioning of a mature switchgrass stand. <i>Agricultural and Forest Meteorology</i> , <b>2016</b> , 217, 108-119	5.8	40

86	The Extent of Manure Removal from Storages and Its Impact on Gaseous Emissions. <i>Journal of Environmental Quality</i> , <b>2016</b> , 45, 2023-2029	3.4	10
85	Greenhouse Gas Emissions from Stored Dairy Slurry from Multiple Farms. <i>Journal of Environmental Quality</i> , <b>2016</b> , 45, 1822-1828	3.4	12
84	Micrometeorological measurements over 3 years reveal differences in N <sub>2</sub> O emissions between annual and perennial crops. <i>Global Change Biology</i> , <b>2016</b> , 22, 1244-55	11.4	53
83	Field Nitrogen Losses Induced by Application Timing of Digestate from Dairy Manure Biogas Production. <i>Journal of Environmental Quality</i> , <b>2016</b> , 45, 1829-1837	3.4	12
82	How does climate variability influence nitrogen loss in temperate agroecosystems under contrasting management systems?. <i>Agriculture, Ecosystems and Environment</i> , <b>2016</b> , 227, 33-41	5.7	26
81	Improving fertilizer management in the U.S. and Canada for N <sub>2</sub> O mitigation: Understanding potential positive and negative side-effects on corn yields. <i>Agriculture, Ecosystems and Environment</i> , <b>2016</b> , 221, 214-221	5.7	44
80	Carbon dioxide exchange dynamics over a mature switchgrass stand. <i>GCB Bioenergy</i> , <b>2016</b> , 8, 428-442	5.6	13
79	Soil microbial communities as potential regulators of in situ N <sub>2</sub> O fluxes in annual and perennial cropping systems. <i>Soil Biology and Biochemistry</i> , <b>2016</b> , 103, 262-273	7.5	32
78	Comparison of carbon budget, evapotranspiration, and albedo effect between the biofuel crops switchgrass and corn. <i>Agriculture, Ecosystems and Environment</i> , <b>2016</b> , 231, 271-282	5.7	21
77	Optimizing ration formulation as a strategy for greenhouse gas mitigation in intensive dairy production systems. <i>Agricultural Systems</i> , <b>2015</b> , 137, 1-11	6.1	12
76	Determining the influence of Itaipu Lake on thermal conditions for soybean development in adjacent lands. <i>International Journal of Biometeorology</i> , <b>2015</b> , 59, 1499-509	3.7	2
75	Short communication: Field study of air ammonia concentrations in Ontario dairy calf housing microenvironments. <i>Canadian Journal of Animal Science</i> , <b>2015</b> , 95, 539-542	0.9	2
74	Conventional and No-Tillage Effects on the Distribution of Crop Residues and Light Fraction Organic Matter. <i>Soil Science Society of America Journal</i> , <b>2015</b> , 79, 74-80	2.5	20
73	Molecular techniques and stable isotope ratios at natural abundance give complementary inferences about N <sub>2</sub> O production pathways in an agricultural soil following a rainfall event. <i>Soil Biology and Biochemistry</i> , <b>2015</b> , 88, 197-213	7.5	41
72	Abundance and gene expression in nitrifier and denitrifier communities associated with a field scale spring thaw N <sub>2</sub> O flux event. <i>Soil Biology and Biochemistry</i> , <b>2014</b> , 73, 1-9	7.5	66
71	Quantifying body water kinetics and fecal and urinary water output from lactating Holstein dairy cows. <i>Journal of Dairy Science</i> , <b>2014</b> , 97, 6177-95	4	19
70	Gas emissions from liquid dairy manure: complete versus partial storage emptying. <i>Nutrient Cycling in Agroecosystems</i> , <b>2014</b> , 99, 95-105	3.3	22
69	Comparison of Simultaneous Soil Profile N <sub>2</sub> O Concentration and Surface N <sub>2</sub> O Flux Measurements Overwinter and at Spring Thaw in an Agricultural Soil. <i>Soil Science Society of America Journal</i> , <b>2014</b> , 78, 180-193	2.5	30

68	Energy and greenhouse gas intensity of corn ( <i>Zea mays</i> L.) production in Ontario: A regional assessment. <i>Canadian Journal of Soil Science</i> , <b>2014</b> , 94, 77-95	1.4	35
67	Greenhouse gas emissions intensity of Ontario milk production in 2011 compared with 1991. <i>Canadian Journal of Animal Science</i> , <b>2014</b> , 94, 155-173	0.9	18
66	Nitrogen application rate, timing and history effects on nitrous oxide emissions from corn ( <i>Zea mays</i> L.). <i>Canadian Journal of Soil Science</i> , <b>2014</b> , 94, 563-573	1.4	22
65	Temporal dynamics of oxygen isotope compositions of soil and canopy CO <sub>2</sub> fluxes in a temperate deciduous forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2014</b> , 119, 996-1013	3.7	5
64	Development of mathematical models to predict volume and nutrient composition of fresh manure from lactating Holstein cows. <i>Animal Production Science</i> , <b>2014</b> , 54, 1927	1.4	9
63	Potential carbon sequestration in rubber tree plantations in the northwestern region of the Parana State, Brazil. <i>Acta Scientiarum - Agronomy</i> , <b>2014</b> , 36, 239	0.6	25
62	Measurements of emission factors from a naturally ventilated commercial barn for dairy cows in a cold climate. <i>Biosystems Engineering</i> , <b>2014</b> , 127, 103-114	4.8	21
61	Biases in discrete CH <sub>4</sub> and N <sub>2</sub> O sampling protocols associated with temporal variation of gas fluxes from manure storage systems. <i>Agricultural and Forest Meteorology</i> , <b>2013</b> , 171-172, 295-305	5.8	20
60	Anti-methanogenic effects of monensin in dairy and beef cattle: a meta-analysis. <i>Journal of Dairy Science</i> , <b>2013</b> , 96, 5161-73	4	61
59	Estimating a Lagrangian Length Scale Using Measurements of CO <sub>2</sub> in a Plant Canopy. <i>Boundary-Layer Meteorology</i> , <b>2013</b> , 147, 83-102	3.4	2
58	Mechanisms leading to enhanced soil nitrous oxide fluxes induced by freeze-thaw cycles. <i>Canadian Journal of Soil Science</i> , <b>2013</b> , 93, 401-414	1.4	93
57	Using DayCENT to Simulate Carbon Dynamics in Conventional and No-Till Agriculture. <i>Soil Science Society of America Journal</i> , <b>2013</b> , 77, 941-950	2.5	22
56	Nitrous oxide emissions from an annual crop rotation on poorly drained soil on the Canadian Prairies. <i>Agricultural and Forest Meteorology</i> , <b>2012</b> , 166-167, 41-49	5.8	38
55	Relationships between dairy slurry total solids, gas emissions, and surface crusts. <i>Journal of Environmental Quality</i> , <b>2012</b> , 41, 694-704	3.4	48
54	Use of the isotope flux ratio approach to investigate the C <sup>18</sup> /O <sup>16</sup> and <sup>13</sup> C/ <sup>12</sup> C exchange near the floor of a temperate deciduous forest. <i>Biogeosciences</i> , <b>2012</b> , 9, 2385-2399	4.6	18
53	Contributions of carbonates to soil CO <sub>2</sub> emissions. <i>Canadian Journal of Soil Science</i> , <b>2012</b> , 92, 599-607	1.4	47
52	Micrometeorological Methods for Assessing Greenhouse Gas Flux <b>2012</b> , 367-383		5
51	Non-growing season nitrous oxide fluxes from an agricultural soil as affected by application of liquid and composted swine manure. <i>Canadian Journal of Soil Science</i> , <b>2012</b> , 92, 315-327	1.4	22

50	Applying a Lagrangian dispersion analysis to infer carbon dioxide and latent heat fluxes in a corn canopy. <i>Agricultural and Forest Meteorology</i> , <b>2011</b> , 151, 620-632	5.8	11
49	Contribution of crop residue carbon to soil respiration at a northern Prairie site using stable isotope flux measurements. <i>Agricultural and Forest Meteorology</i> , <b>2011</b> , 151, 1045-1054	5.8	13
48	Strategies to mitigate nitrous oxide emissions from land applied manure. <i>Animal Feed Science and Technology</i> , <b>2011</b> , 166-167, 464-479	3	49
47	Methane emissions from stored liquid dairy manure in a cold climate. <i>Animal Feed Science and Technology</i> , <b>2011</b> , 166-167, 581-589	3	27
46	Carbonate removal by acid fumigation for measuring the $\delta^{13}C$ of soil organic carbon. <i>Canadian Journal of Soil Science</i> , <b>2011</b> , 91, 247-250	1.4	66
45	Assessing Spring Thaw Nitrous Oxide Fluxes Simulated by the DNDC Model for Agricultural Soils. <i>Soil Science Society of America Journal</i> , <b>2011</b> , 75, 678-690	2.5	30
44	Comparing methane fluxes from stored liquid manure using micrometeorological mass balance and floating chamber methods. <i>Agricultural and Forest Meteorology</i> , <b>2010</b> , 150, 175-181	5.8	16
43	Carbon dioxide exchange in a northern Prairie cropping system over three years. <i>Agricultural and Forest Meteorology</i> , <b>2010</b> , 150, 908-918	5.8	38
42	Season and management related changes in the diversity of nitrifying and denitrifying bacteria over winter and spring. <i>Applied Soil Ecology</i> , <b>2010</b> , 44, 138-146	5	73
41	Transformations and losses of swine manure 15N as affected by application timing at two contrasting sites. <i>Canadian Journal of Soil Science</i> , <b>2010</b> , 90, 55-73	1.4	20
40	Nitrous oxide fluxes related to soil freeze and thaw periods identified using heat pulse probes. <i>Canadian Journal of Soil Science</i> , <b>2010</b> , 90, 409-418	1.4	22
39	Methane Emission Patterns from Stored Liquid Swine Manure. <i>Asian-Australasian Journal of Animal Sciences</i> , <b>2010</b> , 23, 1229-1235	2.4	6
38	Technical note: Laboratory evaluation of a tunable diode laser system for eddy covariance measurements of ammonia flux. <i>Agricultural and Forest Meteorology</i> , <b>2009</b> , 149, 385-391	5.8	18
37	Isotopic CO <sub>2</sub> measurements of soil respiration over conventional and no-till plots in fall and spring. <i>Agricultural and Forest Meteorology</i> , <b>2009</b> , 149, 614-622	5.8	21
36	Wavelet analysis of wintertime and spring thaw CO <sub>2</sub> and N <sub>2</sub> O fluxes from agricultural fields. <i>Agricultural and Forest Meteorology</i> , <b>2008</b> , 148, 1305-1317	5.8	38
35	Estimation of N <sub>2</sub> O emissions from agricultural soils in Canada. I. Development of a country-specific methodology. <i>Canadian Journal of Soil Science</i> , <b>2008</b> , 88, 641-654	1.4	181
34	Linking Nitrous Oxide Flux During Spring Thaw to Nitrate Denitrification in the Soil Profile. <i>Soil Science Society of America Journal</i> , <b>2008</b> , 72, 908-916	2.5	100
33	Analysis of Scaling-Up Resistances from Leaf to Canopy Using Numerical Simulations. <i>Agronomy Journal</i> , <b>2007</b> , 99, 1483-1491	2.2	9



32	Intensive measurement of nitrous oxide emissions from a corn-soybean-wheat rotation under two contrasting management systems over 5 years. <i>Global Change Biology</i> , <b>2007</b> , 13, 1722-1736	11.4	206
31	Minimizing nitrogen losses from a corn-soybean-winter wheat rotation with best management practices. <i>Nutrient Cycling in Agroecosystems</i> , <b>2007</b> , 79, 141-159	3.3	66
30	Greenhouse gas emissions from stored liquid swine manure in a cold climate. <i>Atmospheric Environment</i> , <b>2006</b> , 40, 618-627	5.3	73
29	Towards standards for measuring greenhouse gas fluxes from agricultural fields using instrumented towers. <i>Canadian Journal of Soil Science</i> , <b>2006</b> , 86, 373-400	1.4	53
28	Methane and nitrous oxide emissions from Canadian animal agriculture: A review. <i>Canadian Journal of Animal Science</i> , <b>2006</b> , 86, 135-157	0.9	147
27	A micrometeorological mass balance approach for greenhouse gas flux measurements from stored animal manure. <i>Agricultural and Forest Meteorology</i> , <b>2006</b> , 136, 175-187	5.8	26
26	New Method to Simulate Soil Freezing and Thawing Cycles for Studying Nitrous Oxide Flux. <i>Soil Science Society of America Journal</i> , <b>2006</b> , 70, 2106-2113	2.5	8
25	Using automated soil water content measurements to estimate soil water budgets. <i>Canadian Journal of Soil Science</i> , <b>2006</b> , 86, 47-56	1.4	20
24	Toward Improved Coefficients for Predicting Direct N <sub>2</sub> O Emissions from Soil in Canadian Agroecosystems. <i>Nutrient Cycling in Agroecosystems</i> , <b>2005</b> , 72, 87-99	3.3	80
23	Micrometeorological measurements of N <sub>2</sub> O and CH <sub>4</sub> emissions from a municipal solid waste landfill. <i>Waste Management and Research</i> , <b>2005</b> , 23, 409-19	4	30
22	Laboratory-scale measurements of N <sub>2</sub> O and CH <sub>4</sub> emissions from hybrid poplars ( <i>Populus deltoides</i> x <i>Populus nigra</i> ). <i>Waste Management and Research</i> , <b>2004</b> , 22, 454-65	4	9
21	Evaluating a flux-gradient approach for flux and deposition velocity of nitrogen dioxide over short-grass surfaces. <i>Atmospheric Environment</i> , <b>2004</b> , 38, 2619-2626	5.3	16
20	Emissions of N <sub>2</sub> O and CH <sub>4</sub> during the composting of liquid swine manure. <i>Environmental Monitoring and Assessment</i> , <b>2004</b> , 91, 87-104	3.1	42
19	A diode laser based gas monitor suitable for measurement of trace gas exchange using micrometeorological techniques. <i>Agricultural and Forest Meteorology</i> , <b>2003</b> , 115, 71-89	5.8	50
18	Nitrous oxide flux from a solid dairy manure pile measured using a micrometeorological mass balance method. <i>Nutrient Cycling in Agroecosystems</i> , <b>2002</b> , 62, 53-60	3.3	14
17	Winter and Spring Thaw Measurements of N <sub>2</sub> O, NO and NO <sub>x</sub> Fluxes using a Micrometeorological Method. <i>Water, Air and Soil Pollution</i> , <b>2001</b> , 1, 89-98		15
16	Seasonal leaching and biodegradation of dicamba in turfgrass. <i>Journal of Environmental Quality</i> , <b>2001</b> , 30, 1360-70	3.4	20
15	Nitrous and Nitrogen Oxide Emissions from Turfgrass Receiving Different Forms of Nitrogen Fertilizer. <i>Journal of Environmental Quality</i> , <b>2000</b> , 29, 621-630	3.4	57

14	Nitrous Oxide Flux from Solid Dairy Manure in Storage as Affected by Water Content and Redox Potential. <i>Journal of Environmental Quality</i> , <b>2000</b> , 29, 630-638	3.4	26
13	Water Flow in Unsaturated Soil Below Turfgrass Observations and LEACHM (within EXPRES) Predictions. <i>Soil Science Society of America Journal</i> , <b>2000</b> , 64, 86-93	2.5	18
12	Evaluating annual nitrous oxide fluxes at the ecosystem scale. <i>Global Biogeochemical Cycles</i> , <b>2000</b> , 14, 1061-1070	5.9	84
11	ESTIMATED SEASONAL AND ANNUAL WATER SURPLUS IN ONTARIO. <i>Canadian Water Resources Journal</i> , <b>1999</b> , 24, 277-292	1.7	13
10	Nitrous oxide emissions from agricultural fields during winter and spring thaw as affected by management practices. <i>Nutrient Cycling in Agroecosystems</i> , <b>1998</b> , 52, 151-163	3.3	149
9	Estimates of nitrous oxide emissions from agricultural fields over 28 months. <i>Canadian Journal of Soil Science</i> , <b>1997</b> , 77, 135-144	1.4	165
8	Three methods to estimate N <sub>2</sub> O fluxes as impacted by agricultural management. <i>Canadian Journal of Soil Science</i> , <b>1997</b> , 77, 125-134	1.4	29
7	Modeling a Rye Cover Crop and Subsequent Soybean Yield. <i>Agronomy Journal</i> , <b>1997</b> , 89, 208-218	2.2	19
6	Rye mulch characterization for the purpose of microclimatic modelling. <i>Agricultural and Forest Meteorology</i> , <b>1996</b> , 78, 67-81	5.8	26
5	Nitrous Oxide and Carbon Dioxide Fluxes from a Bare Soil Using a Micrometeorological Approach. <i>Journal of Environmental Quality</i> , <b>1996</b> , 25, 898-907	3.4	70
4	Micrometeorological measurements of trace gas fluxes from agricultural and natural ecosystems. <i>Infrared Physics and Technology</i> , <b>1996</b> , 37, 51-58	2.7	18
3	Rye cover crop management impact on soil water content, soil temperature and soybean growth. <i>Canadian Journal of Plant Science</i> , <b>1994</b> , 74, 485-495	1	26
2	Acidification of Residual Manure in Liquid Dairy Manure Storages and Its Effect on Greenhouse Gas Emissions. <i>Frontiers in Sustainable Food Systems</i> , 4,	4.8	3
1	Net Agricultural Greenhouse Gases 169-182		