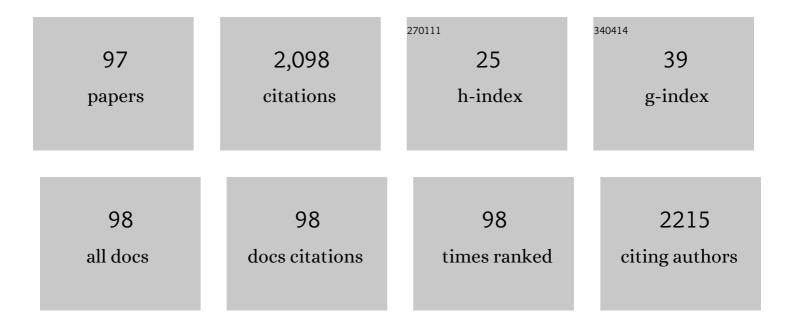
Andrew C Vanderzaag

List of Publications by Year in descending order

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Version: 2024-02-01



#	Article	IF	CITATIONS
1	Manure methane emissions over three years at a swine farm in western Canada. Journal of Environmental Quality, 2022, 51, 301-311.	1.0	4
2	Evaluating the 2019 IPCC refinement for estimating methane conversion factors in Canada. Science of the Total Environment, 2022, 835, 155325.	3.9	6
3	Nutrient recovery abates methane emissions from digestate storage. Bioresource Technology Reports, 2022, 18, 101086.	1.5	2
4	Dairy manure acidification reduces CH4 emissions over short and long-term. Environmental Technology (United Kingdom), 2021, 42, 2797-2804.	1.2	14
5	Regional climate influences manure temperature and methane emissions – A pan-Canadian modelling assessment. Science of the Total Environment, 2021, 750, 142278.	3.9	9
6	A mechanistic model of methane emission from animal slurry with a focus on microbial groups. PLoS ONE, 2021, 16, e0252881.	1.1	8
7	Understanding methane emission from stored animal manure: A review to guide model development. Journal of Environmental Quality, 2021, 50, 817-835.	1.0	30
8	Enhancing hydrolysis and bio-methane generation of extruded lignocellulosic wood waste using microbial pre-treatment. Renewable Energy, 2021, 170, 438-448.	4.3	12
9	Response Curves for Ammonia and Methane Emissions From Stored Liquid Manure Receiving Low Rates of Sulfuric Acid. Frontiers in Sustainable Food Systems, 2021, 5, .	1.8	2
10	Blue Water Footprints of Ontario Dairy Farms. Water (Switzerland), 2021, 13, 2230.	1.2	3
11	Measuring and modeling soil carbon sequestration under diverse cropping systems in the semiarid prairies of western Canada. Journal of Cleaner Production, 2021, 328, 129614.	4.6	12
12	Development of the DNDC model to improve soil hydrology and incorporate mechanistic tile drainage: A comparative analysis with RZWQM2. Environmental Modelling and Software, 2020, 123, 104577.	1.9	39
13	Assessing the effects of manure application rate and timing on nitrous oxide emissions from managed grasslands under contrasting climate in Canada. Science of the Total Environment, 2020, 716, 135374.	3.9	22
14	Simulating alfalfa regrowth and biomass in eastern Canada using the CSM-CROPGRO-perennial forage model. European Journal of Agronomy, 2020, 113, 125971.	1.9	17
15	Surface Covers Affect Liquid Manure Temperature, Albedo, and Evaporation. Transactions of the ASABE, 2020, 63, 199-210.	1.1	3
16	Does overwintering change the inoculum effect on methane emissions from stored liquid manure?. Journal of Environmental Quality, 2020, 49, 247-255.	1.0	3
17	Effects of Two Manure Additives on Methane Emissions from Dairy Manure. Animals, 2020, 10, 807.	1.0	8
18	Towards an improved methodology for modelling climate change impacts on cropping systems in cool climates. Science of the Total Environment, 2020, 728, 138845.	3.9	19

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19	Increased dairy farm methane concentrations linked to anaerobic digester in a fiveâ€year study. Journal of Environmental Quality, 2020, 49, 509-515.	1.0	2
20	Assessment of Open-path Spectrometer Accuracy at Low Path-integrated Methane Concentrations. Atmosphere, 2020, 11, 184.	1.0	8
21	An improved laboratory method shows that freezing intensity increases N2O emissions. Canadian Journal of Soil Science, 2020, , 1-14.	0.5	3
22	Ammonia and greenhouse gas emissions from slurry storage - A review. Agriculture, Ecosystems and Environment, 2020, 300, 106963.	2.5	112
23	Acidification of Residual Manure in Liquid Dairy Manure Storages and Its Effect on Greenhouse Gas Emissions. Frontiers in Sustainable Food Systems, 2020, 4, .	1.8	6
24	Assessing the Impacts of Climate Variability on Fertilizer Management Decisions for Reducing Nitrogen Losses from Corn Silage Production. Journal of Environmental Quality, 2019, 48, 1006-1015.	1.0	20
25	Intermittent agitation of liquid manure: effects on methane, microbial activity, and temperature in a farm-scale study. Journal of the Air and Waste Management Association, 2019, 69, 1096-1106.	0.9	6
26	Understanding the Fertilizer Management Impacts on Water and Nitrogen Dynamics for a Corn Silage Tileâ€Ðrained System in Canada. Journal of Environmental Quality, 2019, 48, 1016-1028.	1.0	16
27	Greenhouse Gas Mitigation through Dairy Manure Acidification. Journal of Environmental Quality, 2019, 48, 1435-1443.	1.0	17
28	Greenhouse gas emissions from gradually-filled liquid dairy manure storages with different levels of inoculant. Nutrient Cycling in Agroecosystems, 2019, 115, 455-467.	1.1	4
29	Assessing alfalfa production under historical and future climate in eastern Canada: DNDC model development and application. Environmental Modelling and Software, 2019, 122, 104540.	1.9	26
30	Surface and subsurface N2O losses from dairy cropping systems. Nutrient Cycling in Agroecosystems, 2019, 114, 277-293.	1.1	0
31	Assessing greenhouse gas emissions from outdoor cattle sleeping areas in Cameroon. Scientific African, 2019, 4, e00088.	0.7	1
32	Assessment of Gaseous Emissions from Cattle Abattoir Wastes in Cameroon. AgriEngineering, 2019, 1, 145-152.	1.7	2
33	Ammonia Emissions Measured Using Two Different GasFinder Open-Path Lasers. Atmosphere, 2019, 10, 261.	1.0	4
34	Improving farm profitability also reduces the carbon footprint of milk production in intensive dairy production systems. Journal of Cleaner Production, 2019, 229, 1018-1028.	4.6	28
35	Comparison of two gap-filling techniques for nitrous oxide fluxes from agricultural soil. Canadian Journal of Soil Science, 2019, 99, 12-24.	0.5	12
36	Comparing hydrological frameworks for simulating crop biomass, water and nitrogen dynamics in a tile drained soybean-corn system: Cascade vs computational approach. Journal of Hydrology X, 2019, 2, 100015.	0.8	18

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37	Quantifying greenhouse gas emissions from municipal solid waste dumpsites in Cameroon. Waste Management, 2019, 87, 947-953.	3.7	34
38	On the systematic underestimation of methane conversion factors in IPCC guidance. Waste Management, 2018, 75, 499-502.	3.7	3
39	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.	1.9	16
40	Liquid manure storage temperature is affected by storage design and management practices—A modelling assessment. Agriculture, Ecosystems and Environment, 2018, 260, 47-57.	2.5	21
41	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.	0.5	11
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, .	1.4	21
43	Ammonia emissions from liquid manure storages are affected by anaerobic digestion and solid-liquid separation. Agricultural and Forest Meteorology, 2018, 258, 80-88.	1.9	25
44	Year-round methane emissions from liquid dairy manure in a cold climate reveal hysteretic pattern. Agricultural and Forest Meteorology, 2018, 258, 56-65.	1.9	21
45	Emission factors of greenhouse gases from layer and broiler barns in Cameroon. Atmospheric Environment, 2018, 176, 54-59.	1.9	3
46	Methane emissions from storage of digestate at a dairy manure biogas facility. Agricultural and Forest Meteorology, 2018, 258, 96-107.	1.9	47
47	Characterising effects of management practices, snow cover, and soil texture on soil temperature: Model development in DNDC. Biosystems Engineering, 2018, 168, 54-72.	1.9	47
48	Potential methane emission reductions for two manure treatment technologies. Environmental Technology (United Kingdom), 2018, 39, 851-858.	1.2	22
49	The challenge of reconciling bottom-up agricultural methane emissions inventories with top-down measurements. Agricultural and Forest Meteorology, 2018, 248, 48-59.	1.9	25
50	Reduction in Methane Emissions From Acidified Dairy Slurry Is Related to Inhibition of Methanosarcina Species. Frontiers in Microbiology, 2018, 9, 2806.	1.5	32
51	Sodium Persulfate and Potassium Permanganate Inhibit Methanogens and Methanogenesis in Stored Liquid Dairy Manure. Journal of Environmental Quality, 2018, 47, 786-794.	1.0	6
52	Longâ€ŧerm Trends in Corn Yields and Soil Carbon under Diversified Crop Rotations. Journal of Environmental Quality, 2018, 47, 635-643.	1.0	81
53	Synergistic effects of complementary production systems help reduce livestock environmental burdens. Journal of Cleaner Production, 2018, 200, 858-865.	4.6	5
54	Inactivation of Avian Influenza Viruses on Porous and Non-porous Surfaces is Enhanced by Elevating Absolute Humidity. Transboundary and Emerging Diseases, 2017, 64, 1254-1261.	1.3	17

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55	A comparative life cycle assessment highlighting the trade-offs of a liquid manure separator-composter in a Canadian dairy farm system. Journal of Cleaner Production, 2017, 143, 824-835.	4.6	15
56	The consideration of time step in calculating grey water footprints of agricultural cropping systems. Ecological Indicators, 2017, 78, 31-36.	2.6	11
57	Do volatile solids from bedding materials increase greenhouse gas emissions for stored dairy manure?. Canadian Journal of Soil Science, 2017, , .	0.5	3
58	Greenhouse gas and ammonia emissions from production of compost bedding on a dairy farm. Waste Management, 2017, 70, 45-52.	3.7	39
59	A 3-D model to predict the temperature of liquid manure within storage tanks. Biosystems Engineering, 2017, 163, 50-65.	1.9	18
60	Impact of manure storage conditions and time on decomposition and losses from liquid dairy manure stored in a temperate climate. Canadian Journal of Soil Science, 2017, , .	0.5	5
61	Dairy Manure Total Solid Levels Impact CH ₄ Flux and Abundance of Methanogenic Archaeal Communities. Journal of Environmental Quality, 2017, 46, 232-236.	1.0	13
62	Characterizing the Performance of Gas-Permeable Membranes as an Ammonia Recovery Strategy from Anaerobically Digested Dairy Manure. Membranes, 2017, 7, 59.	1.4	26
63	Performance of an Agricultural Wetland-Reservoir-Irrigation Management System. Water (Switzerland), 2017, 9, 472.	1.2	6
64	Water Use and Conservation on a Free-Stall Dairy Farm. Water (Switzerland), 2017, 9, 977.	1.2	11
65	Treatment of Potato FarmWastewater with Coagulation. Applied Engineering in Agriculture, 2017, 33, 95-101.	0.3	3
66	Integrated water resources management: a case study of on-farm water use for potato processing. Water Practice and Technology, 2016, 11, 66-74.	1.0	2
67	The Extent of Manure Removal from Storages and Its Impact on Gaseous Emissions. Journal of Environmental Quality, 2016, 45, 2023-2029.	1.0	14
68	Greenhouse Gas Emissions from Stored Dairy Slurry from Multiple Farms. Journal of Environmental Quality, 2016, 45, 1822-1828.	1.0	13
69	Performance of a Constructed Wetland and Pretreatment System Receiving Potato Farm Wash Water. Water (Switzerland), 2016, 8, 183.	1.2	18
70	Constructed Wetlands for Agricultural Wastewater Treatment in Northeastern North America: A Review. Water (Switzerland), 2016, 8, 173.	1.2	31
71	Micrometeorological measurements over 3Âyears reveal differences in N ₂ O emissions between annual and perennial crops. Global Change Biology, 2016, 22, 1244-1255.	4.2	65
72	Does Fall Removal of the Dairy Manure Sludge in a Storage Tank Reduce Subsequent Methane Emissions?. Journal of Environmental Quality, 2016, 45, 2038-2043.	1.0	17

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73	Field Nitrogen Losses Induced by Application Timing of Digestate from Dairy Manure Biogas Production. Journal of Environmental Quality, 2016, 45, 1829-1837.	1.0	14
74	Impact of the oasis effect on wind tunnel measurements ofÂammonia volatilization from urea. Canadian Journal of Soil Science, 2016, 96, 485-495.	0.5	5
75	Measured versus modeled methane emissions from separated liquid dairy manure show large model underestimates. Agriculture, Ecosystems and Environment, 2016, 230, 261-270.	2.5	46
76	Usage and attitudes of water conservation on Ontario dairy farms. The Professional Animal Scientist, 2016, 32, 236-242.	0.7	13
77	Methane emissions from digestate at an agricultural biogas plant. Bioresource Technology, 2016, 216, 914-922.	4.8	58
78	Treatment of potato farm wastewater with sand filtration. Environmental Technology (United) Tj ETQq0 0 0 rg	BT /Qverloc	k 10 Tf 50 54
79	Allocation factors and issues in agricultural carbon footprint: a case study of the Canadian pork industry. Journal of Cleaner Production, 2016, 113, 587-595.	4.6	18
80	An ecoregion-specific ammonia emissions inventory of Ontario dairy farming: Mitigation potential of diet and manure management practices. Atmospheric Environment, 2016, 126, 1-14.	1.9	12
81	Measurements of emission factors from a naturally ventilated commercial barn for dairy cows in a cold climate. Biosystems Engineering, 2014, 127, 103-114.	1.9	30
82	Measuring methane emissions from two dairy farms: Seasonal and manure-management effects. Agricultural and Forest Meteorology, 2014, 194, 259-267.	1.9	59
83	Gas emissions from liquid dairy manure: complete versus partial storage emptying. Nutrient Cycling in Agroecosystems, 2014, 99, 95-105.	1.1	26
84	Silage effluent management: A review. Journal of Environmental Management, 2014, 143, 113-122.	3.8	54
85	Carbon footprint of Canadian dairy products: Calculations and issues. Journal of Dairy Science, 2013, 96, 6091-6104.	1.4	86
86	Towards an inventory of methane emissions from manure management that is responsive to changes on Canadian farms. Environmental Research Letters, 2013, 8, 035008.	2.2	34
87	Evaluation of a Surface Flow Constructed Wetland Treating Abattoir Wastewater. Applied Engineering in Agriculture, 2012, 28, 757-766.	0.3	14
88	Impact of modified tillage on runoff and nutrient loads from potato fields in Prince Edward Island. Agricultural Water Management, 2011, 98, 1782-1788.	2.4	18
89	Strategies to mitigate nitrous oxide emissions from land applied manure. Animal Feed Science and Technology, 2011, 166-167, 464-479.	1.1	59
90	Methane emissions from stored liquid dairy manure in a cold climate. Animal Feed Science and Technology, 2011, 166-167, 581-589.	1.1	33

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91	Survival of <i>Escherichia coli</i> in agricultural soil and presence in tile drainage and shallow groundwater. Canadian Journal of Soil Science, 2010, 90, 495-505.	0.5	24
92	Effects of winter storage conditions and subsequent agitation on gaseous emissions from liquid dairy manure. Canadian Journal of Soil Science, 2010, 90, 229-239.	0.5	25
93	Permeable Synthetic Covers for Controlling Emissions from Liquid Dairy Manure. Applied Engineering in Agriculture, 2010, 26, 287-297.	0.3	40
94	Greenhouse Gas Emissions from Surface Flow and Subsurface Flow Constructed Wetlands Treating Dairy Wastewater. Journal of Environmental Quality, 2010, 39, 460-471.	1.0	45
95	Gas Emissions from Straw Covered Liquid Dairy Manure During Summer Storage and Autumn Agitation. Transactions of the ASABE, 2009, 52, 599-608.	1.1	46
96	Floating Covers to Reduce Gas Emissions from Liquid Manure Storages: A Review. Applied Engineering in Agriculture, 2008, 24, 657-671.	0.3	64
97	Ammonia Emissions from Surface Flow and Subsurface Flow Constructed Wetlands Treating Dairy Wastewater. Journal of Environmental Quality, 2008, 37, 2028-2036.	1.0	22