

Rodney T Venterea

List of Publications by Citations

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95
papers

6,111
citations

39
h-index

77
g-index

101
ext. papers

6,962
ext. citations

5.3
avg, IF

6.04
L-index

#	Paper	IF	Citations
95	Tillage and soil carbon sequestration—What do we really know?. <i>Agriculture, Ecosystems and Environment</i> , 2007 , 118, 1-5	5.7	828
94	Productivity limits and potentials of the principles of conservation agriculture. <i>Nature</i> , 2015 , 517, 365-8	50.4	716
93	When does no-till yield more? A global meta-analysis. <i>Field Crops Research</i> , 2015 , 183, 156-168	5.5	371
92	Climate, duration, and N placement determine N ₂ O emissions in reduced tillage systems: a meta-analysis. <i>Global Change Biology</i> , 2013 , 19, 33-44	11.4	264
91	Nitrogen oxide and methane emissions under varying tillage and fertilizer management. <i>Journal of Environmental Quality</i> , 2005 , 34, 1467-77	3.4	211
90	Fertilizer source and tillage effects on yield-scaled nitrous oxide emissions in a corn cropping system. <i>Journal of Environmental Quality</i> , 2011 , 40, 1521-31	3.4	204
89	Biochar—role as an alternative N-fertilizer: ammonia capture. <i>Plant and Soil</i> , 2012 , 350, 35-42	4.2	197
88	Challenges and opportunities for mitigating nitrous oxide emissions from fertilized cropping systems. <i>Frontiers in Ecology and the Environment</i> , 2012 , 10, 562-570	5.5	177
87	Calculating the detection limits of chamber-based soil greenhouse gas flux measurements. <i>Journal of Environmental Quality</i> , 2012 , 41, 705-15	3.4	143
86	Effects of elevated carbon dioxide and increased temperature on methane and nitrous oxide fluxes: evidence from field experiments. <i>Frontiers in Ecology and the Environment</i> , 2012 , 10, 520-527	5.5	136
85	Nitrite-driven nitrous oxide production under aerobic soil conditions: kinetics and biochemical controls. <i>Global Change Biology</i> , 2007 , 13, 1798-1809	11.4	126
84	Mechanisms and kinetics of nitric and nitrous oxide production during nitrification in agricultural soil. <i>Global Change Biology</i> , 2000 , 6, 303-316	11.4	121
83	Nitrogen oxide gas emissions from temperate forest soils receiving long-term nitrogen inputs. <i>Global Change Biology</i> , 2003 , 9, 346-357	11.4	109
82	Indirect nitrous oxide emissions from streams within the US Corn Belt scale with stream order. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 9839-43	11.5	98
81	Nitrite intensity explains N management effects on N ₂ O emissions in maize. <i>Soil Biology and Biochemistry</i> , 2013 , 66, 229-238	7.5	98
80	Nitrous oxide emissions are enhanced in a warmer and wetter world. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 12081-12085	11.5	97
79	Ammonium sorption and ammonia inhibition of nitrite-oxidizing bacteria explain contrasting soil N ₂ O production. <i>Scientific Reports</i> , 2015 , 5, 12153	4.9	89

78	Biotic and abiotic immobilization of ammonium, nitrite, and nitrate in soils developed under different tree species in the Catskill Mountains, New York, USA. <i>Global Change Biology</i> , 2003 , 9, 1591-1601	11.4	88
77	Simplified method for quantifying theoretical underestimation of chamber-based trace gas fluxes. <i>Journal of Environmental Quality</i> , 2010 , 39, 126-35	3.4	86
76	Polymer-Coated Urea Maintains Potato Yields and Reduces Nitrous Oxide Emissions in a Minnesota Loamy Sand. <i>Soil Science Society of America Journal</i> , 2010 , 74, 419-428	2.5	85
75	Accuracy and Precision Analysis of Chamber-Based Nitrous Oxide Gas Flux Estimates. <i>Soil Science Society of America Journal</i> , 2009 , 73, 1087-1093	2.5	84
74	Urea Decreases Nitrous Oxide Emissions Compared with Anhydrous Ammonia in a Minnesota Corn Cropping System. <i>Soil Science Society of America Journal</i> , 2010 , 74, 407-418	2.5	83
73	Impact of reduced tillage and cover cropping on the greenhouse gas budget of a maize/soybean rotation ecosystem. <i>Agriculture, Ecosystems and Environment</i> , 2009 , 134, 234-242	5.7	74
72	Gross nitrogen process rates in temperate forest soils exhibiting symptoms of nitrogen saturation. <i>Forest Ecology and Management</i> , 2004 , 196, 129-142	3.9	73
71	Nitric and nitrous oxide emissions following fertilizer application to agricultural soil: Biotic and abiotic mechanisms and kinetics. <i>Journal of Geophysical Research</i> , 2000 , 105, 15117-15129		70
70	Fertilizer and Irrigation Management Effects on Nitrous Oxide Emissions and Nitrate Leaching. <i>Agronomy Journal</i> , 2014 , 106, 703-714	2.2	68
69	Reconciling the differences between top-down and bottom-up estimates of nitrous oxide emissions for the U.S. Corn Belt. <i>Global Biogeochemical Cycles</i> , 2013 , 27, 746-754	5.9	58
68	Evaluation of Intensive "4R" Strategies for Decreasing Nitrous Oxide Emissions and Nitrogen Surplus in Rainfed Corn. <i>Journal of Environmental Quality</i> , 2016 , 45, 1186-95	3.4	55
67	Soil Greenhouse Gas Emissions in Response to Corn Stover Removal and Tillage Management Across the US Corn Belt. <i>Bioenergy Research</i> , 2014 , 7, 517-527	3.1	53
66	Effects of manure and cultivation on carbon dioxide and nitrous oxide emissions from a corn field under Mediterranean conditions. <i>Journal of Environmental Quality</i> , 2010 , 39, 437-48	3.4	53
65	Nitrogen fertilization reduces yield declines following no-till adoption. <i>Field Crops Research</i> , 2015 , 183, 204-210	5.5	52
64	Nitrification gene ratio and free ammonia explain nitrite and nitrous oxide production in urea-amended soils. <i>Soil Biology and Biochemistry</i> , 2017 , 111, 143-153	7.5	51
63	US agricultural nitrous oxide emissions: context, status, and trends. <i>Frontiers in Ecology and the Environment</i> , 2012 , 10, 537-546	5.5	49
62	Split Application of Urea Does Not Decrease and May Increase Nitrous Oxide Emissions in Rainfed Corn. <i>Agronomy Journal</i> , 2015 , 107, 337-348	2.2	48
61	Carbon and Nitrogen Storage are Greater under Biennial Tillage in a Minnesota Corn/Soybean Rotation. <i>Soil Science Society of America Journal</i> , 2006 , 70, 1752-1762	2.5	46

60	Profile analysis and modeling of reduced tillage effects on soil nitrous oxide flux. <i>Journal of Environmental Quality</i> , 2008 , 37, 1360-7	3-4	45
59	Broadcast urea reduces N ₂ O but increases NO emissions compared with conventional and shallow-applied anhydrous ammonia in a coarse-textured soil. <i>Journal of Environmental Quality</i> , 2011 , 40, 1806-15	3-4	43
58	Survey of nitrogen fertilizer use on corn in Minnesota. <i>Agricultural Systems</i> , 2012 , 109, 43-52	6.1	42
57	Regional-scale controls on dissolved nitrous oxide in the Upper Mississippi River. <i>Geophysical Research Letters</i> , 2016 , 43, 4400-4407	4.9	39
56	Fertilizer management effects on nitrate leaching and indirect nitrous oxide emissions in irrigated potato production. <i>Journal of Environmental Quality</i> , 2011 , 40, 1103-12	3-4	37
55	Mechanisms of N ₂ O production following chloropicrin fumigation. <i>Applied Soil Ecology</i> , 2006 , 31, 101-109		37
54	Performance of Agricultural Residue Media in Laboratory Denitrifying Bioreactors at Low Temperatures. <i>Journal of Environmental Quality</i> , 2016 , 45, 779-87	3-4	37
53	Identifying environmental drivers of greenhouse gas emissions under warming and reduced rainfall in boreal/temperate forests. <i>Functional Ecology</i> , 2017 , 31, 2356-2368	5.6	36
52	Nitrogen Immobilization and Mineralization Kinetics of Cattle, Hog, and Turkey Manure Applied to Soil. <i>Soil Science Society of America Journal</i> , 2008 , 72, 1570-1579	2.5	36
51	Long-lasting effects on nitrogen cycling 12 years after treatments cease despite minimal long-term nitrogen retention. <i>Global Change Biology</i> , 2009 , 15, 1755-1766	11.4	35
50	Soil emissions of nitric oxide in two forest watersheds subjected to elevated N inputs. <i>Forest Ecology and Management</i> , 2004 , 196, 335-349	3.9	33
49	Nitrous Oxide Fluxes, Soil Oxygen, and Denitrification Potential of Urine- and Non-Urine-Treated Soil under Different Irrigation Frequencies. <i>Journal of Environmental Quality</i> , 2016 , 45, 1169-77	3-4	31
48	Effects of Soil Physical Nonuniformity on Chamber-Based Gas Flux Estimates. <i>Soil Science Society of America Journal</i> , 2008 , 72, 1410-1417	2.5	30
47	Greenhouse gas production and emission from a forest nursery soil following fumigation with chloropicrin and methyl isothiocyanate. <i>Soil Biology and Biochemistry</i> , 2005 , 37, 475-485	7.5	30
46	Landscape Patterns of Net Nitrification in a Northern Hardwood-Conifer Forest. <i>Soil Science Society of America Journal</i> , 2003 , 67, 527	2.5	29
45	Nitrous Oxide Fluxes and Soil Oxygen Dynamics of Soil Treated with Cow Urine. <i>Soil Science Society of America Journal</i> , 2017 , 81, 289-298	2.5	26
44	Theoretical Comparison of Advanced Methods for Calculating Nitrous Oxide Fluxes using Non-steady State Chambers. <i>Soil Science Society of America Journal</i> , 2013 , 77, 709-720	2.5	26
43	Urea Amendment Decreases Microbial Diversity and Selects for Specific Nitrifying Strains in Eight Contrasting Agricultural Soils. <i>Frontiers in Microbiology</i> , 2018 , 9, 634	5.7	23

42	Global Research Alliance N O chamber methodology guidelines: Flux calculations. <i>Journal of Environmental Quality</i> , 2020 , 49, 1141-1155	3.4	20
41	Enhanced Efficiency Fertilizers: A Multi-Site Comparison of the Effects on Nitrous Oxide Emissions and Agronomic Performance. <i>Agronomy Journal</i> , 2014 , 106, 679-680	2.2	20
40	Denitrifying Bacteria Active in Woodchip Bioreactors at Low-Temperature Conditions. <i>Frontiers in Microbiology</i> , 2019 , 10, 635	5.7	18
39	Density and pressure effects on the transport of gas phase chemicals in unsaturated porous media. <i>Water Resources Research</i> , 2003 , 39,	5.4	16
38	Nitrogen Management Affects Nitrous Oxide Emissions under Varying Cotton Irrigation Systems in the Desert Southwest, USA. <i>Journal of Environmental Quality</i> , 2018 , 47, 70-78	3.4	16
37	Split application of stabilized ammonium nitrate improved potato yield and nitrogen-use efficiency with reduced application rate in tropical sandy soils. <i>Field Crops Research</i> , 2020 , 254, 107847	5.5	14
36	NITROGEN OXIDE TRACE GAS TRANSPORT AND TRANSFORMATION: II. MODEL SIMULATIONS COMPARED WITH DATA. <i>Soil Science</i> , 2002 , 167, 49-61	0.9	14
35	Kura Clover Living Mulch: Spring Management Effects on Nitrogen. <i>Agronomy</i> , 2019 , 9, 69	3.6	13
34	Nitrite accumulation and nitrogen gas production increase with decreasing temperature in urea-amended soils: Experiments and modeling. <i>Soil Biology and Biochemistry</i> , 2020 , 142, 107727	7.5	13
33	Corn Nitrogen Management Influences Nitrous Oxide Emissions in Drained and Undrained Soils. <i>Journal of Environmental Quality</i> , 2016 , 45, 1847-1855	3.4	13
32	A geostatistical approach to identify and mitigate agricultural nitrous oxide emission hotspots. <i>Science of the Total Environment</i> , 2016 , 572, 442-449	10.2	13
31	Isolation and characterization of denitrifiers from woodchip bioreactors for bioaugmentation application. <i>Journal of Applied Microbiology</i> , 2020 , 129, 590-600	4.7	11
30	Soil Water Dynamics and Nitrate Leaching Under Corn/Soybean Rotation, Continuous Corn, and Kura Clover. <i>Vadose Zone Journal</i> , 2018 , 17, 1-11	2.7	11
29	Impact of Kura Clover Living Mulch on Nitrous Oxide Emissions in a Corn-Soybean System. <i>Journal of Environmental Quality</i> , 2016 , 45, 1782-1787	3.4	10
28	Contrasting effects of inhibitors and biostimulants on agronomic performance and reactive nitrogen losses during irrigated potato production. <i>Field Crops Research</i> , 2019 , 240, 143-153	5.5	9
27	Elevated CO ₂ and O ₃ modify N turnover rates, but not N ₂ O emissions in a soybean agroecosystem. <i>Soil Biology and Biochemistry</i> , 2012 , 51, 104-114	7.5	9
26	Anhydrous Ammonia Injection Depth Does Not Affect Nitrous Oxide Emissions in a Silt Loam over Two Growing Seasons. <i>Journal of Environmental Quality</i> , 2014 , 43, 1527-35	3.4	9
25	Effects of Nitrogen Fertilizer Types on Nitrous Oxide Emissions. <i>ACS Symposium Series</i> , 2011 , 179-202	0.4	9

24	Corn Response to Nitrogen Management under Fully-Irrigated vs. Water-Stressed Conditions. <i>Agronomy Journal</i> , 2016 , 108, 2089-2098	2.2	9
23	Assessing Microbial Contributions to N ₂ O Impacts Following Biochar Additions. <i>Agronomy</i> , 2014 , 4, 478-496	3.6	8
22	NITROGEN OXIDE TRACE GAS TRANSPORT AND TRANSFORMATION: I. EVALUATION OF DATA FROM INTACT SOIL CORES. <i>Soil Science</i> , 2002 , 167, 35-48	0.9	6
21	Co-application of DMPSA and NBPT with urea mitigates both nitrous oxide emissions and nitrate leaching during irrigated potato production. <i>Environmental Pollution</i> , 2021 , 284, 117124	9.3	6
20	Plastic Biofilm Carrier after Corn Cobs Reduces Nitrate Loading in Laboratory Denitrifying Bioreactors. <i>Journal of Environmental Quality</i> , 2017 , 46, 915-920	3.4	5
19	Measurements and Models to Identify Agroecosystem Practices That Enhance Soil Organic Carbon under Changing Climate. <i>Journal of Environmental Quality</i> , 2018 , 47, 579-587	3.4	5
18	Phosphorus and greenhouse gas dynamics in a drained calcareous wetland soil in Minnesota. <i>Journal of Environmental Quality</i> , 2009 , 38, 2147-58	3.4	5
17	Global Research Alliance N O chamber methodology guidelines: Introduction, with health and safety considerations. <i>Journal of Environmental Quality</i> , 2020 , 49, 1073-1080	3.4	5
16	Do Soil Tests Help Forecast Nitrogen Response in First-Year Corn Following Alfalfa on Fine-Textured Soils?. <i>Soil Science Society of America Journal</i> , 2017 , 81, 1640-1651	2.5	4
15	Kura Clover Living Mulch Reduces Fertilizer N Requirements and Increases Profitability of Maize. <i>Agronomy</i> , 2019 , 9, 432	3.6	4
14	Quantifying Biases in Non-Steady-State Chamber Measurements of Soil-Atmosphere Gas Exchange 2012 , 327-343		4
13	Managing biogeochemical cycles to reduce greenhouse gases. <i>Frontiers in Ecology and the Environment</i> , 2012 , 10, 511-511	5.5	4
12	USDA-ARS Global Change Research on Rangelands and Pasturelands. <i>Rangelands</i> , 2005 , 27, 36-42	1.1	4
11	LANDSCAPE AND REGIONAL SCALE STUDIES OF NITROGEN GAS FLUXES 2006 , 191-203		4
10	Temperature and water-level effects on greenhouse gas fluxes from black ash (<i>Fraxinus nigra</i>) wetland soils in the Upper Great Lakes region, USA. <i>Applied Soil Ecology</i> , 2020 , 153, 103565	5	3
9	Nitrous oxide emissions, N uptake, biomass, and rubber yield in N-fertilized, surface-irrigated guayule. <i>Industrial Crops and Products</i> , 2021 , 167, 113561	5.9	3
8	The role of alanine synthesis and nitrate-induced nitric oxide production during hypoxia stress in <i>Cucurbita pepo</i> nectaries. <i>Plant Journal</i> , 2021 , 105, 580-599	6.9	2
7	Response of nitrous oxide emissions to individual rain events and future changes in precipitation.. <i>Journal of Environmental Quality</i> , 2022 ,	3.4	2

6	Effect of simulated emerald ash borer infestation on nitrogen cycling in black ash (<i>Fraxinus nigra</i>) wetlands in northern Minnesota, USA. <i>Forest Ecology and Management</i> , 2020 , 458, 117769	3.9	1
5	Ammonium sorption and ammonia inhibition of nitrite-oxidizing bacteria explain contrasting soil N ₂ O production		1
4	Temperature alters dicyandiamide (DCD) efficacy for multiple reactive nitrogen species in urea-amended soils: Experiments and modeling. <i>Soil Biology and Biochemistry</i> , 2021 , 160, 108341	7.5	1
3	Modeling nitrous oxide mitigation potential of enhanced efficiency nitrogen fertilizers from agricultural systems. <i>Science of the Total Environment</i> , 2021 , 801, 149342	10.2	1
2	Greening vermont: the search for a sustainable state. <i>Journal of Environmental Quality</i> , 2013 , 42, 1908	3.4	
1	Capture efficiency of four chamber designs for measuring ammonia emissions 2021 , 4, e20199		