

# Rodney T Venterea

## 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.

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	Response of nitrous oxide emissions to individual rain events and future changes in precipitation.. <i>Journal of Environmental Quality</i> , <b>2022</b> ,	3.4	2
94	The role of alanine synthesis and nitrate-induced nitric oxide production during hypoxia stress in Cucurbita pepo nectaries. <i>Plant Journal</i> , <b>2021</b> , 105, 580-599	6.9	2
93	Co-application of DMPSA and NBPT with urea mitigates both nitrous oxide emissions and nitrate leaching during irrigated potato production. <i>Environmental Pollution</i> , <b>2021</b> , 284, 117124	9.3	6
92	Nitrous oxide emissions, N uptake, biomass, and rubber yield in N-fertilized, surface-irrigated guayule. <i>Industrial Crops and Products</i> , <b>2021</b> , 167, 113561	5.9	3
91	Temperature alters dicyandiamide (DCD) efficacy for multiple reactive nitrogen species in urea-amended soils: Experiments and modeling. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 160, 108341	7.5	1
90	Modeling nitrous oxide mitigation potential of enhanced efficiency nitrogen fertilizers from agricultural systems. <i>Science of the Total Environment</i> , <b>2021</b> , 801, 149342	10.2	1
89	Capture efficiency of four chamber designs for measuring ammonia emissions <b>2021</b> , 4, e20199		
88	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> , <b>2020</b> , 254, 107847	5.5	14
87	Global Research Alliance N O chamber methodology guidelines: Flux calculations. <i>Journal of Environmental Quality</i> , <b>2020</b> , 49, 1141-1155	3.4	20
86	Nitrite accumulation and nitrogen gas production increase with decreasing temperature in urea-amended soils: Experiments and modeling. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 142, 107727	7.5	13
85	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> , <b>2020</b> , 458, 117769	3.9	1
84	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> , <b>2020</b> , 153, 103565	5	3
83	Isolation and characterization of denitrifiers from woodchip bioreactors for bioaugmentation application. <i>Journal of Applied Microbiology</i> , <b>2020</b> , 129, 590-600	4.7	11
82	Global Research Alliance N O chamber methodology guidelines: Introduction, with health and safety considerations. <i>Journal of Environmental Quality</i> , <b>2020</b> , 49, 1073-1080	3.4	5
81	Contrasting effects of inhibitors and biostimulants on agronomic performance and reactive nitrogen losses during irrigated potato production. <i>Field Crops Research</i> , <b>2019</b> , 240, 143-153	5.5	9
80	Kura Clover Living Mulch: Spring Management Effects on Nitrogen. <i>Agronomy</i> , <b>2019</b> , 9, 69	3.6	13
79	Denitrifying Bacteria Active in Woodchip Bioreactors at Low-Temperature Conditions. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 635	5.7	18

78	Kura Clover Living Mulch Reduces Fertilizer N Requirements and Increases Profitability of Maize. <i>Agronomy</i> , <b>2019</b> , 9, 432	3.6	4
77	Measurements and Models to Identify Agroecosystem Practices That Enhance Soil Organic Carbon under Changing Climate. <i>Journal of Environmental Quality</i> , <b>2018</b> , 47, 579-587	3.4	5
76	Urea Amendment Decreases Microbial Diversity and Selects for Specific Nitrifying Strains in Eight Contrasting Agricultural Soils. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 634	5.7	23
75	Soil Water Dynamics and Nitrate Leaching Under Corn/Soybean Rotation, Continuous Corn, and Kura Clover. <i>Vadose Zone Journal</i> , <b>2018</b> , 17, 1-11	2.7	11
74	Nitrogen Management Affects Nitrous Oxide Emissions under Varying Cotton Irrigation Systems in the Desert Southwest, USA. <i>Journal of Environmental Quality</i> , <b>2018</b> , 47, 70-78	3.4	16
73	Nitrification gene ratio and free ammonia explain nitrite and nitrous oxide production in urea-amended soils. <i>Soil Biology and Biochemistry</i> , <b>2017</b> , 111, 143-153	7.5	51
72	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> , <b>2017</b> , 114, 12081-12085	11.5	97
71	Nitrous Oxide Fluxes and Soil Oxygen Dynamics of Soil Treated with Cow Urine. <i>Soil Science Society of America Journal</i> , <b>2017</b> , 81, 289-298	2.5	26
70	Plastic Biofilm Carrier after Corn Cobs Reduces Nitrate Loading in Laboratory Denitrifying Bioreactors. <i>Journal of Environmental Quality</i> , <b>2017</b> , 46, 915-920	3.4	5
69	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> , <b>2017</b> , 81, 1640-1651	2.5	4
68	Identifying environmental drivers of greenhouse gas emissions under warming and reduced rainfall in boreal/temperate forests. <i>Functional Ecology</i> , <b>2017</b> , 31, 2356-2368	5.6	36
67	Regional-scale controls on dissolved nitrous oxide in the Upper Mississippi River. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 4400-4407	4.9	39
66	Performance of Agricultural Residue Media in Laboratory Denitrifying Bioreactors at Low Temperatures. <i>Journal of Environmental Quality</i> , <b>2016</b> , 45, 779-87	3.4	37
65	Impact of Kura Clover Living Mulch on Nitrous Oxide Emissions in a Corn-Soybean System. <i>Journal of Environmental Quality</i> , <b>2016</b> , 45, 1782-1787	3.4	10
64	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> , <b>2016</b> , 45, 1169-77	3.4	31
63	Evaluation of Intensive "4R" Strategies for Decreasing Nitrous Oxide Emissions and Nitrogen Surplus in Rainfed Corn. <i>Journal of Environmental Quality</i> , <b>2016</b> , 45, 1186-95	3.4	55
62	Corn Response to Nitrogen Management under Fully-Irrigated vs. Water-Stressed Conditions. <i>Agronomy Journal</i> , <b>2016</b> , 108, 2089-2098	2.2	9
61	Corn Nitrogen Management Influences Nitrous Oxide Emissions in Drained and Undrained Soils. <i>Journal of Environmental Quality</i> , <b>2016</b> , 45, 1847-1855	3.4	13

60	A geostatistical approach to identify and mitigate agricultural nitrous oxide emission hotspots. <i>Science of the Total Environment</i> , <b>2016</b> , 572, 442-449	10.2	13
59	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> , <b>2015</b> , 112, 9839-43	11.5	98
58	When does no-till yield more? A global meta-analysis. <i>Field Crops Research</i> , <b>2015</b> , 183, 156-168	5.5	371
57	Nitrogen fertilization reduces yield declines following no-till adoption. <i>Field Crops Research</i> , <b>2015</b> , 183, 204-210	5.5	52
56	Productivity limits and potentials of the principles of conservation agriculture. <i>Nature</i> , <b>2015</b> , 517, 365-8	50.4	716
55	Ammonium sorption and ammonia inhibition of nitrite-oxidizing bacteria explain contrasting soil N <sub>2</sub> O production. <i>Scientific Reports</i> , <b>2015</b> , 5, 12153	4.9	89
54	Split Application of Urea Does Not Decrease and May Increase Nitrous Oxide Emissions in Rainfed Corn. <i>Agronomy Journal</i> , <b>2015</b> , 107, 337-348	2.2	48
53	Soil Greenhouse Gas Emissions in Response to Corn Stover Removal and Tillage Management Across the US Corn Belt. <i>Bioenergy Research</i> , <b>2014</b> , 7, 517-527	3.1	53
52	Assessing Microbial Contributions to N <sub>2</sub> O Impacts Following Biochar Additions. <i>Agronomy</i> , <b>2014</b> , 4, 478-496	3.6	8
51	Fertilizer and Irrigation Management Effects on Nitrous Oxide Emissions and Nitrate Leaching. <i>Agronomy Journal</i> , <b>2014</b> , 106, 703-714	2.2	68
50	Enhanced Efficiency Fertilizers: A Multi-Site Comparison of the Effects on Nitrous Oxide Emissions and Agronomic Performance. <i>Agronomy Journal</i> , <b>2014</b> , 106, 679-680	2.2	20
49	Anhydrous Ammonia Injection Depth Does Not Affect Nitrous Oxide Emissions in a Silt Loam over Two Growing Seasons. <i>Journal of Environmental Quality</i> , <b>2014</b> , 43, 1527-35	3.4	9
48	Climate, duration, and N placement determine N <sub>2</sub> O emissions in reduced tillage systems: a meta-analysis. <i>Global Change Biology</i> , <b>2013</b> , 19, 33-44	11.4	264
47	Nitrite intensity explains N management effects on N <sub>2</sub> O emissions in maize. <i>Soil Biology and Biochemistry</i> , <b>2013</b> , 66, 229-238	7.5	98
46	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> , <b>2013</b> , 27, 746-754	5.9	58
45	Theoretical Comparison of Advanced Methods for Calculating Nitrous Oxide Fluxes using Non-steady State Chambers. <i>Soil Science Society of America Journal</i> , <b>2013</b> , 77, 709-720	2.5	26
44	Greening vermont: the search for a sustainable state. <i>Journal of Environmental Quality</i> , <b>2013</b> , 42, 1908	3.4	
43	Elevated CO <sub>2</sub> and O <sub>3</sub> modify N turnover rates, but not N <sub>2</sub> O emissions in a soybean agroecosystem. <i>Soil Biology and Biochemistry</i> , <b>2012</b> , 51, 104-114	7.5	9

42	Biochar's role as an alternative N-fertilizer: ammonia capture. <i>Plant and Soil</i> , <b>2012</b> , 350, 35-42	4.2	197
41	Survey of nitrogen fertilizer use on corn in Minnesota. <i>Agricultural Systems</i> , <b>2012</b> , 109, 43-52	6.1	42
40	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> , <b>2012</b> , 10, 520-527	5.5	136
39	Quantifying Biases in Non-Steady-State Chamber Measurements of Soil-Atmosphere Gas Exchange <b>2012</b> , 327-343		4
38	Challenges and opportunities for mitigating nitrous oxide emissions from fertilized cropping systems. <i>Frontiers in Ecology and the Environment</i> , <b>2012</b> , 10, 562-570	5.5	177
37	US agricultural nitrous oxide emissions: context, status, and trends. <i>Frontiers in Ecology and the Environment</i> , <b>2012</b> , 10, 537-546	5.5	49
36	Calculating the detection limits of chamber-based soil greenhouse gas flux measurements. <i>Journal of Environmental Quality</i> , <b>2012</b> , 41, 705-15	3.4	143
35	Managing biogeochemical cycles to reduce greenhouse gases. <i>Frontiers in Ecology and the Environment</i> , <b>2012</b> , 10, 511-511	5.5	4
34	Effects of Nitrogen Fertilizer Types on Nitrous Oxide Emissions. <i>ACS Symposium Series</i> , <b>2011</b> , 179-202	0.4	9
33	Fertilizer management effects on nitrate leaching and indirect nitrous oxide emissions in irrigated potato production. <i>Journal of Environmental Quality</i> , <b>2011</b> , 40, 1103-12	3.4	37
32	Fertilizer source and tillage effects on yield-scaled nitrous oxide emissions in a corn cropping system. <i>Journal of Environmental Quality</i> , <b>2011</b> , 40, 1521-31	3.4	204
31	Broadcast urea reduces N <sub>2</sub> O but increases NO emissions compared with conventional and shallow-applied anhydrous ammonia in a coarse-textured soil. <i>Journal of Environmental Quality</i> , <b>2011</b> , 40, 1806-15	3.4	43
30	Polymer-Coated Urea Maintains Potato Yields and Reduces Nitrous Oxide Emissions in a Minnesota Loamy Sand. <i>Soil Science Society of America Journal</i> , <b>2010</b> , 74, 419-428	2.5	85
29	Urea Decreases Nitrous Oxide Emissions Compared with Anhydrous Ammonia in a Minnesota Corn Cropping System. <i>Soil Science Society of America Journal</i> , <b>2010</b> , 74, 407-418	2.5	83
28	Simplified method for quantifying theoretical underestimation of chamber-based trace gas fluxes. <i>Journal of Environmental Quality</i> , <b>2010</b> , 39, 126-35	3.4	86
27	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> , <b>2010</b> , 39, 437-48	3.4	53
26	Long-lasting effects on nitrogen cycling 12 years after treatments cease despite minimal long-term nitrogen retention. <i>Global Change Biology</i> , <b>2009</b> , 15, 1755-1766	11.4	35
25	Impact of reduced tillage and cover cropping on the greenhouse gas budget of a maize/soybean rotation ecosystem. <i>Agriculture, Ecosystems and Environment</i> , <b>2009</b> , 134, 234-242	5.7	74

24	Accuracy and Precision Analysis of Chamber-Based Nitrous Oxide Gas Flux Estimates. <i>Soil Science Society of America Journal</i> , <b>2009</b> , 73, 1087-1093	2.5	84
23	Phosphorus and greenhouse gas dynamics in a drained calcareous wetland soil in Minnesota. <i>Journal of Environmental Quality</i> , <b>2009</b> , 38, 2147-58	3.4	5
22	Profile analysis and modeling of reduced tillage effects on soil nitrous oxide flux. <i>Journal of Environmental Quality</i> , <b>2008</b> , 37, 1360-7	3.4	45
21	Effects of Soil Physical Nonuniformity on Chamber-Based Gas Flux Estimates. <i>Soil Science Society of America Journal</i> , <b>2008</b> , 72, 1410-1417	2.5	30
20	Nitrogen Immobilization and Mineralization Kinetics of Cattle, Hog, and Turkey Manure Applied to Soil. <i>Soil Science Society of America Journal</i> , <b>2008</b> , 72, 1570-1579	2.5	36
19	Nitrite-driven nitrous oxide production under aerobic soil conditions: kinetics and biochemical controls. <i>Global Change Biology</i> , <b>2007</b> , 13, 1798-1809	11.4	126
18	Tillage and soil carbon sequestration—What do we really know?. <i>Agriculture, Ecosystems and Environment</i> , <b>2007</b> , 118, 1-5	5.7	828
17	Mechanisms of N <sub>2</sub> O production following chloropicrin fumigation. <i>Applied Soil Ecology</i> , <b>2006</b> , 31, 101-109		37
16	Carbon and Nitrogen Storage are Greater under Biennial Tillage in a Minnesota Corn/Soybean Rotation. <i>Soil Science Society of America Journal</i> , <b>2006</b> , 70, 1752-1762	2.5	46
15	LANDSCAPE AND REGIONAL SCALE STUDIES OF NITROGEN GAS FLUXES <b>2006</b> , 191-203		4
14	Nitrogen oxide and methane emissions under varying tillage and fertilizer management. <i>Journal of Environmental Quality</i> , <b>2005</b> , 34, 1467-77	3.4	211
13	Greenhouse gas production and emission from a forest nursery soil following fumigation with chloropicrin and methyl isothiocyanate. <i>Soil Biology and Biochemistry</i> , <b>2005</b> , 37, 475-485	7.5	30
12	USDA-ARS Global Change Research on Rangelands and Pasturelands. <i>Rangelands</i> , <b>2005</b> , 27, 36-42	1.1	4
11	Gross nitrogen process rates in temperate forest soils exhibiting symptoms of nitrogen saturation. <i>Forest Ecology and Management</i> , <b>2004</b> , 196, 129-142	3.9	73
10	Soil emissions of nitric oxide in two forest watersheds subjected to elevated N inputs. <i>Forest Ecology and Management</i> , <b>2004</b> , 196, 335-349	3.9	33
9	Nitrogen oxide gas emissions from temperate forest soils receiving long-term nitrogen inputs. <i>Global Change Biology</i> , <b>2003</b> , 9, 346-357	11.4	109
8	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> , <b>2003</b> , 9, 1591-1601	11.4	88
7	Density and pressure effects on the transport of gas phase chemicals in unsaturated porous media. <i>Water Resources Research</i> , <b>2003</b> , 39,	5.4	16

6	Landscape Patterns of Net Nitrification in a Northern Hardwood-Conifer Forest. <i>Soil Science Society of America Journal</i> , <b>2003</b> , 67, 527	2.5	29
5	NITROGEN OXIDE TRACE GAS TRANSPORT AND TRANSFORMATION: II. MODEL SIMULATIONS COMPARED WITH DATA. <i>Soil Science</i> , <b>2002</b> , 167, 49-61	0.9	14
4	NITROGEN OXIDE TRACE GAS TRANSPORT AND TRANSFORMATION: I. EVALUATION OF DATA FROM INTACT SOIL CORES. <i>Soil Science</i> , <b>2002</b> , 167, 35-48	0.9	6
3	Mechanisms and kinetics of nitric and nitrous oxide production during nitrification in agricultural soil. <i>Global Change Biology</i> , <b>2000</b> , 6, 303-316	11.4	121
2	Nitric and nitrous oxide emissions following fertilizer application to agricultural soil: Biotic and abiotic mechanisms and kinetics. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 15117-15129		70
1	Ammonium sorption and ammonia inhibition of nitrite-oxidizing bacteria explain contrasting soil N <sub>2</sub> O production		1