

Thomas B Moorman

List of Publications by Year in descending order

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57
papers

2,565
citations

218662

26
h-index

206102

48
g-index

60
all docs

60
docs citations

60
times ranked

2808
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of Regional Soil Quality Factors and Indicators I. Central and Southern High Plains. Soil Science Society of America Journal, 2000, 64, 2115-2124.	2.2	300
2	Comparing Carbon Substrates for Denitrification of Subsurface Drainage Water. Journal of Environmental Quality, 2006, 35, 824-829.	2.0	183
3	Effect of organic carbon and pH on soil sorption of sulfamethazine. Chemosphere, 2009, 76, 558-564.	8.2	177
4	Denitrification activity, wood loss, and N ₂ O emissions over 9 years from a wood chip bioreactor. Ecological Engineering, 2010, 36, 1567-1574.	3.6	153
5	Biological soil health indicators respond to tillage intensity: A US meta-analysis. Geoderma, 2020, 369, 114335.	5.1	140
6	Distribution and Variability of Surface Soil Properties at a Regional Scale. Soil Science Society of America Journal, 2000, 64, 974-982.	2.2	120
7	Denitrification in Wood Chip Bioreactors at Different Water Flows. Journal of Environmental Quality, 2009, 38, 1664-1671.	2.0	105
8	Woodchip Denitrification Bioreactors: Impact of Temperature and Hydraulic Retention Time on Nitrate Removal. Journal of Environmental Quality, 2016, 45, 803-812.	2.0	100
9	Identifying associations among site properties and weed species abundance. I. Multivariate analysis. Weed Science, 2000, 48, 567-575.	1.5	74
10	Cover crop effects on nitrous oxide emission from a manure-treated Mollisol. Agriculture, Ecosystems and Environment, 2009, 134, 29-35.	5.3	73
11	Fluorescent In Situ Hybridization and Micro-autoradiography Applied to Ecophysiology in Soil. Soil Science Society of America Journal, 2007, 71, 620-631.	2.2	63
12	The Potential for Cereal Rye Cover Crops to Host Corn Seedling Pathogens. Phytopathology, 2016, 106, 591-601.	2.2	63
13	Fate and transport of tylosin-resistant bacteria and macrolide resistance genes in artificially drained agricultural fields receiving swine manure. Science of the Total Environment, 2016, 550, 1126-1133.	8.0	62
14	Tillage Intensity Effects on Soil Structure Indicators—A US Meta-Analysis. Sustainability, 2020, 12, 2071.	3.2	59
15	The soil health assessment protocol and evaluation applied to soil organic carbon. Soil Science Society of America Journal, 2021, 85, 1196-1213.	2.2	56
16	Performance of Agricultural Residue Media in Laboratory Denitrifying Bioreactors at Low Temperatures. Journal of Environmental Quality, 2016, 45, 779-787.	2.0	54
17	Sorption and Photodegradation Processes Govern Distribution and Fate of Sulfamethazine in Freshwater—Sediment Microcosms. Environmental Science & Technology, 2013, 47, 10877-10883.	10.0	45
18	Transport and Persistence of Tylosin-Resistant Enterococci, <i>erm</i> Genes, and Tylosin in Soil and Drainage Water from Fields Receiving Swine Manure. Journal of Environmental Quality, 2014, 43, 1484-1493.	2.0	41

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19	Salmonella and Fecal Indicator Bacteria Survival in Soils Amended with Poultry Manure. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1.	2.4	40
20	Effectiveness and competitiveness of spontaneous antibiotic-resistant mutants of <i>Rhizobium leguminosarum</i> and <i>Rhizobium japonicum</i> . <i>Soil Biology and Biochemistry</i> , 1986, 18, 259-262.	8.8	39
21	Detection of hepatitis E virus and other livestock-related pathogens in Iowa streams. <i>Science of the Total Environment</i> , 2016, 566-567, 1042-1051.	8.0	37
22	Role of Microbial Biomass Carbon and Nitrogen in Soil Quality. <i>SSSA Special Publication Series</i> , 0, , 203-215.	0.2	36
23	Enhancing Nutrient Cycling by Coupling Cover Crops with Manure Injection. <i>Agronomy Journal</i> , 2008, 100, 1735-1739.	1.8	34
24	Evaluating the potential role of denitrifying bioreactors in reducing watershed-scale nitrate loads: A case study comparing three Midwestern (USA) watersheds. <i>Ecological Engineering</i> , 2015, 75, 441-448.	3.6	33
25	Rye Cover Crop Effects on Direct and Indirect Nitrous Oxide Emissions. <i>Soil Science Society of America Journal</i> , 2016, 80, 1551-1559.	2.2	33
26	Effects of Herbicides on the Survival of <i>Rhizobium japonicum</i> Strains. <i>Weed Science</i> , 1986, 34, 628-633.	1.5	32
27	Nitrous oxide and methane production from denitrifying woodchip bioreactors at three hydraulic residence times. <i>Journal of Environmental Management</i> , 2019, 242, 290-297.	7.8	32
28	Temporal Dynamics of Bacterial Communities in Soil and Leachate Water After Swine Manure Application. <i>Frontiers in Microbiology</i> , 2018, 9, 3197.	3.5	30
29	Cover Crop Rotation Effects on Growth and Development, Seedling Disease, and Yield of Corn and Soybean. <i>Plant Disease</i> , 2020, 104, 677-687.	1.4	26
30	Comparative analysis of water budgets across the U.S. long-term agroecosystem research network. <i>Journal of Hydrology</i> , 2020, 588, 125021.	5.4	24
31	Seasonal variation of macrolide resistance gene abundances in the South Fork Iowa River Watershed. <i>Science of the Total Environment</i> , 2018, 610-611, 1173-1179.	8.0	23
32	Mineralization of PAHs in coal-tar impacted aquifer sediments and associated microbial community structure investigated with FISH. <i>Chemosphere</i> , 2007, 69, 1563-1573.	8.2	20
33	Investigating the dispersal of antibiotic resistance associated genes from manure application to soil and drainage waters in simulated agricultural farmland systems. <i>PLoS ONE</i> , 2019, 14, e0222470.	2.5	20
34	Seasonal variations in export of antibiotic resistance genes and bacteria in runoff from an agricultural watershed in Iowa. <i>Science of the Total Environment</i> , 2020, 738, 140224.	8.0	20
35	Effects of fungicide seed treatments and a winter cereal rye cover crop in no till on the seedling disease complex in corn. <i>Canadian Journal of Plant Pathology</i> , 2018, 40, 481-497.	1.4	18
36	Herbicide and Antibiotic Removal by Woodchip Denitrification Filters: Sorption Processes. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 2651-2662.	2.4	17

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37	Monitoring tylosin and sulfamethazine in a tile-drained agricultural watershed using polar organic chemical integrative sampler (POCIS). <i>Science of the Total Environment</i> , 2018, 612, 358-367.	8.0	17
38	Effect of Swine Manure on Sulfamethazine Degradation in Aerobic and Anaerobic Soils. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	2.4	15
39	Soil nitrogen response to coupling cover crops with manure injection. <i>Nutrient Cycling in Agroecosystems</i> , 2010, 87, 383-393.	2.2	14
40	Impact of flow on woodchip properties and subsidence in denitrifying bioreactors. , 2021, 4, e20149.		14
41	Effects of cover crop presence, cover crop species selection and fungicide seed treatment on corn seedling growth. <i>Renewable Agriculture and Food Systems</i> , 2019, 34, 93-102.	1.8	13
42	Practical implications of erythromycin resistance gene diversity on surveillance and monitoring of resistance. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	2.7	12
43	Nitrate losses and nitrous oxide emissions under contrasting tillage and cover crop management. <i>Journal of Environmental Quality</i> , 2022, 51, 683-695.	2.0	12
44	The USDAâ€CARS Experimental Watershed Network: Evolution, Lessons Learned, Societal Benefits, and Moving Forward. <i>Water Resources Research</i> , 2021, 57, e2019WR026473.	4.2	11
45	A SMAF assessment of U.S. tillage and crop management strategies. <i>Environmental and Sustainability Indicators</i> , 2020, 8, 100072.	3.3	9
46	Catchment-scale export of antibiotic resistance genes and bacteria from an agricultural watershed in central Iowa. <i>PLoS ONE</i> , 2020, 15, e0227136.	2.5	9
47	Adaptation of Microorganisms in Subsurface Environments. <i>ACS Symposium Series</i> , 1990, , 167-180.	0.5	8
48	Phytotoxicity of Pesticide Degradation Products. <i>ACS Symposium Series</i> , 1991, , 188-204.	0.5	7
49	How does tillage intensity affect chemical soil health indicators? A United States metaâ€Canalysis. , 2020, 3, e20083.		7
50	Plastic Biofilm Carrier after Corn Cobs Reduces Nitrate Loading in Laboratory Denitrifying Bioreactors. <i>Journal of Environmental Quality</i> , 2017, 46, 915-920.	2.0	6
51	Antibiotic resistance gene dissipation in soil microcosms amended with antibiotics and swine manure. <i>Journal of Environmental Quality</i> , 2021, 50, 911-922.	2.0	6
52	Method to Evaluate the Age of Groundwater Inputs to Surface Waters by Determining the Chirality Change of Metolachlor Ethanesulfonic Acid (MESA) Captured on a Polar Organic Chemical Integrative Sampler (POCIS). <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 2297-2305.	5.2	5
53	Prairie Strips Impact on Transport of Antimicrobial Resistance Indicators in Poultry Litter. <i>Journal of Environmental Quality</i> , 2022, , .	2.0	4
54	Comparison of microbial communities in replicated woodchip bioreactors. <i>Journal of Environmental Quality</i> , 2021, , .	2.0	4

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55	Pâ€FLUX: A phosphorus budget dataset spanning diverse agricultural production systems in the United States and Canada. <i>Journal of Environmental Quality</i> , 2022, 51, 451-461.	2.0	4
56	Fate and bioavailability of sulfamethazine in freshwater ecosystems. <i>ACS Symposium Series</i> , 2010, , 121-131.	0.5	3
57	Degradation of tetracycline, sulfamethazine, and tylosin in soil from prairie strips and row crops in Iowa. , 2022, 5, .		2