

Thomas B Moorman

List of Publications by Citations

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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.

52
papers

1,768
citations

23
h-index

41
g-index

60
ext. papers

2,118
ext. citations

4.3
avg, IF

4.97
L-index

#	Paper	IF	Citations
52	Identification of Regional Soil Quality Factors and Indicators I. Central and Southern High Plains. <i>Soil Science Society of America Journal</i> , 2000 , 64, 2115-2124	2.5	221
51	Effect of organic carbon and pH on soil sorption of sulfamethazine. <i>Chemosphere</i> , 2009 , 76, 558-64	8.4	157
50	Comparing carbon substrates for denitrification of subsurface drainage water. <i>Journal of Environmental Quality</i> , 2006 , 35, 824-9	3.4	147
49	Denitrification activity, wood loss, and N ₂ O emissions over 9 years from a wood chip bioreactor. <i>Ecological Engineering</i> , 2010 , 36, 1567-1574	3.9	126
48	Distribution and Variability of Surface Soil Properties at a Regional Scale. <i>Soil Science Society of America Journal</i> , 2000 , 64, 974-982	2.5	95
47	Denitrification in wood chip bioreactors at different water flows. <i>Journal of Environmental Quality</i> , 2009 , 38, 1664-71	3.4	82
46	Identifying associations among site properties and weed species abundance. I. Multivariate analysis. <i>Weed Science</i> , 2000 , 48, 567-575	2	68
45	Woodchip Denitrification Bioreactors: Impact of Temperature and Hydraulic Retention Time on Nitrate Removal. <i>Journal of Environmental Quality</i> , 2016 , 45, 803-12	3.4	62
44	Biological soil health indicators respond to tillage intensity: A US meta-analysis. <i>Geoderma</i> , 2020 , 369, 114335	6.7	60
43	Cover crop effects on nitrous oxide emission from a manure-treated Mollisol. <i>Agriculture, Ecosystems and Environment</i> , 2009 , 134, 29-35	5.7	56
42	Fate and transport of tylosin-resistant bacteria and macrolide resistance genes in artificially drained agricultural fields receiving swine manure. <i>Science of the Total Environment</i> , 2016 , 550, 1126-1133	10.2	45
41	The Potential for Cereal Rye Cover Crops to Host Corn Seedling Pathogens. <i>Phytopathology</i> , 2016 , 106, 591-601	3.8	40
40	Fluorescent In Situ Hybridization and Micro-autoradiography Applied to Ecophysiology in Soil. <i>Soil Science Society of America Journal</i> , 2007 , 71, 620-631	2.5	39
39	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	7.5	38
38	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
37	Tillage Intensity Effects on Soil Structure Indicators: A US Meta-Analysis. <i>Sustainability</i> , 2020 , 12, 2071	3.6	34
36	Transport and persistence of tylosin-resistant enterococci, genes, and tylosin in soil and drainage water from fields receiving Swine manure. <i>Journal of Environmental Quality</i> , 2014 , 43, 1484-93	3.4	34

35	Sorption and photodegradation processes govern distribution and fate of sulfamethazine in freshwater-sediment microcosms. <i>Environmental Science & Technology</i> , 2013 , 47, 10877-83	10.3	34
34	Enhancing Nutrient Cycling by Coupling Cover Crops with Manure Injection. <i>Agronomy Journal</i> , 2008 , 100, 1735-1739	2.2	30
33	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	3.9	27
32	Effects of Herbicides on the Survival of <i>Rhizobium japonicum</i> Strains. <i>Weed Science</i> , 1986 , 34, 628-633	2	27
31	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	10.2	24
30	Salmonella and Fecal Indicator Bacteria Survival in Soils Amended with Poultry Manure. <i>Water, Air, and Soil Pollution</i> , 2018 , 229, 1	2.6	23
29	Rye Cover Crop Effects on Direct and Indirect Nitrous Oxide Emissions. <i>Soil Science Society of America Journal</i> , 2016 , 80, 1551-1559	2.5	19
28	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	10.2	18
27	Mineralization of PAHs in coal-tar impacted aquifer sediments and associated microbial community structure investigated with FISH. <i>Chemosphere</i> , 2007 , 69, 1563-73	8.4	18
26	Herbicide and Antibiotic Removal by Woodchip Denitrification Filters: Sorption Processes. <i>Water, Air, and Soil Pollution</i> , 2012 , 223, 2651-2662	2.6	17
25	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	10.2	16
24	Nitrous oxide and methane production from denitrifying woodchip bioreactors at three hydraulic residence times. <i>Journal of Environmental Management</i> , 2019 , 242, 290-297	7.9	14
23	The soil health assessment protocol and evaluation applied to soil organic carbon. <i>Soil Science Society of America Journal</i> , 2021 , 85, 1196-1213	2.5	14
22	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	3.7	12
21	Effect of Swine Manure on Sulfamethazine Degradation in Aerobic and Anaerobic Soils. <i>Water, Air, and Soil Pollution</i> , 2015 , 226, 1	2.6	12
20	Role of Microbial Biomass Carbon and Nitrogen in Soil Quality. <i>SSSA Special Publication Series</i> , 2015 , 203-215		12
19	Soil nitrogen response to coupling cover crops with manure injection. <i>Nutrient Cycling in Agroecosystems</i> , 2010 , 87, 383-393	3.3	12
18	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	1.6	11

17	Temporal Dynamics of Bacterial Communities in Soil and Leachate Water After Swine Manure Application. <i>Frontiers in Microbiology</i> , 2018 , 9, 3197	5.7	11
16	Comparative analysis of water budgets across the U.S. long-term agroecosystem research network. <i>Journal of Hydrology</i> , 2020 , 588, 125021	6	9
15	Cover Crop Rotation Effects on Growth and Development, Seedling Disease, and Yield of Corn and Soybean. <i>Plant Disease</i> , 2020 , 104, 677-687	1.5	9
14	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	10.2	8
13	Adaptation of Microorganisms in Subsurface Environments. <i>ACS Symposium Series</i> , 1990 , 167-180	0.4	8
12	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	7
11	Practical implications of erythromycin resistance gene diversity on surveillance and monitoring of resistance. <i>FEMS Microbiology Ecology</i> , 2018 , 94,	4.3	6
10	Catchment-scale export of antibiotic resistance genes and bacteria from an agricultural watershed in central Iowa. <i>PLoS ONE</i> , 2020 , 15, e0227136	3.7	5
9	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
8	Phytotoxicity of Pesticide Degradation Products. <i>ACS Symposium Series</i> , 1991 , 188-204	0.4	4
7	How does tillage intensity affect chemical soil health indicators? A United States meta-analysis 2020 , 3, e20083		4
6	The USDA-ARS Experimental Watershed Network: Evolution, Lessons Learned, Societal Benefits, and Moving Forward. <i>Water Resources Research</i> , 2021 , 57, e2019WR026473	5.4	3
5	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	5.7	2
4	Fate and bioavailability of sulfamethazine in freshwater ecosystems. <i>ACS Symposium Series</i> , 2010 , 121-131	14	1
3	A SMAF assessment of U.S. tillage and crop management strategies. <i>Environmental and Sustainability Indicators</i> , 2020 , 8, 100072	3.5	1
2	Antibiotic resistance gene dissipation in soil microcosms amended with antibiotics and swine manure. <i>Journal of Environmental Quality</i> , 2021 , 50, 911-922	3.4	1
1	Impact of flow on woodchip properties and subsidence in denitrifying bioreactors 2021 , 4, e20149		1