Tiequan Zhang

List of Publications by Year
in descending order

81 papers	1,855 citations	304743 22 h-index	302126 39 g-index
82 all docs	82 docs citations	82 times ranked	2102 citing authors

#	Article	IF	Citations
1	Land management effects on the near-surface physical quality of a clay loam soil. Soil and Tillage Research, 2007, 96, 316-330.	5.6	175
2	Preparation and FT-IR Characterization of Metal Phytate Compounds. Journal of Environmental Quality, 2006, 35, 1319-1328.	2.0	113
3	Simulating water content, crop yield and nitrate-N loss under free and controlled tile drainage with subsurface irrigation using the DSSAT model. Agricultural Water Management, 2011, 98, 1105-1111.	5.6	105
4	Selection of a Waterâ€Extractable Phosphorus Test for Manures and Biosolids as an Indicator of Runoff Loss Potential. Journal of Environmental Quality, 2007, 36, 1357-1367.	2.0	90
5	Reducing Nitrate Loss in Tile Drainage Water with Cover Crops and Water-Table Management Systems. Journal of Environmental Quality, 2014, 43, 587-598.	2.0	88
6	SOLID-STATE FOURIER TRANSFORM INFRARED AND 31P NUCLEAR MAGNETIC RESONANCE SPECTRAL FEATURES OF PHOSPHATE COMPOUNDS. Soil Science, 2007, 172, 501-515.	0.9	82
7	Soil Tests as Risk Indicators for Leaching of Dissolved Phosphorus from Agricultural Soils in Ontario. Soil Science Society of America Journal, 2012, 76, 220-229.	2.2	80
8	Estimating Dissolved Reactive Phosphorus Concentration in Surface Runoff Water from Major Ontario Soils. Journal of Environmental Quality, 2010, 39, 1771-1781.	2.0	56
9	Accounting for the Risks of Phosphorus Losses through Tile Drains in a Phosphorus Index. Journal of Environmental Quality, 2012, 41, 1720-1729.	2.0	47
10	Water Quality and Crop Production Improvement Using a Wetland-Reservoir and Draining/Subsurface Irrigation System. Canadian Water Resources Journal, 2007, 32, 129-136.	1.2	46
11	A phosphorus sorption index and its use to estimate leaching of dissolved phosphorus from agricultural soils in Ontario. Geoderma, 2016, 274, 79-87.	5.1	42
12	Various forms of organic and inorganic P fertilizers did not negatively affect soil- and root-inhabiting AM fungi in a maizeâ€“soybean rotation system. Mycorrhiza, 2013, 23, 143-154.	2.8	36
13	Tile Drainage Phosphorus Loss with Long-Term Consistent Cropping Systems and Fertilization. Journal of Environmental Quality, 2015, 44, 503-511.	2.0	36
14	Responses of Fruit Yield and Quality of Processing Tomato to Dripâ€Irrigation and Fertilizers Phosphorus and Potassium. Agronomy Journal, 2011, 103, 1339-1345.	1.8	35
15	Agronomic and environmental soil phosphorus tests for predicting potential phosphorus loss from Ontario soils. Geoderma, 2015, 241-242, 51-58.	5.1	31
16	Changes of phosphorous fractions under continuous corn production in a temperate clay soil. Plant and Soil, 1997, 192, 133-139.	3.7	30
17	Guiding phosphorus stewardship for multiple ecosystem services. Ecosystem Health and Sustainability, 2016, 2, .	3.1	30
18	Effect of long-term conventional tillage and no-tillage systems on soil and water quality at the field scale. Water Science and Technology, 2002, 46, 183-190.	2.5	27

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19	Yield and Economic Assessments of Fertilizer Nitrogen and Phosphorus for Processing Tomato with Drip Fertigation. Agronomy Journal, 2010, 102, 774-780.	1.8	26
20	Phosphorus Sorption Parameters of Soils and Their Relationships with Soil Test Phosphorus. Soil Science Society of America Journal, 2015, 79, 672-680.	2.2	26
21	Characterization of sedimentary phosphorus in Lake Erie and on-site quantification of internal phosphorus loading. Water Research, 2021, 188, 116525.	11.3	26
22	Soil microbial carbon and phosphorus as influenced by phosphorus fertilization and tillage in a maize-soybean rotation in south-western Quebec. Canadian Journal of Soil Science, 2008, 88, 21-30.	1.2	25
23	Phosphorus loss by surface runoff from agricultural field plots with different cropping systems. Nutrient Cycling in Agroecosystems, 2011, 90, 23-32.	2.2	25
24	Drainage water management combined with cover crop enhances reduction of soil phosphorus loss. Science of the Total Environment, 2017, 586, 362-371.	8.0	23
25	Modeling phosphorus losses from soils amended with cattle manures and chemical fertilizers. Science of the Total Environment, 2018, 639, 580-587.	8.0	23
26	Up-Regulation of circEIF6 Contributes to Pancreatic Cancer Development Through Targeting miR-557/SLC7A11/PI3K/AKT Signaling. Cancer Management and Research, 2021, Volume 13, 247-258.	1.9	23
27	Distinction of Metal Species of Phytate by Solid-State Spectroscopic Techniques. Soil Science Society of America Journal, 2007, 71, 940-943.	2.2	21
28	Modeling hourly subsurface drainage using steady-state and transient methods. Journal of Hydrology, 2017, 550, 516-526.	5.4	20
29	Phosphorus fate, transport and management on subsurface drained agricultural organic soils: a review. Environmental Research Letters, 2021, 16, 013004.	5.2	20
30	Soil phosphorus loss in tile drainage water from long-term conventional- and non-tillage soils of Ontario with and without compost addition. Science of the Total Environment, 2017, 580, 9-16.	8.0	19
31	Modelling carbon dioxide emissions under a maize-soy rotation using machine learning. Biosystems Engineering, 2021, 212, 1-18.	4.3	19
32	Approximating Phosphorus Leaching from Agricultural Organic Soils by Soil Testing. Journal of Environmental Quality, 2015, 44, 1871-1882.	2.0	18
33	Simulating crop yield, surface runoff, tile drainage and phosphorus loss in a clay loam soil of the Lake Erie region using EPIC. Agricultural Water Management, 2018, 204, 212-221.	5.6	18
34	Development and evaluation of a phosphorus (P) module in RZWQM2 for phosphorus management in agricultural fields. Environmental Modelling and Software, 2019, 113, 48-58.	4.5	18
35	Impacts of Soil Conditioners and Water Table Management on Phosphorus Loss in Tile Drainage from a Clay Loam Soil. Journal of Environmental Quality, 2015, 44, 572-584.	2.0	17
36	Crop yield and phosphorus uptake as affected by phosphorus-based swine manure application under long-term corn-soybean rotation. Nutrient Cycling in Agroecosystems, 2015, 103, 217-228.	2.2	17

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37	Linking soil microbial community structure to potential carbon mineralization: A continental scale assessment of reduced tillage. Soil Biology and Biochemistry, 2022, 168, 108618.	8.8	17
38	Phosphorus source coefficient determination for quantifying phosphorus loss risk of various animal manures. Geoderma, 2016, 278, 23-31.	5.1	16
39	Processing tomato phosphorus utilization and post-harvest soil profile phosphorus as affected by phosphorus and potassium additions and drip irrigation. Canadian Journal of Soil Science, 2011, 91, 417-425.	1.2	15
40	Processing Tomato Nitrogen Utilization and Soil Residual Nitrogen as Influenced by Nitrogen and Phosphorus Additions with Dripâ€Fertigation. Soil Science Society of America Journal, 2011, 75, 738-745.	2.2	15
41	Modeling of phosphorus loss from field to watershed: A review. Journal of Environmental Quality, 2020, 49, 1203-1224.	2.0	15
42	Solute dynamics and the Ontario nitrogen index: II. Nitrate leaching. Canadian Journal of Soil Science, 2016, 96, 122-135.	1.2	14
43	Chemical Structures of Manure from Conventional and Phytase Transgenic Pigs Investigated by Advanced Solid-State NMR Spectroscopy. Journal of Agricultural and Food Chemistry, 2008, 56, 2131-2138.	5.2	13
44	Modeling and Mitigating Phosphorus Losses from a Tileâ€Drained and Manured Field Using RZWQM2â€P. Journal of Environmental Quality, 2019, 48, 995-1005.	2.0	13
45	Modeling the Impacts of Manure on Phosphorus Loss in Surface Runoff and Subsurface Drainage. Journal of Environmental Quality, 2019, 48, 39-46.	2.0	12
46	Comparison of RZWQM2 and DNDC Models to Simulate Greenhouse Gas Emissions under Combined Inorganic/Organic Fertilization in a Subsurface-Drained Field. Transactions of the ASABE, 2020, 63, 771-787.	1.1	12
47	Modeling impacts of climate change on crop yield and phosphorus loss in a subsurface drained field of Lake Erie region, Canada. Agricultural Systems, 2021, 190, 103110.	6.1	12
48	Soil Testing to Predict Dissolved Reactive Phosphorus Loss in Surface Runoff from Organic Soils. Soil Science Society of America Journal, 2014, 78, 1786-1796.	2.2	10
49	Phosphorus Loss Mitigation in Leachate and Surface Runoff from Clay Loam Soil Using Four Lime-Based Materials. Water, Air, and Soil Pollution, 2018, 229, 1.	2.4	10
50	Solid Cattle Manure Less Prone to Phosphorus Loss in Tile Drainage Water. Journal of Environmental Quality, 2018, 47, 318-325.	2.0	10
51	Crop Production and Phosphorus Legacy with Long-Term Phosphorus- and Nitrogen-Based Swine Manure Applications under Corn-Soybean Rotation. Agronomy, 2021, 11, 1548.	3.0	10
52	Temporal patterns of soil phosphorus release to runoff during a rainfall event as influenced by soil properties and its effects on estimating soil P losses. Canadian Journal of Soil Science, 2011, 91, 339-347.	1.2	9
53	Overriding sorafenib resistance via blocking lipid metabolism and Ras by sphingomyelin synthase 1 inhibition in hepatocellular carcinoma. Cancer Chemotherapy and Pharmacology, 2021, 87, 217-228.	2.3	9
54	Cadmium Treatment Alters the Expression of Five Genes at theCda1Locus in Two Soybean Cultivars [Glycine Max(L.) Merr]. Scientific World Journal, The, 2014, 2014, 1-8.	2.1	8

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55	Soil Test Phosphorus and Phosphorus Availability of Swine Manures with Longâ€Term Application. Agronomy Journal, 2018, 110, 1943-1950.	1.8	8
56	An 11-Year Agronomic, Economic, and Phosphorus Loss Potential Evaluation of Legacy Phosphorus Utilization in a Clay Loam Soil of the Lake Erie Basin. Frontiers in Earth Science, 2020, 8, .	1.8	8
57	Solute dynamics and the Ontario nitrogen index: I. Chloride leaching. Canadian Journal of Soil Science, 2016, 96, 105-121.	1.2	7
58	Modeling Phosphorus Losses through Surface Runoff and Subsurface Drainage Using ICECREAM. Journal of Environmental Quality, 2018, 47, 203-211.	2.0	7
59	Manure-induced carbon retention measured from long-term field studies in Canada. Agriculture, Ecosystems and Environment, 2021, 321, 107619.	5.3	7
60	Nitrous oxide emissions as affected by fertilizer and water table management under a corn-soybean rotation. Geoderma, 2020, 375, 114473.	5.1	6
61	Short-term carbon dioxide emissions and denitrification losses from soils amended with low-P manure from genetically modified pigs. Nutrient Cycling in Agroecosystems, 2008, 80, 153-160.	2.2	5
62	Evaluation of Agronomic and Economic Effects of Nitrogen and Phosphorus Additions to Green Pepper with Drip Fertigation. Agronomy Journal, 2010, 102, 1434-1440.	1.8	5
63	Predicting environmental soil phosphorus limits for dissolved reactive phosphorus loss. Soil Use and Management, 2016, 32, 60-68.	4.9	5
64	Crop and soil nitrogen responses to phosphorus and potassium fertilization and drip irrigation under processing tomato. Nutrient Cycling in Agroecosystems, 2012, 93, 151-162.	2.2	4
65	Effects of Arbuscular Mycorrhizal Fungal Inoculation and Phosphorus (P) Addition on Maize P Utilization and Growth in Reclaimed Soil of a Mining Area. Communications in Soil Science and Plant Analysis, 2014, 45, 2413-2428.	1.4	4
66	Langmuir Equation Modifications to Describe Phosphorus Sorption in Soils of Ontario, Canada. Soil Science, 2014, 179, 536-546.	0.9	4
67	Environmental Indicator Principium with Case References to Agricultural Soil, Water, and Air Quality and Modelâ€Derived Indicators. Journal of Environmental Quality, 2018, 47, 191-202.	2.0	4
68	Evaluating RZ-SHAW model for simulating surface runoff and subsurface tile drainage under regular and controlled drainage with subirrigation in southern Ontario. Agricultural Water Management, 2020, 237, 106179.	5.6	4
69	Evaluating the Influence of Storage Time, Sampleâ€handling Method, and Filter Paper on the Measurement of Waterâ€Extractable Phosphorus in Animal Manures. Communications in Soil Science and Plant Analysis, 2006, 37, 451-463.	1.4	3
70	Effects of Suburban Land Use on Phosphorus Fractions and Speciation in the Upper Peruque Creek, Eastern Missouri. Water Environment Research, 2008, 80, 316-323.	2.7	3
71	Nano-Scale Drinking Water Treatment Residuals Affect Arsenic Fractionation and Speciation in Biosolids-Amended Agricultural Soil. Applied Sciences (Switzerland), 2020, 10, 5633.	2.5	3
72	Modeling tillage and manure application on soil phosphorous loss under climate change. Nutrient Cycling in Agroecosystems, 2022, 122, 219-239.	2.2	3

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73	Phosphorus characteristics of Canada-wide animal manures and implications for sustainable manure management with a cleaner environment. Science of the Total Environment, 2022, 845, 157200.	8.0	3
74	Inorganic N Dynamics from Soils Amended with Low-P Manure from Genetically Modified Pigs (EnviropigTM). Nutrient Cycling in Agroecosystems, 2006, 75, 297-304.	2.2	2
75	Developing and evaluating a phosphorus (P) module in RZWQM2 for phosphorus management in tile drained agricultural fields. , 2017, , .		2
76	Zero-Valent Iron Nanoparticles Remediate Nickel-Contaminated Aqueous Solutions and Biosolids-Amended Agricultural Soil. Materials, 2021, 14, 2655.	2.9	2
77	Prospects and challenges in the use of models to estimate the influence of crop residue input on soil organic carbon in long-term experiments in Canada. Geoderma Regional, 2022, 30, e00534.	2.1	2
78	Response of Chinese Cabbage Cultivars to Petiole Spotting and Bacterial Soft Rot. HortTechnology, 2003, 13, 190-195.	0.9	1
79	Nitrogen and Phosphorus Losses in Surface Runoff Water from Various Cash Cropping Systems. , 2010, , .		0
80	Effects of Bacterial and Fungal Inoculants in a Loess Soil Amended with Various Phosphorus Sources on Pea Growth and Phosphorus Uptake. Communications in Soil Science and Plant Analysis, 2013, 44, 2008-2018.	1.4	0
81	<i>Global sensitivity analysis of RZWQM2-P in simulation of agricultural phosphorus loss</i>. , 2020, , .		0