

Zhiming Qi

List of Publications by Year in descending order

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89
papers

1,769
citations

257450

24
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330143

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all docs

89
docs citations

89
times ranked

1808
citing authors

#	ARTICLE	IF	CITATIONS
1	Calibration and validation of DRAINMOD to design subsurface drainage systems for Iowa's tile landscapes. <i>Agricultural Water Management</i> , 2006, 85, 221-232.	5.6	114
2	Irrigation Scheduling Approaches and Applications: A Review. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2020, 146, .	1.0	94
3	An integrated soil-crop system model for water and nitrogen management in North China. <i>Scientific Reports</i> , 2016, 6, 25755.	3.3	74
4	Soil Water Dynamics under Winter Rye Cover Crop in Central Iowa. <i>Vadose Zone Journal</i> , 2010, 9, 53.	2.2	68
5	Simulation of maize evapotranspiration: An inter-comparison among 29 maize models. <i>Agricultural and Forest Meteorology</i> , 2019, 271, 264-284.	4.8	62
6	Development of an irrigation scheduling software based on model predicted crop water stress. <i>Computers and Electronics in Agriculture</i> , 2017, 143, 208-221.	7.7	58
7	Modeling the impacts of climate change on nitrogen losses and crop yield in a subsurface drained field. <i>Climatic Change</i> , 2015, 129, 323-335.	3.6	56
8	Nitrate-Nitrogen Losses through Subsurface Drainage under Various Agricultural Land Covers. <i>Journal of Environmental Quality</i> , 2011, 40, 1578-1585.	2.0	53
9	Simulating impacts of climate change on cotton yield and water requirement using RZWQM2. <i>Agricultural Water Management</i> , 2019, 222, 231-241.	5.6	49
10	Soil water dynamics under various agricultural land covers on a subsurface drained field in north-central Iowa, USA. <i>Agricultural Water Management</i> , 2011, 98, 665-674.	5.6	46
11	Using bootstrap ELM and LSSVM models to estimate river ice thickness in the Mackenzie River Basin in the Northwest Territories, Canada. <i>Journal of Hydrology</i> , 2019, 577, 123903.	5.4	39
12	Development of the DNDC model to improve soil hydrology and incorporate mechanistic tile drainage: A comparative analysis with RZWQM2. <i>Environmental Modelling and Software</i> , 2020, 123, 104577.	4.5	39
13	Global sensitivity and uncertainty analysis of nitrate leaching and crop yield simulation under different water and nitrogen management practices. <i>Computers and Electronics in Agriculture</i> , 2017, 142, 201-210.	7.7	36
14	Evaluation of a new irrigation decision support system in improving cotton yield and water productivity in an arid climate. <i>Agricultural Water Management</i> , 2020, 234, 106139.	5.6	34
15	Impacts of climate change and human activities on vegetation NDVI in China's Mu Us Sandy Land during 2000-2019. <i>Ecological Indicators</i> , 2022, 142, 109164.	6.3	33
16	Effects of alternate wetting and drying irrigation on yield, water and nitrogen use, and greenhouse gas emissions in rice paddy fields. <i>Journal of Cleaner Production</i> , 2022, 349, 131487.	9.3	32
17	Land-use impacts on profile distribution of labile and recalcitrant carbon in the Ili River Valley, northwest China. <i>Science of the Total Environment</i> , 2017, 586, 1038-1045.	8.0	30
18	Mitigating greenhouse gas emissions in subsurface-drained field using RZWQM2. <i>Science of the Total Environment</i> , 2019, 646, 377-389.	8.0	30

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19	Assessing climate change impacts on greenhouse gas emissions, N losses in drainage and crop production in a subsurface drained field. <i>Science of the Total Environment</i> , 2020, 705, 135969.	8.0	29
20	Neural network soil moisture model for irrigation scheduling. <i>Computers and Electronics in Agriculture</i> , 2021, 180, 105801.	7.7	29
21	RZWQM2 simulated management practices to mitigate climate change impacts on nitrogen losses and corn production. <i>Environmental Modelling and Software</i> , 2016, 84, 99-111.	4.5	28
22	Can nitrate contaminated groundwater be remediated by optimizing flood irrigation rate with high nitrate water in a desert oasis using the WHCNS model?. <i>Journal of Environmental Management</i> , 2016, 181, 16-25.	7.8	28
23	Simulating Nitrate-Nitrogen Concentration from a Subsurface Drainage System in Response to Nitrogen Application Rates Using RZWQM2. <i>Journal of Environmental Quality</i> , 2012, 41, 289-295.	2.0	27
24	Effects of permanent ground cover on soil moisture in jujube orchards under sloping ground: A simulation study. <i>Agricultural Water Management</i> , 2014, 138, 68-77.	5.6	27
25	A Model-Based Real-Time Decision Support System for Irrigation Scheduling to Improve Water Productivity. <i>Agronomy</i> , 2019, 9, 686.	3.0	26
26	P immobilizing materials for lake internal loading control: A review towards future developments. <i>Critical Reviews in Environmental Science and Technology</i> , 2019, 49, 518-552.	12.8	25
27	Simulating Dryland Water Availability and Spring Wheat Production in the Northern Great Plains. <i>Agronomy Journal</i> , 2013, 105, 37-50.	1.8	23
28	Optimizing Irrigation Rates for Cotton Production in an Extremely Arid Area Using RZWQM2-Simulated Water Stress. <i>Transactions of the ASABE</i> , 2017, 60, 2041-2052.	1.1	23
29	Modeling phosphorus losses from soils amended with cattle manures and chemical fertilizers. <i>Science of the Total Environment</i> , 2018, 639, 580-587.	8.0	23
30	Modeling hourly subsurface drainage using steady-state and transient methods. <i>Journal of Hydrology</i> , 2017, 550, 516-526.	5.4	20
31	Calibration of an agricultural-hydrological model (RZWQM2) using surrogate global optimization. <i>Journal of Hydrology</i> , 2017, 544, 456-466.	5.4	20
32	Assessing the Impacts of Climate Variability on Fertilizer Management Decisions for Reducing Nitrogen Losses from Corn Silage Production. <i>Journal of Environmental Quality</i> , 2019, 48, 1006-1015.	2.0	20
33	Assessing agricultural drought at a regional scale using LULC classification, SPI, and vegetation indices: case study in a rainfed agro-ecosystem in Central Mexico. <i>Geomatics, Natural Hazards and Risk</i> , 2016, 7, 1460-1488.	4.3	19
34	Towards an improved methodology for modelling climate change impacts on cropping systems in cool climates. <i>Science of the Total Environment</i> , 2020, 728, 138845.	8.0	19
35	Simulating crop yield, surface runoff, tile drainage and phosphorus loss in a clay loam soil of the Lake Erie region using EPIC. <i>Agricultural Water Management</i> , 2018, 204, 212-221.	5.6	18
36	A general non-rectangular hyperbola equation for photosynthetic light response curve of rice at various leaf ages. <i>Scientific Reports</i> , 2019, 9, 9909.	3.3	18

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37	Development and evaluation of a phosphorus (P) module in RZWQM2 for phosphorus management in agricultural fields. <i>Environmental Modelling and Software</i> , 2019, 113, 48-58.	4.5	18
38	Comparing hydrological frameworks for simulating crop biomass, water and nitrogen dynamics in a tile drained soybean-corn system: Cascade vs computational approach. <i>Journal of Hydrology X</i> , 2019, 2, 100015.	1.6	18
39	Effect of biochar on fate and transport of manure-borne estrogens in sandy soil. <i>Journal of Environmental Sciences</i> , 2018, 73, 162-176.	6.1	17
40	Simulating phosphorus loss to subsurface tile drainage flow: a review. <i>Environmental Reviews</i> , 2017, 25, 150-162.	4.5	15
41	Modeling of phosphorus loss from field to watershed: A review. <i>Journal of Environmental Quality</i> , 2020, 49, 1203-1224.	2.0	15
42	Evaluating equilibrium and non-equilibrium transport of ammonium in a loam soil column. <i>Hydrological Processes</i> , 2018, 32, 80-92.	2.6	13
43	Modeling and Mitigating Phosphorus Losses from a Tile-Drained and Manured Field Using RZWQM2. <i>Journal of Environmental Quality</i> , 2019, 48, 995-1005.	2.0	13
44	Nitrification inhibitor DMPP offsets the increase in N ₂ O emission induced by soil salinity. <i>Biology and Fertility of Soils</i> , 2020, 56, 1211-1217.	4.3	13
45	Coordinate descent based agricultural model calibration and optimized input management. <i>Computers and Electronics in Agriculture</i> , 2020, 172, 105353.	7.7	13
46	Development and evaluation of the carbon-nitrogen cycle module for the GPFARM-Range model. <i>Computers and Electronics in Agriculture</i> , 2012, 83, 1-10.	7.7	12
47	Response of N ₂ O emissions to biochar amendment in a cultivated sandy loam soil during freeze-thaw cycles. <i>Scientific Reports</i> , 2016, 6, 35411.	3.3	12
48	Comparison of RZWQM2 and DNDC Models to Simulate Greenhouse Gas Emissions under Combined Inorganic/Organic Fertilization in a Subsurface-Drained Field. <i>Transactions of the ASABE</i> , 2020, 63, 771-787.	1.1	12
49	Lime application to reduce phosphorus release in different textured intact and small repacked soil columns. <i>Journal of Soils and Sediments</i> , 2020, 20, 2053-2066.	3.0	12
50	Modeling impacts of climate change on crop yield and phosphorus loss in a subsurface drained field of Lake Erie region, Canada. <i>Agricultural Systems</i> , 2021, 190, 103110.	6.1	12
51	Simulating hydrologic cycle and crop production in a subsurface drained and sub-irrigated field in Southern Quebec using RZWQM2. <i>Computers and Electronics in Agriculture</i> , 2018, 146, 31-42.	7.7	11
52	Effects of residue removal and tillage on greenhouse gas emissions in continuous corn systems as simulated with RZWQM2. <i>Journal of Environmental Management</i> , 2021, 285, 112097.	7.8	11
53	Optimizing Irrigation Strategies to Improve Water Use Efficiency of Cotton in Northwest China Using RZWQM2. <i>Agriculture (Switzerland)</i> , 2022, 12, 383.	3.1	11
54	Phosphorus Loss Mitigation in Leachate and Surface Runoff from Clay Loam Soil Using Four Lime-Based Materials. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1.	2.4	10

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55	An economic analysis software for evaluating best management practices to mitigate greenhouse gas emissions from cropland. <i>Agricultural Systems</i> , 2021, 186, 102950.	6.1	10
56	Comparing Simulated Nitrate-Nitrogen Concentration In Subsurface Drainage Using Drainmod-N II and RZWQM2. <i>Irrigation and Drainage</i> , 2017, 66, 238-251.	1.7	9
57	Modeling climate change impact on streamflow as affected by snowmelt in Nicolet River Watershed, Quebec. <i>Computers and Electronics in Agriculture</i> , 2020, 178, 105756.	7.7	9
58	Soil Test Phosphorus and Phosphorus Availability of Swine Manures with Long-Term Application. <i>Agronomy Journal</i> , 2018, 110, 1943-1950.	1.8	8
59	Drainage N Loads Under Climate Change with Winter Rye Cover Crop in a Northern Mississippi River Basin Corn-Soybean Rotation. <i>Sustainability</i> , 2020, 12, 7630.	3.2	8
60	Impact of Silver Nanoparticles in Wastewater on Heavy Metal Transport in Soil and Uptake by Radish Plants. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1.	2.4	8
61	Differential physio-biochemical and yield responses of <i>Camelina sativa</i> L. under varying irrigation water regimes in semi-arid climatic conditions. <i>PLoS ONE</i> , 2020, 15, e0242441.	2.5	8
62	Iron (Fe) metal-organic frameworks: A new class of superior and sustainable phosphate adsorbents. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106849.	6.7	8
63	Managing Fertigation Frequency and Level to Mitigate N ₂ O and CO ₂ Emissions and NH ₃ Volatilization from Subsurface Drip-Fertigated Field in a Greenhouse. <i>Agronomy</i> , 2022, 12, 1414.	3.0	8
64	Modeling Phosphorus Losses through Surface Runoff and Subsurface Drainage Using ICECREAM. <i>Journal of Environmental Quality</i> , 2018, 47, 203-211.	2.0	7
65	Lime Amendments to Enhance Soil Phosphorus Adsorption Capacity and to Reduce Phosphate Desorption. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1.	2.4	7
66	Soil carbon and nitrous oxide dynamics in corn (<i>Zea mays</i> L.) production under different nitrogen, tillage and residue management practices. <i>Field Crops Research</i> , 2022, 277, 108421.	5.1	7
67	Simulating Carbon Dioxide Effects on Range Plant Growth and Water Use with GPFARM-Range Model. <i>Rangeland Ecology and Management</i> , 2015, 68, 423-431.	2.3	5
68	Effect of biochar on the fate and transport of manure-borne progesterone in soil. <i>Ecological Engineering</i> , 2016, 97, 231-241.	3.6	5
69	Soil degassing during watering: An overlooked soil N ₂ O emission process. <i>Environmental Pollution</i> , 2018, 242, 257-263.	7.5	5
70	Yield Comparisons between Cotton Variety Xin Nong Mian 1 and Its Transgenic ScALDH21 Lines under Different Water Deficiencies in a Desert-Oasis Ecotone. <i>Agronomy</i> , 2021, 11, 1019.	3.0	5
71	Evaluating the Neural Network Ensemble Method in Predicting Soil Moisture in Agricultural Fields. <i>Agronomy</i> , 2021, 11, 1521.	3.0	5
72	Automatic variable rate fertilisation system for improved fertilisation uniformity in paddy fields. <i>Biosystems Engineering</i> , 2022, 219, 56-67.	4.3	5

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73	Changes in Canada's Phosphorus Cycle 1961–2018: Surpluses and Deficits. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	4.9	5
74	Enhanced N ₂ O Production Induced by Soil Salinity at a Specific Range. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 5169.	2.6	4
75	Evaluating RZ-SHAW model for simulating surface runoff and subsurface tile drainage under regular and controlled drainage with subirrigation in southern Ontario. <i>Agricultural Water Management</i> , 2020, 237, 106179.	5.6	4
76	Responses of cotton photosynthesis and growth to a new irrigation control method under deficit irrigation. <i>Field Crops Research</i> , 2022, 275, 108373.	5.1	4
77	RZWQM2 Simulated Drip Fertigation Management to Improve Water and Nitrogen Use Efficiency of Maize in a Solar Greenhouse. <i>Agriculture (Switzerland)</i> , 2022, 12, 672.	3.1	4
78	Modeling tillage and manure application on soil phosphorous loss under climate change. <i>Nutrient Cycling in Agroecosystems</i> , 2022, 122, 219-239.	2.2	3
79	Long-term trends of climate change and its impact on crop growing season on Montreal Island. <i>Journal of Water and Climate Change</i> , 2017, 8, 78-88.	2.9	2
80	Effect of meteorological data quality control and data adjustment on the reference evapotranspiration: a case study in Jafariye, Iran. <i>Theoretical and Applied Climatology</i> , 2020, 141, 331-342.	2.8	2
81	Agricultural system modeling: current achievements, innovations, and future roadmap. <i>Arabian Journal of Geosciences</i> , 2022, 15, 1.	1.3	2
82	Poverty reduction through water interventions: A review of approaches in sub-Saharan Africa and South Asia. <i>Irrigation and Drainage</i> , 2022, 71, 539-558.	1.7	2
83	Evaluating the performance of DRAINMOD using soil hydraulic parameters derived by various methods. <i>Agricultural Water Management</i> , 2015, 155, 48-52.	5.6	1
84	<i>Water stress based deficit irrigation scheduling using RZWQM2 model for maize in Colorado</i>. , 2017, , .		1
85	Comment on "Oxygen Regulates Nitrous Oxide Production Directly in Agricultural Soils". <i>Environmental Science & Technology</i> , 2020, 54, 2558-2559.	10.0	1
86	<i>Sensor data driven parameter estimation for Agricultural Model using Coordinate Descent </i>. , 2018, , .		0
87	Modelling Water Quality in Subsurface Drained Cropland Using the Root Zone Water Quality Model (RZWQM). <i>Advances in Agricultural Systems Modeling</i> , 2019, , 237-269.	0.3	0
88	<i>Towards improving the DNDC model for simulating soil hydrology and tile drainage</i>. , 2019, , .		0
89	<i>Economic analysis software for evaluating best management practices to mitigate greenhouse gas emissions from cropland</i>. , 2020, , .		0