

Liwang

List of Publications by Year in descending order

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64
papers

3,334
citations

94433

37
h-index

155660

55
g-index

64
all docs

64
docs citations

64
times ranked

2433
citing authors

#	ARTICLE	IF	CITATIONS
1	Water resources and water use efficiency in the North China Plain: Current status and agronomic management options. <i>Agricultural Water Management</i> , 2010, 97, 1102-1116.	5.6	194
2	Irrigation strategies to improve the water use efficiency of wheatâ€“maize double cropping systems in North China Plain. <i>Agricultural Water Management</i> , 2010, 97, 1165-1174.	5.6	144
3	Evaluation of the RZWQM-CERES-Maize hybrid model for maize production. <i>Agricultural Systems</i> , 2006, 87, 274-295.	6.1	119
4	Modeling the impacts of climate change on irrigated corn production in the Central Great Plains. <i>Agricultural Water Management</i> , 2012, 110, 94-108.	5.6	94
5	Hysteretic Characteristics of Atrazine Adsorption-Desorption by a Sharkey Soil. <i>Weed Science</i> , 1993, 41, 627-633.	1.5	88
6	Modeling the Transport and Retention of Cadmium in Soils: Multireaction and Multicomponent Approaches. <i>Soil Science Society of America Journal</i> , 1992, 56, 1004-1015.	2.2	85
7	Calibrating RZWQM2 model for maize responses to deficit irrigation. <i>Agricultural Water Management</i> , 2012, 103, 140-149.	5.6	82
8	Evaluating Nitrogen and Water Management in a Double-Cropping System Using RZWQM. <i>Vadose Zone Journal</i> , 2006, 5, 493-505.	2.2	81
9	Modeling a wheatâ€“maize double cropping system in China using two plant growth modules in RZWQM. <i>Agricultural Systems</i> , 2006, 89, 457-477.	6.1	80
10	RZWQM simulation of long-term crop production, water and nitrogen balances in Northeast Iowa. <i>Geoderma</i> , 2007, 140, 247-259.	5.1	78
11	Effects of Estimating Soil Hydraulic Properties and Root Growth Factor on Soil Water Balance and Crop Production. <i>Agronomy Journal</i> , 2009, 101, 572-583.	1.8	77
12	Modeling Nitrogen and Water Management Effects in a Wheatâ€“Maize Doubleâ€“Cropping System. <i>Journal of Environmental Quality</i> , 2008, 37, 2232-2242.	2.0	74
13	Climate change impacts on dryland cropping systems in the Central Great Plains, USA. <i>Climatic Change</i> , 2012, 111, 445-472.	3.6	72
14	Development and Evaluation of the RZWQM-CROPGRO Hybrid Model for Soybean Production. <i>Agronomy Journal</i> , 2005, 97, 1172-1182.	1.8	69
15	Manure Management in an Irrigated Silage Corn Field: Experiment and Modeling. <i>Soil Science Society of America Journal</i> , 1998, 62, 1006-1017.	2.2	64
16	RZWQM simulated effects of crop rotation, tillage, and controlled drainage on crop yield and nitrate-N loss in drain flow. <i>Geoderma</i> , 2007, 140, 260-271.	5.1	64
17	Using RZWQM to simulate the fate of nitrogen in field soilâ€“crop environment in the Mediterranean region. <i>Agricultural Water Management</i> , 2007, 90, 121-136.	5.6	63
18	Simulating management effects on crop production, tile drainage, and water quality using RZWQMâ€“DSSAT. <i>Geoderma</i> , 2007, 140, 297-309.	5.1	63

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19	Trans-Disciplinary Soil Physics Research Critical to Synthesis and Modeling of Agricultural Systems. Soil Science Society of America Journal, 2006, 70, 311-326.	2.2	62
20	Tillage effect on macroporosity and herbicide transport in percolate. Geoderma, 2003, 116, 191-215.	5.1	61
21	Simulation of crop evapotranspiration and crop coefficients with data in weighing lysimeters. Agricultural Water Management, 2016, 177, 274-283.	5.6	61
22	Development of an irrigation scheduling software based on model predicted crop water stress. Computers and Electronics in Agriculture, 2017, 143, 208-221.	7.7	58
23	Evaluating and predicting agricultural management effects under tile drainage using modified APSIM. Geoderma, 2007, 140, 310-322.	5.1	54
24	Simulation of free air CO ₂ enriched wheat growth and interactions with water, nitrogen, and temperature. Agricultural and Forest Meteorology, 2010, 150, 1331-1346.	4.8	50
25	Evaluating the Crop Water Stress Index and its correlation with latent heat and CO ₂ fluxes over winter wheat and maize in the North China plain. Agricultural Water Management, 2010, 97, 1146-1155.	5.6	49
26	Simulating impacts of climate change on cotton yield and water requirement using RZWQM2. Agricultural Water Management, 2019, 222, 231-241.	5.6	49
27	Modeling the effects of controlled drainage, N rate and weather on nitrate loss to subsurface drainage. Agricultural Water Management, 2012, 103, 150-161.	5.6	47
28	Predicting atrazine adsorption-desorption in soils: A modified second-order kinetic model. Water Resources Research, 1994, 30, 447-456.	4.2	46
29	Predicting Solute Transport in Soils Second-Order Two-Site Models. Soil Science Society of America Journal, 1999, 63, 768-777.	2.2	46
30	Simulated N management effects on corn yield and tile-drainage nitrate loss. Geoderma, 2007, 140, 272-283.	5.1	46
31	Predicting Unsaturated Zone Nitrogen Mass Balances in Agricultural Settings of the United States. Journal of Environmental Quality, 2010, 39, 1051-1065.	2.0	45
32	Modeling responses of dryland spring triticale, proso millet and foxtail millet to initial soil water in the High Plains. Field Crops Research, 2009, 113, 48-63.	5.1	44
33	Enhancing the Water Stress Factors for Simulation of Corn in RZWQM2. Agronomy Journal, 2014, 106, 81-94.	1.8	44
34	Sensitivity of tile drainage flow and crop yield on measured and calibrated soil hydraulic properties. Geoderma, 2007, 140, 284-296.	5.1	42
35	N loss to drain flow and N ₂ O emissions from a corn-soybean rotation with winter rye. Science of the Total Environment, 2018, 618, 982-997.	8.0	41
36	RZWQM SIMULATIONS OF WATER AND NITRATE MOVEMENT IN A MANURED TALL FESCUE FIELD. Soil Science, 1998, 163, 259-270.	0.9	41

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37	Soil Test N Recommendations Augmented with PEST-Optimized RZWQM Simulations. <i>Journal of Environmental Quality</i> , 2010, 39, 1711-1723.	2.0	39
38	Simulating Alternative Dryland Rotational Cropping Systems in the Central Great Plains with RZWQM2. <i>Agronomy Journal</i> , 2010, 102, 1521-1534.	1.8	39
39	Modeling yield and biomass responses of maize cultivars to climate change under full and deficit irrigation. <i>Agricultural Water Management</i> , 2017, 180, 88-98.	5.6	39
40	Decomposition of Surface Crop Residues in Long-Term Studies of Dryland Agroecosystems. <i>Agronomy Journal</i> , 1999, 91, 401-409.	1.8	38
41	Quantifying crop water stress factors from soil water measurements in a limited irrigation experiment. <i>Agricultural Systems</i> , 2015, 137, 191-205.	6.1	38
42	Evaluating four nitrous oxide emission algorithms in response to N rate on an irrigated corn field. <i>Environmental Modelling and Software</i> , 2015, 72, 56-70.	4.5	38
43	Climate Change Impacts on Yields and Soil Carbon in Row Crop Dryland Agriculture. <i>Journal of Environmental Quality</i> , 2018, 47, 684-694.	2.0	38
44	Use of limited soil property data and modeling to estimate root zone soil water content. <i>Journal of Hydrology</i> , 2003, 272, 131-147.	5.4	37
45	Modeling evapotranspiration and energy balance in a wheat-maize cropping system using the revised RZ-SHAW model. <i>Agricultural and Forest Meteorology</i> , 2014, 194, 218-229.	4.8	35
46	Developing and normalizing average corn crop water production functions across years and locations using a system model. <i>Agricultural Water Management</i> , 2015, 157, 65-77.	5.6	35
47	Tortuosity, Mean Residence Time, and Deformation of Tritium Breakthroughs from Soil Columns. <i>Soil Science Society of America Journal</i> , 1994, 58, 1076-1085.	2.2	34
48	Optimizing Soil Hydraulic Parameters in RZWQM2 under Fallow Conditions. <i>Soil Science Society of America Journal</i> , 2010, 74, 1897-1913.	2.2	34
49	Effective Soil Properties of Heterogeneous Areas For Modeling Infiltration and Redistribution. <i>Soil Science Society of America Journal</i> , 2010, 74, 1469-1482.	2.2	34
50	Cover crop effects on nitrogen load in tile drainage from Walnut Creek Iowa using root zone water quality (RZWQ) model. <i>Agricultural Water Management</i> , 2011, 98, 1622-1628.	5.6	32
51	Winter rye as a cover crop reduces nitrate loss to subsurface drainage as simulated by HERMES. <i>Agricultural Water Management</i> , 2017, 184, 156-169.	5.6	31
52	Evaluation of Nonequilibrium Models for Predicting Atrazine Transport in Soils. <i>Soil Science Society of America Journal</i> , 1997, 61, 1299-1307.	2.2	30
53	Quantifying Climate and Management Effects on Regional Crop Yield and Nitrogen Leaching in the North China Plain. <i>Journal of Environmental Quality</i> , 2013, 42, 1466-1479.	2.0	30
54	Quasi-biennial corn yield cycles in Iowa. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 1087-1094.	4.8	29

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55	Empirical analysis and prediction of nitrate loading and crop yield for corn-soybean rotations. <i>Geoderma</i> , 2007, 140, 223-234.	5.1	28
56	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
57	Simulated Effects of Nitrogen Management and Soil Microbes on Soil Nitrogen Balance and Crop Production. <i>Soil Science Society of America Journal</i> , 2008, 72, 1594-1603.	2.2	26
58	Sustainability and environmental assessment of fertigation in an intensive olive grove under Mediterranean conditions. <i>Agricultural Water Management</i> , 2014, 146, 346-360.	5.6	26
59	TRANSPORT OF A NONREACTIVE SOLUTE IN SOILS. <i>Soil Science</i> , 1995, 159, 224-234.	0.9	25
60	Transport of Reactive Solutes in Soils: A Modified Two-Region Approach. <i>Soil Science Society of America Journal</i> , 1995, 59, 75-82.	2.2	25
61	Predicting the transport of atrazine in soils: Second-order and multireaction approaches. <i>Water Resources Research</i> , 1994, 30, 3489-3498.	4.2	23
62	Simulating Dryland Water Availability and Spring Wheat Production in the Northern Great Plains. <i>Agronomy Journal</i> , 2013, 105, 37-50.	1.8	23
63	Effectiveness of RZWQM for Simulating Alternative Great Plains Cropping Systems. <i>Agronomy Journal</i> , 2005, 97, 1183-1193.	1.8	16
64	Modeling maize production under growth stage-based deficit irrigation management with RZWQM2. <i>Agricultural Water Management</i> , 2021, 248, 106767.	5.6	8