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	Modeling maize production under growth stage-based deficit irrigation management with RZWQM2. Agricultural Water Management, 2021, 248, 106767.	5.6	8
2	Simulating impacts of climate change on cotton yield and water requirement using RZWQM2. Agricultural Water Management, 2019, 222, 231-241.	5.6	49
3	N loss to drain flow and N2O emissions from a corn-soybean rotation with winter rye. Science of the Total Environment, 2018, 618, 982-997.	8.0	41
4	Climate Change Impacts on Yields and Soil Carbon in Row Crop Dryland Agriculture. Journal of Environmental Quality, 2018, 47, 684-694.	2.0	38
5	Winter rye as a cover crop reduces nitrate loss to subsurface drainage as simulated by HERMES. Agricultural Water Management, 2017, 184, 156-169.	5.6	31
6	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
7	Modeling yield and biomass responses of maize cultivars to climate change under full and deficit irrigation. Agricultural Water Management, 2017, 180, 88-98.	5.6	39
8	Simulation of crop evapotranspiration and crop coefficients with data in weighing lysimeters. Agricultural Water Management, 2016, 177, 274-283.	5.6	61
9	Quantifying crop water stress factors from soil water measurements in a limited irrigation experiment. Agricultural Systems, 2015, 137, 191-205.	6.1	38
10	Evaluating four nitrous oxide emission algorithms in response to N rate on an irrigated corn field. Environmental Modelling and Software, 2015, 72, 56-70.	4.5	38
11	Developing and normalizing average corn crop water production functions across years and locations using a system model. Agricultural Water Management, 2015, 157, 65-77.	5.6	35
12	Sustainability and environmental assessment of fertigation in an intensive olive grove under Mediterranean conditions. Agricultural Water Management, 2014, 146, 346-360.	5.6	26
13	Modeling evapotranspiration and energy balance in a wheatâ€“maize cropping system using the revised RZ-SHAW model. Agricultural and Forest Meteorology, 2014, 194, 218-229.	4.8	35
14	Enhancing the Water Stress Factors for Simulation of Corn in RZWQM2. Agronomy Journal, 2014, 106, 81-94.	1.8	44
15	Quantifying Climate and Management Effects on Regional Crop Yield and Nitrogen Leaching in the North China Plain. Journal of Environmental Quality, 2013, 42, 1466-1479.	2.0	30
16	Simulating Dryland Water Availability and Spring Wheat Production in the Northern Great Plains. Agronomy Journal, 2013, 105, 37-50.	1.8	23
17	Calibrating RZWQM2 model for maize responses to deficit irrigation. Agricultural Water Management, 2012, 103, 140-149.	5.6	82
18	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

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19	Modeling the impacts of climate change on irrigated corn production in the Central Great Plains. Agricultural Water Management, 2012, 110, 94-108.	5.6	94
20	Simulating Nitrate-Nitrogen Concentration from a Subsurface Drainage System in Response to Nitrogen Application Rates Using RZWQM2. Journal of Environmental Quality, 2012, 41, 289-295.	2.0	27
21	Climate change impacts on dryland cropping systems in the Central Great Plains, USA. Climatic Change, 2012, 111, 445-472.	3.6	72
22	Cover crop effects on nitrogen load in tile drainage from Walnut Creek Iowa using root zone water quality (RZWQ) model. Agricultural Water Management, 2011, 98, 1622-1628.	5.6	32
23	Predicting Unsaturated Zone Nitrogen Mass Balances in Agricultural Settings of the United States. Journal of Environmental Quality, 2010, 39, 1051-1065.	2.0	45
24	Soilâ€Test N Recommendations Augmented with PESTâ€Optimized RZWQM Simulations. Journal of Environmental Quality, 2010, 39, 1711-1723.	2.0	39
25	Simulating Alternative Dryland Rotational Cropping Systems in the Central Great Plains with RZWQM2. Agronomy Journal, 2010, 102, 1521-1534.	1.8	39
26	Optimizing Soil Hydraulic Parameters in RZWQM2 under Fallow Conditions. Soil Science Society of America Journal, 2010, 74, 1897-1913.	2.2	34
27	Effective Soil Properties of Heterogeneous Areas For Modeling Infiltration and Redistribution. Soil Science Society of America Journal, 2010, 74, 1469-1482.	2.2	34
28	Simulation of free air CO2 enriched wheat growth and interactions with water, nitrogen, and temperature. Agricultural and Forest Meteorology, 2010, 150, 1331-1346.	4.8	50
29	Evaluating the Crop Water Stress Index and its correlation with latent heat and CO2 fluxes over winter wheat and maize in the North China plain. Agricultural Water Management, 2010, 97, 1146-1155.	5.6	49
30	Irrigation strategies to improve the water use efficiency of wheatâ€“maize double cropping systems in North China Plain. Agricultural Water Management, 2010, 97, 1165-1174.	5.6	144
31	Water resources and water use efficiency in the North China Plain: Current status and agronomic management options. Agricultural Water Management, 2010, 97, 1102-1116.	5.6	194
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	Quasi-biennial corn yield cycles in Iowa. Agricultural and Forest Meteorology, 2009, 149, 1087-1094.	4.8	29
34	Effects of Estimating Soil Hydraulic Properties and Root Growth Factor on Soil Water Balance and Crop Production. Agronomy Journal, 2009, 101, 572-583.	1.8	77
35	Modeling Nitrogen and Water Management Effects in a Wheatâ€Maize Doubleâ€Cropping System. Journal of Environmental Quality, 2008, 37, 2232-2242.	2.0	74
36	Simulated Effects of Nitrogen Management and Soil Microbes on Soil Nitrogen Balance and Crop Production. Soil Science Society of America Journal, 2008, 72, 1594-1603.	2.2	26

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37	Using RZWQM to simulate the fate of nitrogen in field soilâ€“crop environment in the Mediterranean region. Agricultural Water Management, 2007, 90, 121-136.	5.6	63
38	Empirical analysis and prediction of nitrate loading and crop yield for cornâ€“soybean rotations. Geoderma, 2007, 140, 223-234.	5.1	28
39	RZWQM simulation of long-term crop production, water and nitrogen balances in Northeast Iowa. Geoderma, 2007, 140, 247-259.	5.1	78
40	RZWQM simulated effects of crop rotation, tillage, and controlled drainage on crop yield and nitrate-N loss in drain flow. Geoderma, 2007, 140, 260-271.	5.1	64
41	Simulated N management effects on corn yield and tile-drainage nitrate loss. Geoderma, 2007, 140, 272-283.	5.1	46
42	Sensitivity of tile drainage flow and crop yield on measured and calibrated soil hydraulic properties. Geoderma, 2007, 140, 284-296.	5.1	42
43	Simulating management effects on crop production, tile drainage, and water quality using RZWQMâ€“DSSAT. Geoderma, 2007, 140, 297-309.	5.1	63
44	Evaluating and predicting agricultural management effects under tile drainage using modified APSIM. Geoderma, 2007, 140, 310-322.	5.1	54
45	Evaluation of the RZWQM-CERES-Maize hybrid model for maize production. Agricultural Systems, 2006, 87, 274-295.	6.1	119
46	Modeling a wheatâ€“maize double cropping system in China using two plant growth modules in RZWQM. Agricultural Systems, 2006, 89, 457-477.	6.1	80
47	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
48	Evaluating Nitrogen and Water Management in a Double-Cropping System Using RZWQM. Vadose Zone Journal, 2006, 5, 493-505.	2.2	81
49	Development and Evaluation of the RZWQM-CROPGRO Hybrid Model for Soybean Production. Agronomy Journal, 2005, 97, 1172-1182.	1.8	69
50	Effectiveness of RZWQM for Simulating Alternative Great Plains Cropping Systems. Agronomy Journal, 2005, 97, 1183-1193.	1.8	16
51	Use of limited soil property data and modeling to estimate root zone soil water content. Journal of Hydrology, 2003, 272, 131-147.	5.4	37
52	Tillage effect on macroporosity and herbicide transport in percolate. Geoderma, 2003, 116, 191-215.	5.1	61
53	Decomposition of Surface Crop Residues in Longâ€Term Studies of Dryland Agroecosystems. Agronomy Journal, 1999, 91, 401-409.	1.8	38
54	Predicting Solute Transport in Soils Secondâ€Order Twoâ€Site Models. Soil Science Society of America Journal, 1999, 63, 768-777.	2.2	46

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55	Manure Management in an Irrigated Silage Corn Field: Experiment and Modeling. Soil Science Society of America Journal, 1998, 62, 1006-1017.	2.2	64
56	RZWQM SIMULATIONS OF WATER AND NITRATE MOVEMENT IN A MANURED TALL FESCUE FIELD. Soil Science, 1998, 163, 259-270.	0.9	41
57	Evaluation of Nonequilibrium Models for Predicting Atrazine Transport in Soils. Soil Science Society of America Journal, 1997, 61, 1299-1307.	2.2	30
58	TRANSPORT OF A NONREACTIVE SOLUTE IN SOILS. Soil Science, 1995, 159, 224-234.	0.9	25
59	Transport of Reactive Solutes in Soils: A Modified Two-Region Approach. Soil Science Society of America Journal, 1995, 59, 75-82.	2.2	25
60	Predicting atrazine adsorption-desorption in soils: A modified second-order kinetic model. Water Resources Research, 1994, 30, 447-456.	4.2	46
61	Predicting the transport of atrazine in soils: Second-order and multireaction approaches. Water Resources Research, 1994, 30, 3489-3498.	4.2	23
62	Tortuosity, Mean Residence Time, and Deformation of Tritium Breakthroughs from Soil Columns. Soil Science Society of America Journal, 1994, 58, 1076-1085.	2.2	34
63	Hysteretic Characteristics of Atrazine Adsorption-Desorption by a Sharkey Soil. Weed Science, 1993, 41, 627-633.	1.5	88
64	Modeling the Transport and Retention of Cadmium in Soils: Multireaction and Multicomponent Approaches. Soil Science Society of America Journal, 1992, 56, 1004-1015.	2.2	85