

Lianhai Wu

List of Publications by Year in descending order

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67
papers

2,488
citations

201674

27
h-index

214800

47
g-index

67
all docs

67
docs citations

67
times ranked

3508
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling root-soil interactions using three-dimensional models of root growth, architecture and function. <i>Plant and Soil</i> , 2013, 372, 93-124.	3.7	238
2	Higher yields and lower methane emissions with new rice cultivars. <i>Global Change Biology</i> , 2017, 23, 4728-4738.	9.5	127
3	Crop rotation modelling—A European model intercomparison. <i>European Journal of Agronomy</i> , 2015, 70, 98-111.	4.1	125
4	Quantifying the spatio-temporal drivers of planned vegetation restoration on ecosystem services at a regional scale. <i>Science of the Total Environment</i> , 2019, 650, 1029-1040.	8.0	115
5	Spatially explicit simulation of land use/land cover changes: Current coverage and future prospects. <i>Earth-Science Reviews</i> , 2019, 190, 398-415.	9.1	108
6	Assessing uncertainties in crop and pasture ensemble model simulations of productivity and N ₂ O emissions. <i>Global Change Biology</i> , 2018, 24, e603-e616.	9.5	104
7	Advances in the understanding of nutrient dynamics and management in UK agriculture. <i>Science of the Total Environment</i> , 2012, 434, 39-50.	8.0	101
8	Effects of enhancing soil organic carbon sequestration in the topsoil by fertilization on crop productivity and stability: Evidence from long-term experiments with wheat-maize cropping systems in China. <i>Science of the Total Environment</i> , 2016, 562, 247-259.	8.0	85
9	Changes in soil microbial biomass with manure application in cropping systems: A meta-analysis. <i>Soil and Tillage Research</i> , 2019, 194, 104291.	5.6	85
10	Mineral N stock and nitrate accumulation in the 50 to 200 m profile on the Loess Plateau. <i>Science of the Total Environment</i> , 2018, 633, 999-1006.	8.0	67
11	Multi-model simulation of soil temperature, soil water content and biomass in Euro-Mediterranean grasslands: Uncertainties and ensemble performance. <i>European Journal of Agronomy</i> , 2017, 88, 22-40.	4.1	58
12	Impact of two centuries of intensive agriculture on soil carbon, nitrogen and phosphorus cycling in the UK. <i>Science of the Total Environment</i> , 2018, 634, 1486-1504.	8.0	54
13	Key challenges and priorities for modelling European grasslands under climate change. <i>Science of the Total Environment</i> , 2016, 566-567, 851-864.	8.0	52
14	Modelling and predicting crop yield, soil carbon and nitrogen stocks under climate change scenarios with fertiliser management in the North China Plain. <i>Geoderma</i> , 2016, 265, 176-186.	5.1	50
15	Ensemble modelling of carbon fluxes in grasslands and croplands. <i>Field Crops Research</i> , 2020, 252, 107791.	5.1	50
16	Simulation of wheat growth using the 3D root architecture model SPACSYS: Validation and sensitivity analysis. <i>European Journal of Agronomy</i> , 2011, 34, 181-189.	4.1	48
17	Carbon Sequestration by Fruit Trees - Chinese Apple Orchards as an Example. <i>PLoS ONE</i> , 2012, 7, e38883.	2.5	48
18	Gauging policy-driven large-scale vegetation restoration programmes under a changing environment: Their effectiveness and socio-economic relationships. <i>Science of the Total Environment</i> , 2017, 607-608, 911-919.	8.0	48

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19	Classifying multi-model wheat yield impact response surfaces showing sensitivity to temperature and precipitation change. <i>Agricultural Systems</i> , 2018, 159, 209-224.	6.1	47
20	Response of crop yield and nitrogen use efficiency for wheat-maize cropping system to future climate change in northern China. <i>Agricultural and Forest Meteorology</i> , 2018, 262, 310-321.	4.8	47
21	Performance of process-based models for simulation of grain N in crop rotations across Europe. <i>Agricultural Systems</i> , 2017, 154, 63-77.	6.1	43
22	A synthetic analysis of greenhouse gas emissions from manure amended agricultural soils in China. <i>Scientific Reports</i> , 2017, 7, 8123.	3.3	42
23	Soil aggregate-associated organic carbon dynamics subjected to different types of land use: Evidence from ^{13}C natural abundance. <i>Ecological Engineering</i> , 2018, 122, 295-302.	3.6	40
24	Multi-model uncertainty analysis in predicting grain N for crop rotations in Europe. <i>European Journal of Agronomy</i> , 2017, 84, 152-165.	4.1	35
25	Deep soil water storage varies with vegetation type and rainfall amount in the Loess Plateau of China. <i>Scientific Reports</i> , 2018, 8, 12346.	3.3	33
26	Peri-urbanization may vary with vegetation restoration: A large scale regional analysis. <i>Urban Forestry and Urban Greening</i> , 2018, 29, 77-87.	5.3	31
27	Soil C and N dynamics and hydrological processes in a maize-wheat rotation field subjected to different tillage and straw management practices. <i>Agriculture, Ecosystems and Environment</i> , 2019, 285, 106616.	5.3	31
28	A Modified SCS-CN Method Incorporating Storm Duration and Antecedent Soil Moisture Estimation for Runoff Prediction. <i>Water Resources Management</i> , 2017, 31, 1713-1727.	3.9	29
29	A synthetic analysis of livestock manure substitution effects on organic carbon changes in China's arable topsoil. <i>Catena</i> , 2018, 171, 1-10.	5.0	28
30	Greenhouse gas emissions and stocks of soil carbon and nitrogen from a 20-year fertilised wheat-maize intercropping system: A model approach. <i>Journal of Environmental Management</i> , 2016, 167, 105-114.	7.8	27
31	Soil nutrients of different land-use types and topographic positions in the water-wind erosion crisscross region of China's Loess Plateau. <i>Catena</i> , 2020, 184, 104243.	5.0	27
32	Climate change and N ₂ O emissions from South West England grasslands: A modelling approach. <i>Atmospheric Environment</i> , 2016, 132, 249-257.	4.1	25
33	Tracing the Sources and Fate of NO ₃ ⁻ in the Vadose Zone—Groundwater System of a Thousand-Year-Cultivated Region. <i>Environmental Science & Technology</i> , 2022, 56, 9335-9345.	10.0	25
34	Impact of transition from permanent pasture to new swards on the nitrogen use efficiency, nitrogen and carbon budgets of beef and sheep production. <i>Agriculture, Ecosystems and Environment</i> , 2019, 283, 106572.	5.3	22
35	Optimizing rice plant photosynthate allocation reduces N ₂ O emissions from paddy fields. <i>Scientific Reports</i> , 2016, 6, 29333.	3.3	21
36	Assessment of soil water, carbon and nitrogen cycling in reseeded grassland on the North Wyke Farm Platform using a process-based model. <i>Science of the Total Environment</i> , 2017, 603-604, 27-37.	8.0	21

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37	Modelling field scale spatial variation in water run-off, soil moisture, N ₂ O emissions and herbage biomass of a grazed pasture using the SPACSYS model. <i>Geoderma</i> , 2018, 315, 49-58.	5.1	21
38	Simulating greenhouse gas emissions and stocks of carbon and nitrogen in soil from a long-term no-till system in the North China Plain. <i>Soil and Tillage Research</i> , 2018, 178, 32-40.	5.6	21
39	Prediction of storm-based nutrient loss incorporating the estimated runoff and soil loss at a slope scale on the Loess Plateau. <i>Land Degradation and Development</i> , 2018, 29, 2899-2910.	3.9	21
40	Composition and variation of soil $\delta^{15}\text{N}$ stable isotope in natural ecosystems. <i>Catena</i> , 2019, 183, 104236.	5.0	21
41	A framework for the regional critical zone classification: the case of the Chinese Loess Plateau. <i>National Science Review</i> , 2019, 6, 14-18.	9.5	20
42	Adjustments of leaf traits and whole plant leaf area for balancing water supply and demand in <i>Robinia pseudoacacia</i> under different precipitation conditions on the Loess Plateau. <i>Agricultural and Forest Meteorology</i> , 2019, 279, 107733.	4.8	19
43	Sustainable grassland systems: a modelling perspective based on the N ortho W F P platform. <i>European Journal of Soil Science</i> , 2016, 67, 397-408.	3.9	18
44	Soil compaction effects on litter decomposition in an arable field: Implications for management of crop residues and headlands. <i>Applied Soil Ecology</i> , 2019, 134, 31-37.	4.3	18
45	An evaluation of automated GPD threshold selection methods for hydrological extremes across different scales. <i>Journal of Hydrology</i> , 2020, 585, 124845.	5.4	17
46	A Review of Quantitative Tools for Assessing the Diffuse Pollution Response to Farmer Adaptations and Mitigation Methods Under Climate Change. <i>Advances in Agronomy</i> , 2011, , 1-54.	5.2	16
47	Climate change and environmental impacts on and adaptation strategies for production in wheat-rice rotations in southern China. <i>Agricultural and Forest Meteorology</i> , 2020, 292-293, 108136.	4.8	16
48	Permanent dry soil layer a critical control on soil desiccation on China's Loess Plateau. <i>Scientific Reports</i> , 2019, 9, 3296.	3.3	14
49	Modeling Biological Dinitrogen Fixation of Field Pea with a Process-Based Simulation Model. <i>Agronomy Journal</i> , 2013, 105, 670-678.	1.8	13
50	How shallow and how many points of measurements are sufficient to estimate the deep profile mean soil water content of a hillslope in the Loess Plateau?. <i>Geoderma</i> , 2018, 314, 85-94.	5.1	13
51	When multi-functional landscape meets Critical Zone science: advancing multi-disciplinary research for sustainable human well-being. <i>National Science Review</i> , 2019, 6, 349-358.	9.5	13
52	Modeling crop yield and nitrogen use efficiency in wheat and maize production systems under future climate change. <i>Nutrient Cycling in Agroecosystems</i> , 2019, 115, 117-136.	2.2	12
53	Simulation of Phosphorus Chemistry, Uptake and Utilisation by Winter Wheat. <i>Plants</i> , 2019, 8, 404.	3.5	11
54	Assessment of Nitrogen Uptake and Biological Nitrogen Fixation Responses of Soybean to Nitrogen Fertiliser with SPACSYS. <i>Sustainability</i> , 2020, 12, 5921.	3.2	9

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55	Adjusting for Conditional Bias in Process Model Simulations of Hydrological Extremes: An Experiment Using the North Wyke Farm Platform. <i>Frontiers in Artificial Intelligence</i> , 2020, 3, 565859.	3.4	9
56	Comparisons among four different upscaling strategies for cultivar genetic parameters in rainfed spring wheat phenology simulations with the DSSAT-CERES-Wheat model. <i>Agricultural Water Management</i> , 2021, 258, 107181.	5.6	9
57	A Yield-Related Agricultural Drought Index Reveals Spatio-Temporal Characteristics of Droughts in Southwestern China. <i>Sustainability</i> , 2019, 11, 714.	3.2	8
58	Climate Change Impacts on Crop Yield of Winter Wheat (<i>Triticum aestivum</i>) and Maize (<i>Zea mays</i>) and Soil Organic Carbon Stocks in Northern China. <i>Agriculture (Switzerland)</i> , 2022, 12, 614.	3.1	7
59	Exploring the effects of land management change on productivity, carbon and nutrient balance: Application of an Ensemble Modelling Approach to the upper River Taw observatory, UK. <i>Science of the Total Environment</i> , 2022, 824, 153824.	8.0	5
60	A Sensitivity Analysis of the SPACSYS Model. <i>Agriculture (Switzerland)</i> , 2021, 11, 624.	3.1	4
61	Elucidating the performance of hybrid models for predicting extreme water flow events through variography and wavelet analyses. <i>Journal of Hydrology</i> , 2021, 598, 126442.	5.4	4
62	Future climate change impacts on mulched maize production in an arid irrigation area. <i>Agricultural Water Management</i> , 2022, 266, 107550.	5.6	3
63	Modelling the impact of environmental changes on grassland systems with SPACSYS. <i>Advances in Animal Biosciences</i> , 2015, 6, 37-39.	1.0	2
64	Historic record of pasture soil water and the influence of the North Atlantic Oscillation in south-west England. <i>Hydrology Research</i> , 2017, 48, 277-294.	2.7	2
65	The Forgotten Semantics of Regression Modeling in Geography. <i>Geographical Analysis</i> , 2021, 53, 113-134.	3.5	2
66	A case study on the effects of data temporal resolution on the simulation of water flux extremes using a process-based model at the grassland field scale. <i>Agricultural Water Management</i> , 2021, 255, 107049.	5.6	2
67	Impacts of field margin orientation on populations of soil-dwelling invertebrates in relation to the direction and intensity of field traffic. <i>Soil Use and Management</i> , 0, , .	4.9	1