Wei Wei Xiong

List of Publications by Year
in descending order

42	2,481	186265 28	276875 41
papers	citations	h-index	g-index

46	46	46	2952
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Decreases in global beer supply due to extreme drought and heat. Nature Plants, 2018, 4, 964-973.	9.3	153
2	Chinaâ€™s waterâ€“energy nexus: greenhouse-gas emissions from groundwater use for agriculture. Environmental Research Letters, 2012, 7, 014035.	5.2	152
3	Climate change, water availability and future cereal production in China. Agriculture, Ecosystems and Environment, 2010, 135, 58-69.	5.3	144
4	Adaptation of agriculture to warming in Northeast China. Climatic Change, 2007, 84, 45-58.	3.6	138
5	Pan-European crop modelling with EPIC: Implementation, up-scaling and regional crop yield validation. Agricultural Systems, 2013, 120, 61-75.	6.1	127
6	A cultivated planet in 2010 â€“ Part 2: The global gridded agricultural-production maps. Earth System Science Data, 2020, 12, 3545-3572.	9.9	122
7	Global wheat production potentials and management flexibility under the representative concentration pathways. Global and Planetary Change, 2014, 122, 107-121.	3.5	110
8	Modelling Chinaâ€™s potential maize production at regional scale under climate change. Climatic Change, 2007, 85, 433-451.	3.6	107
9	Climate change impact on China food security in 2050. Agronomy for Sustainable Development, 2013, 33, 363-374.	5.3	107
10	The impacts of climate change on agricultural production systems in China. Climatic Change, 2013, 120, 313-324.	3.6	93
11	Modeling the impact of climate change on soil organic carbon stock in upland soils in the 21st century in China. Agriculture, Ecosystems and Environment, 2011, 141, 23-31.	5.3	90
12	Climate change and critical thresholds in Chinaâ€™s food security. Climatic Change, 2007, 81, 205-221.	3.6	84
13	A crop model cross calibration for use in regional climate impacts studies. Ecological Modelling, 2008, 213, 365-380.	2.5	82
14	African crop yield reductions due to increasingly unbalanced Nitrogen and Phosphorus consumption. Global Change Biology, 2014, 20, 1278-1288.	9.5	67
15	Climate change impact on Mexico wheat production. Agricultural and Forest Meteorology, 2018, 263, 373-387.	4.8	66
16	A calibration procedure to improve global rice yield simulations with EPIC. Ecological Modelling, 2014, 273, 128-139.	2.5	60
17	Impacts of observed growing-season warming trends since 1980 on crop yields in China. Regional Environmental Change, 2014, 14, 7-16.	2.9	57
18	Climate impact and adaptation to heat and drought stress of regional and global wheat production. Environmental Research Letters, 2021, 16, 054070.	5.2	52

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19	Evaluation of CERESâ€Wheat simulation of Wheat Production in China. Agronomy Journal, 2008, 100, 1720-1728.	1.8	51
20	Modelling and predicting crop yield, soil carbon and nitrogen stocks under climate change scenarios with fertiliser management in the North China Plain. Geoderma, 2016, 265, 176-186.	5.1	50
21	Untangling relative contributions of recent climate and CO ₂ trends to national cereal production in China. Environmental Research Letters, 2012, 7, 044014.	5.2	49
22	Assessing vulnerability and adaptive capacity to potential drought for winter-wheat under the RCP 8.5 scenario in the Huang-Huai-Hai Plain. Agriculture, Ecosystems and Environment, 2015, 209, 125-131.	5.3	47
23	Proposing an interdisciplinary and cross-scale framework for global change and food security researches. Agriculture, Ecosystems and Environment, 2012, 156, 57-71.	5.3	45
24	Can climate-smart agriculture reverse the recent slowing of rice yield growth in China?. Agriculture, Ecosystems and Environment, 2014, 196, 125-136.	5.3	44
25	Different uncertainty distribution between high and low latitudes in modelling warming impacts on wheat. Nature Food, 2020, 1, 63-69.	14.0	43
26	Calibrationâ€induced uncertainty of the EPIC model to estimate climate change impact on global maize yield. Journal of Advances in Modeling Earth Systems, 2016, 8, 1358-1375.	3.8	37
27	Increased ranking change in wheat breeding under climate change. Nature Plants, 2021, 7, 1207-1212.	9.3	37
28	Integrated assessment of Chinaâ€™s agricultural vulnerability to climate change: a multi-indicator approach. Climatic Change, 2015, 128, 355-366.	3.6	35
29	TheÂRppC-AvrRppC NLR-effector interaction mediates the resistance to southern corn rust inÂmaize. Molecular Plant, 2022, 15, 904-912.	8.3	31
30	Harnessing translational research in wheat for climate resilience. Journal of Experimental Botany, 2021, 72, 5134-5157.	4.8	28
31	Which policy would work better for improved soil fertility management in sub-Saharan Africa, fertilizer subsidies or carbon credits?. Agricultural Systems, 2012, 110, 162-172.	6.1	25
32	FACEâ€IT: A science gateway for food security research. Concurrency Computation Practice and Experience, 2015, 27, 4423-4436.	2.2	25
33	Rural livelihoods and climate variability in Ningxia, Northwest China. Climatic Change, 2013, 119, 891-904.	3.6	24
34	Multi-scale geospatial agroecosystem modeling: A case study on the influence of soil data resolution on carbon budget estimates. Science of the Total Environment, 2014, 479-480, 138-150.	8.0	21
35	Geographic Variation of Rice Yield Response to Past Climate Change in China. Journal of Integrative Agriculture, 2014, 13, 1586-1598.	3.5	21
36	Contrasting contributions of five factors to wheat yield growth in China by process-based and statistical models. European Journal of Agronomy, 2021, 130, 126370.	4.1	11

#	Article	IF	Citations
37	Comparisons among four different upscaling strategies for cultivar genetic parameters in rainfed spring wheat phenology simulations with the DSSAT-CERES-Wheat model. Agricultural Water Management, 2021, 258, 107181.	5.6	9
38	A consistent calibration across three wheat models to simulate wheat yield and phenology in China. Ecological Modelling, 2020, 430, 109132.	2.5	8
39	The optimization of conservation agriculture practices requires attention to location-specific performance: Evidence from large scale gridded simulations across South Asia. Field Crops Research, 2022, 282, 108508.	5.1	8
40	Better Agronomic Management Increases Climate Resilience of Maize to Drought in Tanzania. Atmosphere, 2020, 11, 982.	2.3	7
41	Case Study 1: ChinaBenefiting from Global Warming: Agricultural Production in Northeast China. IDS Bulletin, 2005, 36, 15-32.	0.8	6
42	FACE-IT: A Science Gateway for Food Security Research. , 2014, , .		3