

Qiang Yu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

268
papers

6,261
citations

42
h-index

65
g-index

283
ext. papers

7,851
ext. citations

5.2
avg, IF

6.09
L-index

#	Paper	IF	Citations
268	Effect of soil water deficit on evapotranspiration, crop yield, and water use efficiency in the North China Plain. <i>Agricultural Water Management</i> , 2004 , 64, 107-122	5.9	210
267	Effect of precipitation change on water balance and WUE of the winter wheat/summer maize rotation in the North China Plain. <i>Agricultural Water Management</i> , 2010 , 97, 1139-1145	5.9	192
266	Soil nitrate accumulation, leaching and crop nitrogen use as influenced by fertilization and irrigation in an intensive wheat/maize double cropping system in the North China Plain. <i>Plant and Soil</i> , 2006 , 284, 335-350	4.2	165
265	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	5.9	155
264	Modelling the effects of climate variability and water management on crop water productivity and water balance in the North China Plain. <i>Agricultural Water Management</i> , 2010 , 97, 1175-1184	5.9	146
263	Spatial patterns and temporal dynamics in savanna vegetation phenology across the North Australian Tropical Transect. <i>Remote Sensing of Environment</i> , 2013 , 139, 97-115	13.2	141
262	Impacts of recent climate warming, cultivar changes, and crop management on winter wheat phenology across the Loess Plateau of China. <i>Agricultural and Forest Meteorology</i> , 2015 , 200, 135-143	5.8	114
261	Irrigation strategies to improve the water use efficiency of wheat/maize double cropping systems in North China Plain. <i>Agricultural Water Management</i> , 2010 , 97, 1165-1174	5.9	111
260	Comparison of algorithms for incoming atmospheric long-wave radiation. <i>Water Resources Research</i> , 2009 , 45,	5.4	105
259	Quantifying production potentials of winter wheat in the North China Plain. <i>European Journal of Agronomy</i> , 2006 , 24, 226-235	5	100
258	Climate, agricultural production and hydrological balance in the North China Plain. <i>International Journal of Climatology</i> , 2008 , 28, 1959-1970	3.5	96
257	Environmental changes drive the temporal stability of semi-arid natural grasslands through altering species asynchrony. <i>Journal of Ecology</i> , 2015 , 103, 1308-1316	6	87
256	Quantifying the effects of climate trends in the past 43 years (1961-2003) on crop growth and water demand in the North China Plain. <i>Climatic Change</i> , 2010 , 100, 559-578	4.5	87
255	Dynamics of component carbon fluxes in a semi-arid Acacia woodland, central Australia. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 1168-1185	3.7	82
254	Calibration of Terra/MODIS gross primary production over an irrigated cropland on the North China Plain and an alpine meadow on the Tibetan Plateau. <i>Global Change Biology</i> , 2008 , 14, 757-767	11.4	82
253	Advance of tree-flowering dates in response to urban climate change. <i>Agricultural and Forest Meteorology</i> , 2006 , 138, 120-131	5.8	77
252	Modeling Wheat and Maize Productivity as Affected by Climate Variation and Irrigation Supply in North China Plain. <i>Agronomy Journal</i> , 2010 , 102, 1037-1049	2.2	73

251	Modeling a wheat-maize double cropping system in China using two plant growth modules in RZWQM. <i>Agricultural Systems</i> , 2006 , 89, 457-477	6.1	70
250	Machine learning-based integration of remotely-sensed drought factors can improve the estimation of agricultural drought in South-Eastern Australia. <i>Agricultural Systems</i> , 2019 , 173, 303-316	6.1	68
249	Development of distributed time-variant gain model for nonlinear hydrological systems. <i>Science in China Series D: Earth Sciences</i> , 2005 , 48, 713-723		68
248	Improving the responses of the Australian community land surface model (CABLE) to seasonal drought. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		67
247	Incorporating machine learning with biophysical model can improve the evaluation of climate extremes impacts on wheat yield in south-eastern Australia. <i>Agricultural and Forest Meteorology</i> , 2019 , 275, 100-113	5.8	65
246	Simulation of the stomatal conductance of winter wheat in response to light, temperature and CO ₂ changes. <i>Annals of Botany</i> , 2004 , 93, 435-41	4.1	64
245	Micrometeorological fluxes under the influence of regional and local advection: a revisit. <i>Agricultural and Forest Meteorology</i> , 2004 , 122, 111-124	5.8	64
244	Imbalanced atmospheric nitrogen and phosphorus depositions in China: Implications for nutrient limitation. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 1605-1616	3.7	63
243	Impact of agricultural management practices on soil organic carbon: simulation of Australian wheat systems. <i>Global Change Biology</i> , 2013 , 19, 1585-97	11.4	61
242	Year patterns of climate impact on wheat yields. <i>International Journal of Climatology</i> , 2014 , 34, 518-528	3.5	60
241	Modeling nitrogen and water management effects in a wheat-maize double-cropping system. <i>Journal of Environmental Quality</i> , 2008 , 37, 2232-42	3.4	60
240	Carbon dioxide exchange and the mechanism of environmental control in a farmland ecosystem in North China Plain. <i>Science in China Series D: Earth Sciences</i> , 2006 , 49, 226-240		60
239	Impact of climate change on wheat flowering time in eastern Australia. <i>Agricultural and Forest Meteorology</i> , 2015 , 209-210, 11-21	5.8	59
238	Soil moisture controls on phenology and productivity in a semi-arid critical zone. <i>Science of the Total Environment</i> , 2016 , 568, 1227-1237	10.2	56
237	Development of a 10-year (2001-2010) 0.1° data set of land-surface energy balance for mainland China. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 13097-13117	6.8	51
236	Optimizing resource use efficiencies in the food-energy-water nexus for sustainable agriculture: from conceptual model to decision support system. <i>Current Opinion in Environmental Sustainability</i> , 2018 , 33, 104-113	7.2	51
235	Large-scale, high-resolution agricultural systems modeling using a hybrid approach combining grid computing and parallel processing. <i>Environmental Modelling and Software</i> , 2013 , 41, 231-238	5.2	50
234	The importance of interacting climate modes on Australia's contribution to global carbon cycle extremes. <i>Scientific Reports</i> , 2016 , 6, 23113	4.9	50

233	Productivity and evapotranspiration of two contrasting semiarid ecosystems following the 2011 global carbon land sink anomaly. <i>Agricultural and Forest Meteorology</i> , 2016 , 220, 151-159	5.8	49
232	Assessing China's agricultural water use efficiency in a green-blue water perspective: A study based on data envelopment analysis. <i>Ecological Indicators</i> , 2019 , 96, 329-335	5.8	49
231	Observation and calculation of the solar radiation on the Tibetan Plateau. <i>Energy Conversion and Management</i> , 2012 , 57, 23-32	10.6	48
230	Parameterization of an ecosystem light-use-efficiency model for predicting savanna GPP using MODIS EVI. <i>Remote Sensing of Environment</i> , 2014 , 154, 253-271	13.2	45
229	Recognition of key regions for restoration of phytoplankton communities in the Huai River basin, China. <i>Journal of Hydrology</i> , 2012 , 420-421, 292-300	6	42
228	Assessing the ability of MODIS EVI to estimate terrestrial ecosystem gross primary production of multiple land cover types. <i>Ecological Indicators</i> , 2017 , 72, 153-164	5.8	42
227	A coupled model of stomatal conductance and photosynthesis for winter wheat. <i>Photosynthetica</i> , 2008 , 46, 637-640	2.2	42
226	Use of satellite leaf area index estimating evapotranspiration and gross assimilation for Australian ecosystems. <i>Ecohydrology</i> , 2018 , 11, e1974	2.5	41
225	Environment. Building a "green" railway in China. <i>Science</i> , 2007 , 316, 546-7	33.3	41
224	Impacts of rainfall extremes on wheat yield in semi-arid cropping systems in eastern Australia. <i>Climatic Change</i> , 2018 , 147, 555-569	4.5	37
223	Australian wheat production expected to decrease by the late 21st century. <i>Global Change Biology</i> , 2018 , 24, 2403-2415	11.4	37
222	Multi-model ensemble projections of future extreme temperature change using a statistical downscaling method in south eastern Australia. <i>Climatic Change</i> , 2016 , 138, 85-98	4.5	37
221	Ecosystem water use efficiency in an irrigated cropland in the North China Plain. <i>Journal of Hydrology</i> , 2009 , 374, 329-337	6	36
220	Mapping Irrigated and Rainfed Wheat Areas Using Multi-Temporal Satellite Data. <i>Remote Sensing</i> , 2016 , 8, 207	5	36
219	Using multi-model ensembles of CMIP5 global climate models to reproduce observed monthly rainfall and temperature with machine learning methods in Australia. <i>International Journal of Climatology</i> , 2018 , 38, 4891-4902	3.5	35
218	Quantifying the interactive impacts of global dimming and warming on wheat yield and water use in China. <i>Agricultural and Forest Meteorology</i> , 2013 , 182-183, 342-351	5.8	35
217	Soil microbial respiration rate and temperature sensitivity along a north-south forest transect in eastern China: Patterns and influencing factors. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 399-410	3.7	34
216	Effects of water stress on water use efficiency of irrigated and rainfed wheat in the Loess Plateau, China. <i>Science of the Total Environment</i> , 2018 , 642, 1-11	10.2	34

215	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. <i>Agricultural Water Management</i> , 2010 , 97, 1146-1155	5.9	34
214	Simulation of diurnal variations of CO ₂ , water and heat fluxes over winter wheat with a model coupled photosynthesis and transpiration. <i>Agricultural and Forest Meteorology</i> , 2006 , 137, 194-219	5.8	34
213	Attribution of climate and human activities to vegetation change in China using machine learning techniques. <i>Agricultural and Forest Meteorology</i> , 2020 , 294, 108146	5.8	34
212	Multi-model ensemble projections of future extreme heat stress on rice across southern China. <i>Theoretical and Applied Climatology</i> , 2018 , 133, 1107-1118	3	33
211	Surface fluxes and water balance of spatially varying vegetation within a small mountainous headwater catchment. <i>Hydrology and Earth System Sciences</i> , 2010 , 14, 965-978	5.5	33
210	Quantifying the effects of advection on canopy energy budgets and water use efficiency in an irrigated wheat field in the North China Plain. <i>Agricultural Water Management</i> , 2007 , 89, 116-122	5.9	33
209	Using an improved SWAT model to simulate hydrological responses to land use change: A case study of a catchment in tropical Australia. <i>Journal of Hydrology</i> , 2020 , 585, 124822	6	32
208	Dynamic wheat yield forecasts are improved by a hybrid approach using a biophysical model and machine learning technique. <i>Agricultural and Forest Meteorology</i> , 2020 , 285-286, 107922	5.8	32
207	Challenges and opportunities in land surface modelling of savanna ecosystems. <i>Biogeosciences</i> , 2017 , 14, 4711-4732	4.6	32
206	Estimation of Winter Wheat Evapotranspiration under Water Stress with Two Semiempirical Approaches. <i>Agronomy Journal</i> , 2004 , 96, 159	2.2	32
205	Joint structural and physiological control on the interannual variation in productivity in a temperate grassland: A data-model comparison. <i>Global Change Biology</i> , 2018 , 24, 2965-2979	11.4	31
204	Quantifying the contributions of agricultural oasis expansion, management practices and climate change to net primary production and evapotranspiration in croplands in arid northwest China. <i>Journal of Arid Environments</i> , 2014 , 100-101, 31-41	2.5	31
203	Satellite-observed vegetation stability in response to changes in climate and total water storage in Central Asia. <i>Science of the Total Environment</i> , 2019 , 659, 862-871	10.2	31
202	Hydrologic and water-quality rehabilitation of environments for suitable fish habitat. <i>Journal of Hydrology</i> , 2015 , 530, 799-814	6	30
201	Linking hydrologic, physical and chemical habitat environments for the potential assessment of fish community rehabilitation in a developing city. <i>Journal of Hydrology</i> , 2015 , 523, 384-397	6	30
200	Impacts of future climate change on water resource availability of eastern Australia: A case study of the Manning River basin. <i>Journal of Hydrology</i> , 2019 , 573, 49-59	6	29
199	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	5.8	29
198	Modelling wheat yield change under CO ₂ increase, heat and water stress in relation to plant available water capacity in eastern Australia. <i>European Journal of Agronomy</i> , 2017 , 90, 152-161	5	29

197	Calculating e-flow using UAV and ground monitoring. <i>Journal of Hydrology</i> , 2017 , 552, 351-365	6	29
196	Sustainable limits to crop residue harvest for bioenergy: maintaining soil carbon in Australia's agricultural lands. <i>GCB Bioenergy</i> , 2015 , 7, 479-487	5.6	28
195	Diverse Responses of Winter Wheat Yield and Water Use to Climate Change and Variability on the Semiarid Loess Plateau in China. <i>Agronomy Journal</i> , 2014 , 106, 1169-1178	2.2	28
194	Simulation of leaf photosynthesis of winter wheat on Tibetan Plateau and in North China Plain. <i>Ecological Modelling</i> , 2002 , 155, 205-216	3	28
193	Spatiotemporal changes in wheat phenology, yield and water use efficiency under the CMIP5 multimodel ensemble projections in eastern Australia. <i>Climate Research</i> , 2017 , 72, 83-99	1.6	28
192	Impacts of elevated CO ₂ , climate change and their interactions on water budgets in four different catchments in Australia. <i>Journal of Hydrology</i> , 2014 , 519, 1350-1361	6	27
191	A modeling investigation of canopy-air oxygen isotopic exchange of water vapor and carbon dioxide in a soybean field. <i>Journal of Geophysical Research</i> , 2010 , 115,		27
190	Energy fluxes and the Priestley-Taylor parameter over winter wheat and maize in the North China Plain. <i>Hydrological Processes</i> , 2004 , 18, 2235-2246	3.3	27
189	Interpreting the groundwater attributes influencing the distribution patterns of groundwater-dependent vegetation in northwestern China. <i>Ecohydrology</i> , 2012 , 5, 628-636	2.5	26
188	Modelling vegetation water-use and groundwater recharge as affected by climate variability in an arid-zone Acacia savanna woodland. <i>Journal of Hydrology</i> , 2014 , 519, 1084-1096	6	25
187	Grasshoppers regulate N:p stoichiometric homeostasis by changing phosphorus contents in their frass. <i>PLoS ONE</i> , 2014 , 9, e103697	3.7	25
186	A model inter-comparison study to examine limiting factors in modelling Australian tropical savannas. <i>Biogeosciences</i> , 2016 , 13, 3245-3265	4.6	25
185	Impact of spatial variations in water quality and hydrological factors on the food-web structure in urban aquatic environments. <i>Water Research</i> , 2019 , 153, 121-133	12.5	24
184	Distribution margins as natural laboratories to infer species flowering responses to climate warming and implications for frost risk. <i>Agricultural and Forest Meteorology</i> , 2019 , 268, 299-307	5.8	24
183	Intrinsic climate dependency of ecosystem light and water-use-efficiencies across Australian biomes. <i>Environmental Research Letters</i> , 2014 , 9, 104002	6.2	24
182	Simulation of within-canopy radiation exchange. <i>Njas - Wageningen Journal of Life Sciences</i> , 2009 , 57, 5-15	7	24
181	Winter Cover Crop Effects on Nitrate Leaching in Subsurface Drainage as Simulated by RZWQM-DSSAT. <i>Transactions of the ASABE</i> , 2008 , 51, 1575-1583	0.9	24
180	Impacts of climate change and crop management practices on soybean phenology changes in China. <i>Science of the Total Environment</i> , 2020 , 707, 135638	10.2	24

179	Designing wheat ideotypes to cope with future changing climate in South-Eastern Australia. <i>Agricultural Systems</i> , 2019 , 170, 9-18	6.1	24
178	Spatio-temporal distribution of sugarcane potential yields and yield gaps in Southern China. <i>European Journal of Agronomy</i> , 2018 , 92, 72-83	5	24
177	Increased uncertainty in simulated maize phenology with more frequent supra-optimal temperature under climate warming. <i>European Journal of Agronomy</i> , 2015 , 71, 19-33	5	23
176	Effects of climate trends and variability on wheat yield variability in eastern Australia. <i>Climate Research</i> , 2015 , 64, 173-186	1.6	23
175	Simplified expressions for radiation scattering in canopies with ellipsoidal leaf angle distributions. <i>Agricultural and Forest Meteorology</i> , 2007 , 144, 230-235	5.8	23
174	Changes in the relationship between solar radiation and sunshine duration in large cities of China. <i>Energy</i> , 2015 , 82, 589-600	7.9	22
173	Evaluating Spatial Representativeness of Station Observations for Remotely Sensed Leaf Area Index Products. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016 , 9, 3267-3282	4.7	21
172	Biophysical controls of soil respiration in a wheat-maize rotation system in the North China Plain. <i>Agricultural and Forest Meteorology</i> , 2017 , 246, 231-240	5.8	21
171	Performance evaluation and correction of precipitation data using the 20-year IMERG and TMPA precipitation products in diverse subregions of China. <i>Atmospheric Research</i> , 2021 , 249, 105304	5.4	21
170	Identifying key meteorological factors to yield variation of potato and the optimal planting date in the agro-pastoral ecotone in North China. <i>Agricultural and Forest Meteorology</i> , 2018 , 256-257, 283-291	5.8	20
169	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, 1466-79	3.4	20
168	Simulation of rice biomass accumulation by an extended logistic model including influence of meteorological factors. <i>International Journal of Biometeorology</i> , 2002 , 46, 185-91	3.7	20
167	Agricultural vulnerability over the Chinese Loess Plateau in response to climate change: Exposure, sensitivity, and adaptive capacity. <i>Ambio</i> , 2016 , 45, 350-60	6.5	18
166	Using soil aggregate stability and erodibility to evaluate the sustainability of large-scale afforestation of Robinia pseudoacacia and Caragana korshinskii in the Loess Plateau. <i>Forest Ecology and Management</i> , 2019 , 450, 117491	3.9	18
165	Parallelization and optimization of spatial analysis for large scale environmental model data assembly. <i>Computers and Electronics in Agriculture</i> , 2012 , 89, 94-99	6.5	18
164	Aerodynamic Resistance and Penman-Monteith Evapotranspiration over a Seasonally Two-Layered Canopy in Semiarid Central Australia. <i>Journal of Hydrometeorology</i> , 2013 , 14, 1562-1570	3.7	18
163	Modelling nitrous oxide and carbon dioxide emission from soil in an incubation experiment. <i>Geoderma</i> , 2011 , 167-168, 328-339	6.7	18
162	Characterizing spatial and temporal variability of crop yield caused by climate and irrigation in the North China Plain. <i>Theoretical and Applied Climatology</i> , 2011 , 106, 365-381	3	18

161	Much Improved Irrigation Use Efficiency in an Intensive Wheat-Maize Double Cropping System in the North China Plain. <i>Journal of Integrative Plant Biology</i> , 2007 , 49, 1517-1526	8.3	18
160	Decadal water storage decrease driven by vegetation changes in the Yellow River Basin. <i>Science Bulletin</i> , 2020 , 65, 1859-1861	10.6	17
159	Zooplankton in highly regulated rivers: Changing with water environment. <i>Ecological Engineering</i> , 2013 , 58, 323-334	3.9	17
158	Application of a progressive-difference method to identify climatic factors causing variation in the rice yield in the Yangtze Delta, China. <i>International Journal of Biometeorology</i> , 2001 , 45, 53-8	3.7	17
157	Modelling Seasonal and Inter-annual Variations in Carbon and Water Fluxes in an Arid-Zone Acacia Savanna Woodland, 1981-2012. <i>Ecosystems</i> , 2016 , 19, 625-644	3.9	16
156	Quantifying sources of uncertainty in projected wheat yield changes under climate change in eastern Australia. <i>Climatic Change</i> , 2018 , 151, 259-273	4.5	16
155	Projected changes in drought across the wheat belt of southeastern Australia using a downscaled climate ensemble. <i>International Journal of Climatology</i> , 2019 , 39, 1041-1053	3.5	15
154	Sources of uncertainty for wheat yield projections under future climate are site-specific. <i>Nature Food</i> , 2020 , 1, 720-728	14.4	15
153	Influence of phosphorus fertilization patterns on the bacterial community in upland farmland. <i>Industrial Crops and Products</i> , 2020 , 155, 112761	5.9	15
152	Impacts of diffuse radiation fraction on light use efficiency and gross primary production of winter wheat in the North China Plain. <i>Agricultural and Forest Meteorology</i> , 2019 , 275, 233-242	5.8	14
151	Using large-scale climate drivers to forecast meteorological drought condition in growing season across the Australian wheatbelt. <i>Science of the Total Environment</i> , 2020 , 724, 138162	10.2	14
150	Assessing Impacts of Climate Change and Human Activities on Streamflow and Sediment Discharge in the Ganjiang River Basin (1964-2013). <i>Water (Switzerland)</i> , 2019 , 11, 1679	3	14
149	Evaluation of SHAW Model in Simulating Energy Balance, Leaf Temperature, and Micrometeorological Variables within a Maize Canopy. <i>Agronomy Journal</i> , 2006 , 98, 722-729	2.2	14
148	Identification of current research intensity and influence factors of agricultural nitrogen loss from cropping systems. <i>Journal of Cleaner Production</i> , 2020 , 276, 123308	10.3	14
147	Changes in Stream Flow and Their Relationships with Climatic Variations and Anthropogenic Activities in the Poyang Lake Basin, China. <i>Water (Switzerland)</i> , 2016 , 8, 564	3	14
146	Trend and Change-Point Analysis of Streamflow and Sediment Discharge of the Gongshui River in China during the Last 60 Years. <i>Water (Switzerland)</i> , 2018 , 10, 1273	3	14
145	Identifying agronomic options for better potato production and conserving water resources in the agro-pastoral ecotone in North China. <i>Agricultural and Forest Meteorology</i> , 2019 , 272-273, 91-101	5.8	13
144	Analyzing adaptation strategies for maize production under future climate change in Guanzhong Plain, China. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2020 , 25, 1523-1543	3.9	13

143	Target areas for harmonizing the Grain for Green Programme in China's Loess Plateau. <i>Land Degradation and Development</i> , 2020 , 31, 325-333	4.4	13
142	Vegetation and species impacts on soil organic carbon sequestration following ecological restoration over the Loess Plateau, China. <i>Geoderma</i> , 2020 , 371, 114389	6.7	13
141	Soil microbial community and network changes after long-term use of plastic mulch and nitrogen fertilization on semiarid farmland. <i>Geoderma</i> , 2021 , 396, 115086	6.7	13
140	Quantifying the impacts of pre-occurred ENSO signals on wheat yield variation using machine learning in Australia. <i>Agricultural and Forest Meteorology</i> , 2020 , 291, 108043	5.8	12
139	Evaluating Global Land Surface Models in CMIP5: Analysis of Ecosystem Water- and Light-Use Efficiencies and Rainfall Partitioning. <i>Journal of Climate</i> , 2018 , 31, 2995-3008	4.4	12
138	Climate constraints on growth and recruitment patterns of <i>Abies faxoniana</i> over altitudinal gradients in the Wanglang Natural Reserve, eastern Tibetan Plateau. <i>Australian Journal of Botany</i> , 2012 , 60, 602	1.2	12
137	Simulating winter wheat development response to temperature: Modifying Malo's exponential sine equation. <i>Computers and Electronics in Agriculture</i> , 2008 , 63, 274-281	6.5	12
136	Characterization of CO ₂ and water vapor fluxes in a summer maize field with wavelet analysis. <i>Ecological Informatics</i> , 2008 , 3, 397-409	4.2	12
135	Estimation of soil water content and evapotranspiration from irrigated cropland on the North China Plain. <i>Journal of Plant Nutrition and Soil Science</i> , 2008 , 171, 751-761	2.3	12
134	Summer forage cropping as an effective way to control deep drainage in south-eastern Australia: A simulation study. <i>Agriculture, Ecosystems and Environment</i> , 2008 , 125, 127-136	5.7	12
133	Effects of climatic variation and warming on rice development across South China. <i>Climate Research</i> , 2008 , 36, 79-88	1.6	12
132	Yield gap and resource utilization efficiency of three major food crops in the world: A review. <i>Journal of Integrative Agriculture</i> , 2021 , 20, 349-362	3.2	12
131	Diverse sensitivity of winter crops over the growing season to climate and land surface temperature across the rainfed cropland-belt of eastern Australia. <i>Agriculture, Ecosystems and Environment</i> , 2018 , 254, 99-110	5.7	12
130	Simulating the Influences of Soil Water Stress on Leaf Expansion and Senescence of Winter Wheat. <i>Agricultural and Forest Meteorology</i> , 2020 , 291, 108061	5.8	11
129	Simulation of plant height of winter wheat under soil Water stress using modified growth functions. <i>Agricultural Water Management</i> , 2020 , 232, 106066	5.9	11
128	Identifying the principal driving factors of water ecosystem dependence and the corresponding indicator species in a pilot City, China. <i>Journal of Hydrology</i> , 2018 , 556, 488-499	6	11
127	Disentangling Climate and LAI Effects on Seasonal Variability in Water Use Efficiency Across Terrestrial Ecosystems in China. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 2429-2443	3.7	11
126	A comparison of forest fire indices for predicting fire risk in contrasting climates in China. <i>Natural Hazards</i> , 2014 , 70, 1339-1356	3	11

125	Crop water use efficiency at multiple scales. <i>Agricultural Water Management</i> , 2010 , 97, 1099-1101	5.9	11
124	Simulation of crop growth and energy and carbon dioxide fluxes at different time steps from hourly to daily. <i>Hydrological Processes</i> , 2007 , 21, 2474-2492	3.3	11
123	Influence of leaf water potential on diurnal changes in CO ₂ and water vapour fluxes. <i>Boundary-Layer Meteorology</i> , 2007 , 124, 161-181	3.4	11
122	Optimizing sowing window and cultivar choice can boost China's maize yield under 1.5 °C and 2 °C global warming. <i>Environmental Research Letters</i> , 2020 , 15, 024015	6.2	11
121	Using MODIS LAI Data to Monitor Spatio-Temporal Changes of Winter Wheat Phenology in Response to Climate Warming. <i>Remote Sensing</i> , 2020 , 12, 786	5	10
120	An integrated algorithm for estimating regional latent heat flux and daily evapotranspiration. <i>International Journal of Remote Sensing</i> , 2006 , 27, 129-152	3.1	10
119	Simulating the response of photosynthate partitioning during vegetative growth in winter wheat to environmental factors. <i>Field Crops Research</i> , 2006 , 96, 133-141	5.5	10
118	Permanent wilting point plays an important role in simulating winter wheat growth under water deficit conditions. <i>Agricultural Water Management</i> , 2020 , 229, 105954	5.9	10
117	Measured Phenology Response of Unchanged Crop Varieties to Long-Term Historical Climate Change. <i>International Journal of Plant Production</i> , 2019 , 13, 47-58	2.4	10
116	Distribution patterns of groundwater-dependent vegetation species diversity and their relationship to groundwater attributes in northwestern China. <i>Ecohydrology</i> , 2013 , 6, 191-200	2.5	9
115	Responses of LAI to rainfall explain contrasting sensitivities to carbon uptake between forest and non-forest ecosystems in Australia. <i>Scientific Reports</i> , 2017 , 7, 11720	4.9	9
114	Quantifying the effects of elevated CO ₂ on water budgets by combining FACE data with an ecohydrological model. <i>Ecohydrology</i> , 2014 , 7, 1574-1588	2.5	9
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