Kang shaozhong

List of Publications by Year
in descending order

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194	10,543	28274	42399
papers	citations	55 h-index	92 g-index

196	196	196	6528
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Improving agricultural water productivity to ensure food security in China under changing environment: From research to practice. Agricultural Water Management, 2017, 179, 5-17.	5.6	444
2	Controlled alternate partial root-zone irrigation: its physiological consequences and impact on water use efficiency. Journal of Experimental Botany, 2004, 55, 2437-2446.	4.8	384
3	Effects of limited irrigation on yield and water use efficiency of winter wheat in the Loess Plateau of China. Agricultural Water Management, 2002, 55, 203-216.	5.6	361
4	Analysis of impacts of climate variability and human activity on streamflow for a river basin in arid region of northwest China. Journal of Hydrology, 2008, 352, 239-249.	5.4	323
5	Crop coefficient and ratio of transpiration to evapotranspiration of winter wheat and maize in a semi-humid region. Agricultural Water Management, 2003, 59, 239-254.	5.6	303
6	An improved water-use efficiency for maize grown under regulated deficit irrigation. Field Crops Research, 2000, 67, 207-214.	5.1	255
7	Deficit irrigation and sustainable water-resource strategies in agriculture for Chinaâ€™s food security. Journal of Experimental Botany, 2015, 66, 2253-2269.	4.8	242
8	Effect of climate change on reference evapotranspiration and aridity index in arid region of China. Journal of Hydrology, 2013, 492, 24-34.	5.4	209
9	Comparison of three evapotranspiration models to Bowen ratio-energy balance method for a vineyard in an arid desert region of northwest China. Agricultural and Forest Meteorology, 2008, 148, 1629-1640.	4.8	192
10	Quantitative response of greenhouse tomato yield and quality to water deficit at different growth stages. Agricultural Water Management, 2013, 129, 152-162.	5.6	164
11	Comparison of interpolation methods for depth to groundwater and its temporal and spatial variations in the Minqin oasis of northwest China. Environmental Modelling and Software, 2009, 24, 1163-1170.	4.5	162
12	Alternate furrow irrigation for maize production in an arid area. Agricultural Water Management, 2000, 45, 267-274.	5.6	160
13	An improved water use efficiency of cereals under temporal and spatial deficit irrigation in north China. Agricultural Water Management, 2010, 97, 66-74.	5.6	158
14	Evapotranspiration measurement and estimation using modified Priestleyâ€“Taylor model in an irrigated maize field with mulching. Agricultural and Forest Meteorology, 2013, 168, 140-148.	4.8	144
15	Determination of comprehensive quality index for tomato and its response to different irrigation treatments. Agricultural Water Management, 2011, 98, 1228-1238.	5.6	143
16	Evapotranspiration and crop coefficient of spring maize with plastic mulch using eddy covariance in northwest China. Agricultural Water Management, 2008, 95, 1214-1222.	5.6	141
17	Water use efficiency and fruit quality of table grape under alternate partial root-zone drip irrigation. Agricultural Water Management, 2008, 95, 659-668.	5.6	130
18	Soil water distribution, water use, and yield response to partial root zone drying under a shallow groundwater table condition in a pear orchard. Scientia Horticulturae, 2002, 92, 277-291.	3.6	125

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19	Runoff and sediment loss responses to rainfall and land use in two agricultural catchments on the Loess Plateau of China. Hydrological Processes, 2001, 15, 977-988.	2.6	123
20	Water use efficiency of controlled alternate irrigation on root-divided maize plants. Agricultural Water Management, 1998, 38, 69-76.	5.6	121
21	Partitioning evapotranspiration into soil evaporation and transpiration using a modified dual crop coefficient model in irrigated maize field with ground-mulching. Agricultural Water Management, 2013, 127, 85-96.	5.6	114
22	Evaluating eddy covariance method by large-scale weighing lysimeter in a maize field of northwest China. Agricultural Water Management, 2010, 98, 87-95.	5.6	111
23	The impacts of human activities on the waterâ€“land environment of the Shiyang River basin, an arid region in northwest China / Les impacts des activitÃ©s humaines sur lâ€™environnement pÃ©do-hydrologique du bassin de la RiviÃ¨re Shiyang, une rÃ©gion aride du nord-ouest de la Chine. Hydrological Sciences Journal, 2004, 49, .	2.6	110
24	Evapotranspiration components determined by sap flow and microlysimetry techniques of a vineyard in northwest China: Dynamics and influential factors. Agricultural Water Management, 2011, 98, 1207-1214.	5.6	105
25	Can the drip irrigation under film mulch reduce crop evapotranspiration and save water under the sufficient irrigation condition?. Agricultural Water Management, 2016, 177, 128-137.	5.6	101
26	Fuzzy multi-objective linear programming applying to crop area planning. Agricultural Water Management, 2010, 98, 134-142.	5.6	100
27	Yield and physiological responses of cotton to partial root-zone irrigation in the oasis field of northwest China. Agricultural Water Management, 2006, 84, 41-52.	5.6	98
28	An improved water use efficiency for hot pepper grown under controlled alternate drip irrigation on partial roots. Scientia Horticulturae, 2001, 89, 257-267.	3.6	97
29	Improved water use efficiency and fruit quality of greenhouse crops under regulated deficit irrigation in northwest China. Agricultural Water Management, 2017, 179, 193-204.	5.6	96
30	Regulated deficit irrigation improved fruit quality and water use efficiency of pear-jujube trees. Agricultural Water Management, 2008, 95, 489-497.	5.6	95
31	Water use and yield responses of cotton to alternate partial root-zone drip irrigation in the arid area of north-west China. Irrigation Science, 2008, 26, 147-159.	2.8	93
32	Comparison of dual crop coefficient method and Shuttleworthâ€“Wallace model in evapotranspiration partitioning in a vineyard of northwest China. Agricultural Water Management, 2015, 160, 41-56.	5.6	93
33	Plastic mulch decreases available energy and evapotranspiration and improves yield and water use efficiency in an irrigated maize cropland. Agricultural Water Management, 2017, 179, 122-131.	5.6	90
34	Measuring and modeling maize evapotranspiration under plastic film-mulching condition. Journal of Hydrology, 2013, 503, 153-168.	5.4	86
35	Benefits of alternate partial root-zone irrigation on growth, water and nitrogen use efficiencies modified by fertilization and soil water status in maize. Plant and Soil, 2007, 295, 279-291.	3.7	81
36	Modeling relations of tomato yield and fruit quality with water deficit at different growth stages under greenhouse condition. Agricultural Water Management, 2014, 146, 131-148.	5.6	78

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37	Crop coefficient and evapotranspiration of grain maize modified by planting density in an arid region of northwest China. Agricultural Water Management, 2014, 142, 135-143.	5.6	78
38	Impacts of climate variability on reference evapotranspiration over 58 years in the Haihe river basin of north China. Agricultural Water Management, 2011, 98, 1660-1670.	5.6	77
39	Response of evapotranspiration and yield to planting density of solar greenhouse grown tomato in northwest China. Agricultural Water Management, 2013, 130, 44-51.	5.6	77
40	Evaluation of six potential evapotranspiration models for estimating crop potential and actual evapotranspiration in arid regions. Journal of Hydrology, 2016, 543, 450-461.	5.4	77
41	Yellow River Sediment as a Soil Amendment for Amelioration of Saline Land in the Yellow River Delta. Land Degradation and Development, 2016, 27, 1595-1602.	3.9	76
42	Effects of partial root-zone irrigation on the nitrogen absorption and utilization of maize. Agricultural Water Management, 2009, 96, 208-214.	5.6	74
43	Response of vegetative growth and fruit development to regulated deficit irrigation at different growth stages of pear-jujube tree. Agricultural Water Management, 2009, 96, 1237-1246.	5.6	73
44	Spatial variation of climatology monthly crop reference evapotranspiration and sensitivity coefficients in Shiyang river basin of northwest China. Agricultural Water Management, 2010, 97, 1506-1516.	5.6	72
45	Comparison of several surface resistance models for estimating crop evapotranspiration over the entire growing season in arid regions. Agricultural and Forest Meteorology, 2015, 208, 1-15.	4.8	69
46	Water use efficiency is improved by alternate partial root-zone irrigation of apple in arid northwest China. Agricultural Water Management, 2017, 179, 184-192.	5.6	69
47	Benefits of CO2 enrichment on crop plants are modified by soil water status. Plant and Soil, 2002, 238, 69-77.	3.7	68
48	Sap flow of irrigated Populus alba var. pyramidalis and its relationship with environmental factors and leaf area index in an arid region of Northwest China. Journal of Forest Research, 2011, 16, 144-152.	1.4	68
49	Trunk sap flow characteristics during two growth stages of apple tree and its relationships with affecting factors in an arid region of northwest China. Agricultural Water Management, 2012, 104, 193-202.	5.6	68
50	Alternate partial root-zone drying irrigation improves nitrogen nutrition in maize (Zea mays L.) leaves. Environmental and Experimental Botany, 2012, 75, 36-40.	4.2	66
51	Assessing the SIMDualKc model for estimating evapotranspiration of hot pepper grown in a solar greenhouse in Northwest China. Agricultural Systems, 2015, 138, 1-9.	6.1	66
52	The effects of partial rootzone drying on root, trunk sap flow and water balance in an irrigated pear (Pyrus communis L.) orchard. Journal of Hydrology, 2003, 280, 192-206.	5.4	65
53	Interactive effects of elevated CO2, nitrogen and drought on leaf area, stomatal conductance, and evapotranspiration of wheat. Agricultural Water Management, 2004, 67, 221-233.	5.6	62
54	<scp>C</scp>hina's food security is threatened by the unsustainable use of water resources in <scp>N</scp>orth and <scp>N</scp>orthwest <scp>C</scp>hina. Food and Energy Security, 2014, 3, 7-18.	4.3	62

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55	Partial root-zone irrigation enhanced soil enzyme activities and water use of maize under different ratios of inorganic to organic nitrogen fertilizers. Agricultural Water Management, 2010, 97, 231-239.	5.6	61
56	Temporal and spatial variations of evapotranspiration for spring wheat in the Shiyang river basin in northwest China. Agricultural Water Management, 2007, 87, 241-250.	5.6	58
57	Responses of water accumulation and solute metabolism in tomato fruit to water scarcity and implications for main fruit quality variables. Journal of Experimental Botany, 2020, 71, 1249-1264.	4.8	57
58	Estimation of evapotranspiration and its components from an apple orchard in northwest China using sap flow and water balance methods. Hydrological Processes, 2007, 21, 931-938.	2.6	55
59	Energy partitioning and evapotranspiration of hot pepper grown in greenhouse with furrow and drip irrigation methods. Scientia Horticulturae, 2011, 129, 790-797.	3.6	55
60	Spatiotemporal variation of crown-scale stomatal conductance in an arid Vitis vinifera L. cv. Merlot vineyard: direct effects of hydraulic properties and indirect effects of canopy leaf area. Tree Physiology, 2012, 32, 262-279.	3.1	55
61	A new technique to estimate regional irrigation water demand and driving factor effects using an improved SWAT model with LMDI factor decomposition in an arid basin. Journal of Cleaner Production, 2018, 185, 814-828.	9.3	55
62	Water Infiltration in Layered Soils with Air Entrapment: Modified Green-Ampt Model and Experimental Validation. Journal of Hydrologic Engineering - ASCE, 2011, 16, 628-638.	1.9	54
63	Water-use efficiency and physiological responses of maize under partial root-zone irrigation. Agricultural Water Management, 2010, 97, 1156-1164.	5.6	52
64	Deficit irrigation provokes more pronounced responses of maize photosynthesis and water productivity to elevated CO 2. Agricultural Water Management, 2018, 195, 71-83.	5.6	52
65	Effects of partial root-zone irrigation on hydraulic conductivity in the soil-root system of maize plants. Journal of Experimental Botany, 2011, 62, 4163-4172.	4.8	51
66	A warning from an ancient oasis: intensive human activities are leading to potential ecological and social catastrophe. International Journal of Sustainable Development and World Ecology, 2008, 15, 440-447.	5.9	50
67	Potato performance as influenced by the proportion of wetted soil volume and nitrogen under drip irrigation with plastic mulch. Agricultural Water Management, 2017, 179, 260-270.	5.6	50
68	Mild water and salt stress improve water use efficiency by decreasing stomatal conductance via osmotic adjustment in field maize. Science of the Total Environment, 2022, 805, 150364.	8.0	50
69	Effects of alternate partial root-zone irrigation on soil microorganism and maize growth. Plant and Soil, 2008, 302, 45-52.	3.7	49
70	Simulation of water balance in a maize field under film-mulching drip irrigation. Agricultural Water Management, 2018, 210, 252-260.	5.6	48
71	A two-dimensional model of root water uptake for single apple trees and its verification with sap flow and soil water content measurements. Agricultural Water Management, 2006, 83, 119-129.	5.6	47
72	Parameterization of the AquaCrop model for full and deficit irrigated maize for seed production in arid Northwest China. Agricultural Water Management, 2018, 203, 438-450.	5.6	47

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73	Alternate partial root-zone irrigation reduces bundle-sheath cell leakage to CO2 and enhances photosynthetic capacity in maize leaves. Journal of Experimental Botany, 2012, 63, 1145-1153.	4.8	46
74	Title is missing!. Plant and Soil, 2003, 254, 279-289.	3.7	45
75	Effect of convection on the Penmanâ€“Monteith model estimates of transpiration of hot pepper grown in solar greenhouse. Scientia Horticulturae, 2013, 160, 163-171.	3.6	43
76	Ecosystem water use efficiency for a sparse vineyard in arid northwest China. Agricultural Water Management, 2015, 148, 24-33.	5.6	42
77	Performance of AquaCrop and SIMDualKc models in evapotranspiration partitioning on full and deficit irrigated maize for seed production under plastic film-mulch in an arid region of China. Agricultural Systems, 2017, 151, 20-32.	6.1	42
78	Alternate watering in soil vertical profile improved water use efficiency of maize (Zea mays). Field Crops Research, 2002, 77, 31-41.	5.1	41
79	Irrigation water productivity is more influenced by agronomic practice factors than by climatic factors in Hexi Corridor, Northwest China. Scientific Reports, 2016, 6, 37971.	3.3	41
80	Spatio-temporal distribution of irrigation water productivity and its driving factors for cereal crops in Hexi Corridor, Northwest China. Agricultural Water Management, 2017, 179, 55-63.	5.6	40
81	Effects of irrigation on water and energy balances in the Heihe River basin using VIC model under different irrigation scenarios. Science of the Total Environment, 2018, 645, 1183-1193.	8.0	40
82	Effect of drip irrigation on wheat evapotranspiration, soil evaporation and transpiration in Northwest China. Agricultural Water Management, 2020, 232, 106001.	5.6	40
83	Simulation of winter wheat yield and water use efficiency in the Loess Plateau of China using WAVES. Agricultural Systems, 2003, 78, 355-367.	6.1	39
84	The contribution of human agricultural activities to increasing evapotranspiration is significantly greater than climate change effect over Heihe agricultural region. Scientific Reports, 2017, 7, 8805.	3.3	39
85	Vineyard evaporative fraction based on eddy covariance in an arid desert region of Northwest China. Agricultural Water Management, 2008, 95, 937-948.	5.6	38
86	Simulation of artificial neural network model for trunk sap flow of Pyrus pyrifolia and its comparison with multiple-linear regression. Agricultural Water Management, 2009, 96, 939-945.	5.6	38
87	Seasonal variations in vineyard ET partitioning and dual crop coefficients correlate with canopy development and surface soil moisture. Agricultural Water Management, 2018, 197, 19-33.	5.6	38
88	Comparison of APRI and Hydrus-2D models to simulate soil water dynamics in a vineyard under alternate partial root zone drip irrigation. Plant and Soil, 2007, 291, 211-223.	3.7	37
89	Variation in vineyard evapotranspiration in an arid region of northwest China. Agricultural Water Management, 2010, 97, 1898-1904.	5.6	37
90	Multiscale spectral analysis of temporal variability in evapotranspiration over irrigated cropland in an arid region. Agricultural Water Management, 2013, 130, 79-89.	5.6	37

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91	The response of crop water productivity to climatic variation in the upper-middle reaches of the Heihe River basin, Northwest China. Journal of Hydrology, 2018, 563, 909-926.	5.4	36
92	A simulation model of water dynamics in winter wheat field and its application in a semiarid region. Agricultural Water Management, 2001, 49, 115-129.	5.6	35
93	Evapotranspiration partitioning and variation of sap flow in female and male parents of maize for hybrid seed production in arid region. Agricultural Water Management, 2016, 176, 132-141.	5.6	35
94	Effect of water deficit in different growth stages on stem sap flux of greenhouse grown pear-jujube tree. Agricultural Water Management, 2007, 90, 190-196.	5.6	34
95	A coupled surface resistance model to estimate crop evapotranspiration in arid region of northwest China. Hydrological Processes, 2014, 28, 2312-2323.	2.6	34
96	Modification of evapotranspiration model based on effective resistance to estimate evapotranspiration of maize for seed production in an arid region of northwest China. Journal of Hydrology, 2016, 538, 194-207.	5.4	34
97	Variations of crop coefficient and its influencing factors in an arid advective cropland of northwest China. Hydrological Processes, 2015, 29, 239-249.	2.6	32
98	Annual ecosystem respiration of maize was primarily driven by crop growth and soil water conditions. Agriculture, Ecosystems and Environment, 2019, 272, 254-265.	5.3	32
99	Transpiration coefficient and ratio of transpiration to evapotranspiration of pear tree (Pyrus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 1165-1176.	2.6	31
100	Applying segmented Jarvis canopy resistance into Penman-Monteith model improves the accuracy of estimated evapotranspiration in maize for seed production with film-mulching in arid area. Agricultural Water Management, 2016, 178, 314-324.	5.6	31
101	Estimation of maize evapotranspiration under water deficits in a semiarid region. Agricultural Water Management, 2000, 43, 1-14.	5.6	30
102	Relationship between stable carbon isotope discrimination and water use efficiency under regulated deficit irrigation of pear-jujube tree. Agricultural Water Management, 2009, 96, 1615-1622.	5.6	30
103	Canopy leaf area index for apple tree using hemispherical photography in arid region. Scientia Horticulturae, 2013, 164, 610-615.	3.6	30
104	Interactive Regimes of Reduced Irrigation and Salt Stress Depressed Tomato Water Use Efficiency at Leaf and Plant Scales by Affecting Leaf Physiology and Stem Sap Flow. Frontiers in Plant Science, 2019, 10, 160.	3.6	30
105	An evapotranspiration model for sparsely vegetated canopies under partial root-zone irrigation. Agricultural and Forest Meteorology, 2009, 149, 2007-2011.	4.8	28
106	Variability in energy partitioning and resistance parameters for a vineyard in northwest China. Agricultural Water Management, 2009, 96, 955-962.	5.6	27
107	Scaling Up Stomatal Conductance from Leaf to Canopy Using a Dual-Leaf Model for Estimating Crop Evapotranspiration. PLoS ONE, 2014, 9, e95584.	2.5	27
108	Spatiotemporal Variability of Soil Moisture as Affected by Soil Properties during Irrigation Cycles. Soil Science Society of America Journal, 2014, 78, 598-608.	2.2	27

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109	Nitrogen Fertilization on Uptake of Soil Inorganic Phosphorus Fractions in the Wheat Root Zone. Soil Science Society of America Journal, 2004, 68, 1890-1895.	2.2	26
110	Responses of water productivity to irrigation and N supply for hybrid maize seed production in an arid region of Northwest China. Journal of Arid Land, 2017, 9, 504-514.	2.3	26
111	Crop production in the Hexi Corridor challenged by future climate change. Journal of Hydrology, 2019, 579, 124197.	5.4	26
112	Improving the representation of stomatal responses to CO2 within the Penmanâ€“Monteith model to better estimate evapotranspiration responses to climate change. Journal of Hydrology, 2019, 572, 692-705.	5.4	26
113	Effects of shallow water table on capillary contribution, evapotranspiration, and crop coefficient of maize and winter wheat in a semi-arid region. Australian Journal of Agricultural Research, 2001, 52, 317.	1.5	25
114	Environmental burdens of groundwater extraction for irrigation over an inland river basin in Northwest China. Journal of Cleaner Production, 2019, 222, 182-192.	9.3	25
115	Response of dry matter and water use efficiency of alfalfa to water and salinity stress in arid and semiarid regions of Northwest China. Agricultural Water Management, 2021, 254, 106934.	5.6	25
116	A comparison of three methods for determining vineyard evapotranspiration in the arid desert regions of northwest China. Hydrological Processes, 2008, 22, 4554-4564.	2.6	24
117	Variations in tomato yield and quality in relation to soil properties and evapotranspiration under greenhouse condition. Scientia Horticulturae, 2015, 197, 318-328.	3.6	24
118	Nitrogen application modified the effect of deficit irrigation on tomato transpiration, and water use efficiency in different growth stages. Scientia Horticulturae, 2020, 263, 109112.	3.6	24
119	An integrated irrigation strategy for water-saving and quality-improving of cash crops: Theory and practice in China. Agricultural Water Management, 2020, 241, 106331.	5.6	24
120	Xylem sap flows of irrigatedTamarix elongata Ledeb and the influence of environmental factors in the desert region of Northwest China. Hydrological Processes, 2007, 21, 1363-1369.	2.6	23
121	Antioxidation responses of maize roots and leaves to partial root-zone irrigation. Agricultural Water Management, 2010, 98, 164-171.	5.6	23
122	Quantifying the combined effects of climatic, crop and soil factors on surface resistance in a maize field. Journal of Hydrology, 2013, 489, 124-134.	5.4	23
123	A comparison of energy partitioning and evapotranspiration over closed maize and sparse grapevine canopies in northwest China. Agricultural Water Management, 2018, 203, 251-260.	5.6	22
124	Newly developed water productivity and harvest index models for maize in an arid region. Field Crops Research, 2019, 234, 73-86.	5.1	22
125	Planting density affected biomass and grain yield of maize for seed production in an arid region of Northwest China. Journal of Arid Land, 2018, 10, 292-303.	2.3	21
126	Transpiration of female and male parents of seed maize in northwest China. Agricultural Water Management, 2019, 213, 397-409.	5.6	21

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127	Vulnerability analysis based on drought and vegetation dynamics. Ecological Indicators, 2019, 105, 329-336.	6.3	21
128	Untangling the effects of future climate change and human activity on evapotranspiration in the Heihe agricultural region, Northwest China. Journal of Hydrology, 2020, 585, 124323.	5.4	21
129	Simulation of soil water in space and time using an agro-hydrological model and remote sensing techniques. Agricultural Water Management, 2010, 97, 1210-1220.	5.6	20
130	Improved application of the Penmanâ€“Monteith model using an enhanced Jarvis model that considers the effects of nitrogen fertilization on canopy resistance. Environmental and Experimental Botany, 2019, 159, 1-12.	4.2	20
131	Applying uncertain programming model to improve regional farming economic benefits and water productivity. Agricultural Water Management, 2017, 179, 352-365.	5.6	19
132	Elevated [CO₂] alleviates the impacts of water deficit on xylem anatomy and hydraulic properties of maize stems. Plant, Cell and Environment, 2020, 43, 563-578.	5.7	19
133	Response of yield and quality of greenhouse tomatoes to water and salt stresses and biochar addition in Northwest China. Agricultural Water Management, 2022, 270, 107736.	5.6	19
134	Root length density distribution and associated soil water dynamics for tomato plants under furrow irrigation in a solar greenhouse. Journal of Arid Land, 2017, 9, 637-650.	2.3	18
135	Flowering Characteristics and Yield of Maize Inbreds Grown for Hybrid Seed Production under Deficit Irrigation. Crop Science, 2017, 57, 2238-2250.	1.8	18
136	Modeling evapotranspiration and its components of maize for seed production in an arid region of northwest China using a dual crop coefficient and multisource models. Agricultural Water Management, 2019, 222, 105-117.	5.6	18
137	Capability of a solar energy-driven crop model for simulating water consumption and yield of maize and its comparison with a water-driven crop model. Agricultural and Forest Meteorology, 2020, 287, 107955.	4.8	18
138	A dynamic surface conductance to predict crop water use from partial to full canopy cover. Agricultural Water Management, 2015, 150, 1-8.	5.6	17
139	The Dynamic Yield Response Factor of Alfalfa Improves the Accuracy of Dual Crop Coefficient Approach under Water and Salt Stress. Water (Switzerland), 2020, 12, 1224.	2.7	17
140	Estimating Temperature Effects on Water Flow in Variably Saturated Soils using Activation Energy. Soil Science Society of America Journal, 2003, 67, 1327-1333.	2.2	17
141	Light Supplement and Carbon Dioxide Enrichment Affect Yield and Quality of Off-Season Pepper. Agronomy Journal, 2017, 109, 2107-2118.	1.8	16
142	Spatio-temporal variability and controls of soil respiration in a furrow-irrigated vineyard. Soil and Tillage Research, 2020, 196, 104424.	5.6	16
143	Influence of Water and Nitrogen Stress on Stem Sap Flow of Tomato Grown in a Solar Greenhouse. Journal of the American Society for Horticultural Science, 2015, 140, 111-119.	1.0	16
144	Relationship between environmental factor and maximum daily stem shrinkage in apple tree in arid region of northwest China. Scientia Horticulturae, 2011, 130, 118-125.	3.6	15

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145	On the attribution of changing crop evapotranspiration in arid regions using four methods. Journal of Hydrology, 2018, 563, 576-585.	5.4	15
146	Joint optimization of irrigation and planting pattern to guarantee seed quality, maximize yield, and save water in hybrid maize seed production. European Journal of Agronomy, 2020, 113, 125970.	4.1	15
147	Modeling soil water-salt dynamics and crop response under severely saline condition using WAVES: Searching for a target irrigation volume for saline water irrigation. Agricultural Water Management, 2021, 256, 107100.	5.6	15
148	Stomatal conductance drives variations of yield and water use of maize under water and nitrogen stress. Agricultural Water Management, 2022, 268, 107651.	5.6	15
149	Fruit water content as an indication of sugar metabolism improves simulation of carbohydrate accumulation in tomato fruit. Journal of Experimental Botany, 2020, 71, 5010-5026.	4.8	14
150	A novel approach to dynamically optimize the spatio-temporal distribution of crop water consumption. Journal of Cleaner Production, 2021, 310, 127439.	9.3	14
151	A crude protein and fiber model of alfalfa incorporating growth age under water and salt stress. Agricultural Water Management, 2021, 255, 107037.	5.6	14
152	Spatial optimization of cropping pattern in the upper-middle reaches of the Heihe River basin, Northwest China. Agricultural Water Management, 2022, 264, 107479.	5.6	14
153	Effects of deficit irrigation with saline water on spring wheat growth and yield in arid Northwest China. Journal of Arid Land, 2013, 5, 143-154.	2.3	13
154	SUGAR Model-Assisted Analysis of Carbon Allocation and Transformation in Tomato Fruit Under Different Water Along With Potassium Conditions. Frontiers in Plant Science, 2020, 11, 712.	3.6	13
155	Numerically modelling groundwater in an arid area with ANNâ€generated dynamic boundary conditions. Hydrological Processes, 2011, 25, 705-713.	2.6	12
156	Modified water-nitrogen productivity function based on response of water sensitive index to nitrogen for hybrid maize under drip fertigation. Agricultural Water Management, 2021, 245, 106566.	5.6	12
157	Alternate Application of Osmotic and Nitrogen Stresses to Partial Root System: Effects on Root Growth and Nitrogen Use Efficiency. Journal of Plant Nutrition, 2006, 29, 2079-2092.	1.9	11
158	Comparison of dynamic and static APRI-models to simulate soil water dynamics in a vineyard over the growing season under alternate partial root-zone drip irrigation. Agricultural Water Management, 2008, 95, 767-775.	5.6	11
159	Root foraging and yield components underlying limited effects of Partial Root-zone Drying on oilseed rape, a crop with an indeterminate growth habit. Plant and Soil, 2009, 323, 163-176.	3.7	11
160	Vineyard Energy Partitioning Between Canopy and Soil Surface: Dynamics and Biophysical Controls. Journal of Hydrometeorology, 2017, 18, 1809-1829.	1.9	11
161	Surface soil water content dominates the difference between ecosystem and canopy water use efficiency in a sparse vineyard. Agricultural Water Management, 2019, 226, 105817.	5.6	11
162	Estimating the upper and lower limits of kernel weight under different water regimes in hybrid maize seed production. Agricultural Water Management, 2019, 213, 128-134.	5.6	11

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163	Crop Water Stress Index as a Proxy of Phenotyping Maize Performance under Combined Water and Salt Stress. Remote Sensing, 2021, 13, 4710.	4.0	11
164	Responses of canopy transpiration and canopy conductance of peach (Prunus persica) trees to alternate partial root zone drip irrigation. Hydrological Processes, 2005, 19, 2575-2590.	2.6	10
165	Spatial variability of grape yield and its association with soil water depletion within a vineyard of arid northwest China. Agricultural Water Management, 2017, 179, 158-166.	5.6	10
166	Soil water and nitrogen dynamics from interaction of irrigation and fertilization management practices in a greenhouse vegetable rotation. Soil Science Society of America Journal, 2020, 84, 901-913.	2.2	10
167	Effects of elevated CO2 on the evapotranspiration over the agricultural land in Northwest China. Journal of Hydrology, 2021, 593, 125858.	5.4	10
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