

# Kang shaozhong

## List of Publications by Year in descending order

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194  
papers

10,543  
citations

28274

55  
h-index

42399

92  
g-index

196  
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196  
docs citations

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times ranked

6528  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mild water and salt stress improve water use efficiency by decreasing stomatal conductance via osmotic adjustment in field maize. <i>Science of the Total Environment</i> , 2022, 805, 150364.	8.0	50
2	Canal delivery and irrigation scheduling optimization based on crop water demand. <i>Agricultural Water Management</i> , 2022, 260, 107245.	5.6	7
3	Amplified warming induced by large-scale application of water-saving techniques. <i>Environmental Research Letters</i> , 2022, 17, 034018.	5.2	10
4	Spatial optimization of cropping pattern in the upper-middle reaches of the Heihe River basin, Northwest China. <i>Agricultural Water Management</i> , 2022, 264, 107479.	5.6	14
5	A framework to quantify uncertainty of crop model parameters and its application in arid Northwest China. <i>Agricultural and Forest Meteorology</i> , 2022, 316, 108844.	4.8	4
6	Stomatal conductance drives variations of yield and water use of maize under water and nitrogen stress. <i>Agricultural Water Management</i> , 2022, 268, 107651.	5.6	15
7	Plasticity in stomatal behaviour across a gradient of water supply is consistent among field-grown maize inbred lines with varying stomatal patterning. <i>Plant, Cell and Environment</i> , 2022, 45, 2324-2336.	5.7	5
8	Response of yield and quality of greenhouse tomatoes to water and salt stresses and biochar addition in Northwest China. <i>Agricultural Water Management</i> , 2022, 270, 107736.	5.6	19
9	Modified water-nitrogen productivity function based on response of water sensitive index to nitrogen for hybrid maize under drip fertigation. <i>Agricultural Water Management</i> , 2021, 245, 106566.	5.6	12
10	Effects of elevated CO <sub>2</sub> on the evapotranspiration over the agricultural land in Northwest China. <i>Journal of Hydrology</i> , 2021, 593, 125858.	5.4	10
11	Soil temperature and bacterial diversity regulate the impact of irrigation and fertilization practices on ecosystem respiration. <i>Agronomy Journal</i> , 2021, 113, 2361-2373.	1.8	2
12	Response of dry matter and water use efficiency of alfalfa to water and salinity stress in arid and semiarid regions of Northwest China. <i>Agricultural Water Management</i> , 2021, 254, 106934.	5.6	25
13	A novel approach to dynamically optimize the spatio-temporal distribution of crop water consumption. <i>Journal of Cleaner Production</i> , 2021, 310, 127439.	9.3	14
14	Water-carbon relationships and variations from the canopy to ecosystem scale in a sparse vineyard in the northwest China. <i>Journal of Hydrology</i> , 2021, 600, 126469.	5.4	4
15	A crude protein and fiber model of alfalfa incorporating growth age under water and salt stress. <i>Agricultural Water Management</i> , 2021, 255, 107037.	5.6	14
16	Modeling soil water-salt dynamics and crop response under severely saline condition using WAVES: Searching for a target irrigation volume for saline water irrigation. <i>Agricultural Water Management</i> , 2021, 256, 107100.	5.6	15
17	A hybrid PCA-SEM-ANN model for the prediction of water use efficiency. <i>Ecological Modelling</i> , 2021, 460, 109754.	2.5	6
18	Crop Water Stress Index as a Proxy of Phenotyping Maize Performance under Combined Water and Salt Stress. <i>Remote Sensing</i> , 2021, 13, 4710.	4.0	11

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19	Untangling the effects of future climate change and human activity on evapotranspiration in the Heihe agricultural region, Northwest China. <i>Journal of Hydrology</i> , 2020, 585, 124323.	5.4	21
20	Spatio-temporal variability and controls of soil respiration in a furrow-irrigated vineyard. <i>Soil and Tillage Research</i> , 2020, 196, 104424.	5.6	16
21	Elevated [CO <sub>2</sub> ] alleviates the impacts of water deficit on xylem anatomy and hydraulic properties of maize stems. <i>Plant, Cell and Environment</i> , 2020, 43, 563-578.	5.7	19
22	Nitrogen application modified the effect of deficit irrigation on tomato transpiration, and water use efficiency in different growth stages. <i>Scientia Horticulturae</i> , 2020, 263, 109112.	3.6	24
23	Joint optimization of irrigation and planting pattern to guarantee seed quality, maximize yield, and save water in hybrid maize seed production. <i>European Journal of Agronomy</i> , 2020, 113, 125970.	4.1	15
24	Responses of water accumulation and solute metabolism in tomato fruit to water scarcity and implications for main fruit quality variables. <i>Journal of Experimental Botany</i> , 2020, 71, 1249-1264.	4.8	57
25	Optimization-Based Water-Salt Dynamic Threshold Analysis of Cotton Root Zone in Arid Areas. <i>Water (Switzerland)</i> , 2020, 12, 2449.	2.7	7
26	The Dynamic Yield Response Factor of Alfalfa Improves the Accuracy of Dual Crop Coefficient Approach under Water and Salt Stress. <i>Water (Switzerland)</i> , 2020, 12, 1224.	2.7	17
27	An integrated irrigation strategy for water-saving and quality-improving of cash crops: Theory and practice in China. <i>Agricultural Water Management</i> , 2020, 241, 106331.	5.6	24
28	Fruit water content as an indication of sugar metabolism improves simulation of carbohydrate accumulation in tomato fruit. <i>Journal of Experimental Botany</i> , 2020, 71, 5010-5026.	4.8	14
29	Applicability of temporal stability analysis in predicting field mean of soil moisture in multiple soil depths and different seasons in an irrigated vineyard. <i>Journal of Hydrology</i> , 2020, 588, 125059.	5.4	6
30	SUGAR Model-Assisted Analysis of Carbon Allocation and Transformation in Tomato Fruit Under Different Water Along With Potassium Conditions. <i>Frontiers in Plant Science</i> , 2020, 11, 712.	3.6	13
31	Soil water and nitrogen dynamics from interaction of irrigation and fertilization management practices in a greenhouse vegetable rotation. <i>Soil Science Society of America Journal</i> , 2020, 84, 901-913.	2.2	10
32	Effect of drip irrigation on wheat evapotranspiration, soil evaporation and transpiration in Northwest China. <i>Agricultural Water Management</i> , 2020, 232, 106001.	5.6	40
33	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. <i>Agricultural and Forest Meteorology</i> , 2020, 287, 107955.	4.8	18
34	Comparison of evapotranspiration and energy partitioning related to main biotic and abiotic controllers in vineyards using different irrigation methods. <i>Frontiers of Agricultural Science and Engineering</i> , 2020, 7, 490.	1.4	2
35	Surface soil water content dominates the difference between ecosystem and canopy water use efficiency in a sparse vineyard. <i>Agricultural Water Management</i> , 2019, 226, 105817.	5.6	11
36	Crop production in the Hexi Corridor challenged by future climate change. <i>Journal of Hydrology</i> , 2019, 579, 124197.	5.4	26

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37	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. <i>Agricultural Water Management</i> , 2019, 222, 105-117.	5.6	18
38	Improving the representation of stomatal responses to CO <sub>2</sub> within the Penman-Monteith model to better estimate evapotranspiration responses to climate change. <i>Journal of Hydrology</i> , 2019, 572, 692-705.	5.4	26
39	Environmental burdens of groundwater extraction for irrigation over an inland river basin in Northwest China. <i>Journal of Cleaner Production</i> , 2019, 222, 182-192.	9.3	25
40	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. <i>Frontiers in Plant Science</i> , 2019, 10, 160.	3.6	30
41	Newly developed water productivity and harvest index models for maize in an arid region. <i>Field Crops Research</i> , 2019, 234, 73-86.	5.1	22
42	Improved application of the Penman-Monteith model using an enhanced Jarvis model that considers the effects of nitrogen fertilization on canopy resistance. <i>Environmental and Experimental Botany</i> , 2019, 159, 1-12.	4.2	20
43	Transpiration of female and male parents of seed maize in northwest China. <i>Agricultural Water Management</i> , 2019, 213, 397-409.	5.6	21
44	Annual ecosystem respiration of maize was primarily driven by crop growth and soil water conditions. <i>Agriculture, Ecosystems and Environment</i> , 2019, 272, 254-265.	5.3	32
45	Estimating the upper and lower limits of kernel weight under different water regimes in hybrid maize seed production. <i>Agricultural Water Management</i> , 2019, 213, 128-134.	5.6	11
46	Vulnerability analysis based on drought and vegetation dynamics. <i>Ecological Indicators</i> , 2019, 105, 329-336.	6.3	21
47	Animal stem cells: the engineering development front of 2018. <i>Frontiers of Agricultural Science and Engineering</i> , 2019, 6, 93.	1.4	0
48	A comparison of energy partitioning and evapotranspiration over closed maize and sparse grapevine canopies in northwest China. <i>Agricultural Water Management</i> , 2018, 203, 251-260.	5.6	22
49	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. <i>Journal of Cleaner Production</i> , 2018, 185, 814-828.	9.3	55
50	Parameterization of the AquaCrop model for full and deficit irrigated maize for seed production in arid Northwest China. <i>Agricultural Water Management</i> , 2018, 203, 438-450.	5.6	47
51	Deficit irrigation provokes more pronounced responses of maize photosynthesis and water productivity to elevated CO <sub>2</sub> . <i>Agricultural Water Management</i> , 2018, 195, 71-83.	5.6	52
52	Seasonal variations in vineyard ET partitioning and dual crop coefficients correlate with canopy development and surface soil moisture. <i>Agricultural Water Management</i> , 2018, 197, 19-33.	5.6	38
53	The response of crop water productivity to climatic variation in the upper-middle reaches of the Heihe River basin, Northwest China. <i>Journal of Hydrology</i> , 2018, 563, 909-926.	5.4	36
54	On the attribution of changing crop evapotranspiration in arid regions using four methods. <i>Journal of Hydrology</i> , 2018, 563, 576-585.	5.4	15

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55	Effects of irrigation on water and energy balances in the Heihe River basin using VIC model under different irrigation scenarios. <i>Science of the Total Environment</i> , 2018, 645, 1183-1193.	8.0	40
56	Simulating kernel number under different water regimes using the Water-Flowering Model in hybrid maize seed production. <i>Agricultural Water Management</i> , 2018, 209, 188-196.	5.6	8
57	Planting density affected biomass and grain yield of maize for seed production in an arid region of Northwest China. <i>Journal of Arid Land</i> , 2018, 10, 292-303.	2.3	21
58	Simulation of water balance in a maize field under film-mulching drip irrigation. <i>Agricultural Water Management</i> , 2018, 210, 252-260.	5.6	48
59	Improved water use efficiency and fruit quality of greenhouse crops under regulated deficit irrigation in northwest China. <i>Agricultural Water Management</i> , 2017, 179, 193-204.	5.6	96
60	Potato performance as influenced by the proportion of wetted soil volume and nitrogen under drip irrigation with plastic mulch. <i>Agricultural Water Management</i> , 2017, 179, 260-270.	5.6	50
61	Improving agricultural water productivity to ensure food security in China under changing environment: From research to practice. <i>Agricultural Water Management</i> , 2017, 179, 5-17.	5.6	444
62	Water use efficiency is improved by alternate partial root-zone irrigation of apple in arid northwest China. <i>Agricultural Water Management</i> , 2017, 179, 184-192.	5.6	69
63	Spatial Variation of Winegrape Yield and Berry Composition and their Relationships to Spatiotemporal Distribution of Soil Water Content. <i>American Journal of Enology and Viticulture</i> , 2017, 68, 369-377.	1.7	6
64	Vineyard Energy Partitioning Between Canopy and Soil Surface: Dynamics and Biophysical Controls. <i>Journal of Hydrometeorology</i> , 2017, 18, 1809-1829.	1.9	11
65	Responses of water productivity to irrigation and N supply for hybrid maize seed production in an arid region of Northwest China. <i>Journal of Arid Land</i> , 2017, 9, 504-514.	2.3	26
66	The contribution of human agricultural activities to increasing evapotranspiration is significantly greater than climate change effect over Heihe agricultural region. <i>Scientific Reports</i> , 2017, 7, 8805.	3.3	39
67	Root length density distribution and associated soil water dynamics for tomato plants under furrow irrigation in a solar greenhouse. <i>Journal of Arid Land</i> , 2017, 9, 637-650.	2.3	18
68	Signal intensity based on maximum daily stem shrinkage can reflect the water status of apple trees under alternate partial root-zone irrigation. <i>Agricultural Water Management</i> , 2017, 190, 21-30.	5.6	8
69	Spatio-temporal distribution of irrigation water productivity and its driving factors for cereal crops in Hexi Corridor, Northwest China. <i>Agricultural Water Management</i> , 2017, 179, 55-63.	5.6	40
70	Applying uncertain programming model to improve regional farming economic benefits and water productivity. <i>Agricultural Water Management</i> , 2017, 179, 352-365.	5.6	19
71	Plastic mulch decreases available energy and evapotranspiration and improves yield and water use efficiency in an irrigated maize cropland. <i>Agricultural Water Management</i> , 2017, 179, 122-131.	5.6	90
72	Spatial variability of grape yield and its association with soil water depletion within a vineyard of arid northwest China. <i>Agricultural Water Management</i> , 2017, 179, 158-166.	5.6	10

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73	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. <i>Agricultural Systems</i> , 2017, 151, 20-32.	6.1	42
74	Flowering Characteristics and Yield of Maize Inbreds Grown for Hybrid Seed Production under Deficit Irrigation. <i>Crop Science</i> , 2017, 57, 2238-2250.	1.8	18
75	Light Supplement and Carbon Dioxide Enrichment Affect Yield and Quality of Off-Season Pepper. <i>Agronomy Journal</i> , 2017, 109, 2107-2118.	1.8	16
76	Spatial Variability of Grapevine Bud Burst Percentage and Its Association with Soil Properties at Field Scale. <i>PLoS ONE</i> , 2016, 11, e0165738.	2.5	5
77	Yellow River Sediment as a Soil Amendment for Amelioration of Saline Land in the Yellow River Delta. <i>Land Degradation and Development</i> , 2016, 27, 1595-1602.	3.9	76
78	Irrigation water productivity is more influenced by agronomic practice factors than by climatic factors in Hexi Corridor, Northwest China. <i>Scientific Reports</i> , 2016, 6, 37971.	3.3	41
79	Modification of evapotranspiration model based on effective resistance to estimate evapotranspiration of maize for seed production in an arid region of northwest China. <i>Journal of Hydrology</i> , 2016, 538, 194-207.	5.4	34
80	Can the drip irrigation under film mulch reduce crop evapotranspiration and save water under the sufficient irrigation condition?. <i>Agricultural Water Management</i> , 2016, 177, 128-137.	5.6	101
81	Evaluation of six potential evapotranspiration models for estimating crop potential and actual evapotranspiration in arid regions. <i>Journal of Hydrology</i> , 2016, 543, 450-461.	5.4	77
82	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. <i>Agricultural Water Management</i> , 2016, 178, 314-324.	5.6	31
83	Evapotranspiration partitioning and variation of sap flow in female and male parents of maize for hybrid seed production in arid region. <i>Agricultural Water Management</i> , 2016, 176, 132-141.	5.6	35
84	Effects of irrigation and nitrogen management on hybrid maize seed production in north-west China. <i>Frontiers of Agricultural Science and Engineering</i> , 2016, 3, 55.	1.4	9
85	Variations of crop coefficient and its influencing factors in an arid advective cropland of northwest China. <i>Hydrological Processes</i> , 2015, 29, 239-249.	2.6	32
86	Assessing the SIMDualKc model for estimating evapotranspiration of hot pepper grown in a solar greenhouse in Northwest China. <i>Agricultural Systems</i> , 2015, 138, 1-9.	6.1	66
87	Comparison of dual crop coefficient method and Shuttleworth's Wallace model in evapotranspiration partitioning in a vineyard of northwest China. <i>Agricultural Water Management</i> , 2015, 160, 41-56.	5.6	93
88	Modeling crop water use in an irrigated maize cropland using a biophysical process-based model. <i>Journal of Hydrology</i> , 2015, 529, 276-286.	5.4	8
89	Comparison of several surface resistance models for estimating crop evapotranspiration over the entire growing season in arid regions. <i>Agricultural and Forest Meteorology</i> , 2015, 208, 1-15.	4.8	69
90	Deficit irrigation and sustainable water-resource strategies in agriculture for China's food security. <i>Journal of Experimental Botany</i> , 2015, 66, 2253-2269.	4.8	242

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91	Variations in tomato yield and quality in relation to soil properties and evapotranspiration under greenhouse condition. <i>Scientia Horticulturae</i> , 2015, 197, 318-328.	3.6	24
92	A dynamic surface conductance to predict crop water use from partial to full canopy cover. <i>Agricultural Water Management</i> , 2015, 150, 1-8.	5.6	17
93	Ecosystem water use efficiency for a sparse vineyard in arid northwest China. <i>Agricultural Water Management</i> , 2015, 148, 24-33.	5.6	42
94	Modeling of hydrological processes in arid agricultural regions. <i>Frontiers of Agricultural Science and Engineering</i> , 2015, 2, 283.	1.4	5
95	Influence of Water and Nitrogen Stress on Stem Sap Flow of Tomato Grown in a Solar Greenhouse. <i>Journal of the American Society for Horticultural Science</i> , 2015, 140, 111-119.	1.0	16
96	<i>Water Management</i> . , 2015, , 215-231.		0
97	Scaling Up Stomatal Conductance from Leaf to Canopy Using a Dual-Leaf Model for Estimating Crop Evapotranspiration. <i>PLoS ONE</i> , 2014, 9, e95584.	2.5	27
98	Spatiotemporal Variability of Soil Moisture as Affected by Soil Properties during Irrigation Cycles. <i>Soil Science Society of America Journal</i> , 2014, 78, 598-608.	2.2	27
99	<sc>C</sc>hina's food security is threatened by the unsustainable use of water resources in <sc>N</sc>orth and <sc>N</sc>orthwest <sc>C</sc>hina. <i>Food and Energy Security</i> , 2014, 3, 7-18.	4.3	62
100	Modeling relations of tomato yield and fruit quality with water deficit at different growth stages under greenhouse condition. <i>Agricultural Water Management</i> , 2014, 146, 131-148.	5.6	78
101	COMPREHENSIVE EVALUATION OF FARMLAND INFRASTRUCTURE IN THE ARID AREA OF NORTH-WEST CHINA. <i>Irrigation and Drainage</i> , 2014, 63, 561-572.	1.7	3
102	Crop coefficient and evapotranspiration of grain maize modified by planting density in an arid region of northwest China. <i>Agricultural Water Management</i> , 2014, 142, 135-143.	5.6	78
103	A coupled surface resistance model to estimate crop evapotranspiration in arid region of northwest China. <i>Hydrological Processes</i> , 2014, 28, 2312-2323.	2.6	34
104	Greater effect of canopy conductance in regulating the energy partition above the maize field in arid northwest China. <i>Hydrological Processes</i> , 2013, 27, 3452-3460.	2.6	7
105	Effects of deficit irrigation with saline water on spring wheat growth and yield in arid Northwest China. <i>Journal of Arid Land</i> , 2013, 5, 143-154.	2.3	13
106	Response of evapotranspiration and yield to planting density of solar greenhouse grown tomato in northwest China. <i>Agricultural Water Management</i> , 2013, 130, 44-51.	5.6	77
107	Quantitative response of greenhouse tomato yield and quality to water deficit at different growth stages. <i>Agricultural Water Management</i> , 2013, 129, 152-162.	5.6	164
108	Partitioning evapotranspiration into soil evaporation and transpiration using a modified dual crop coefficient model in irrigated maize field with ground-mulching. <i>Agricultural Water Management</i> , 2013, 127, 85-96.	5.6	114

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109	Canopy leaf area index for apple tree using hemispherical photography in arid region. <i>Scientia Horticulturae</i> , 2013, 164, 610-615.	3.6	30
110	Measuring and modeling maize evapotranspiration under plastic film-mulching condition. <i>Journal of Hydrology</i> , 2013, 503, 153-168.	5.4	86
111	Multiscale spectral analysis of temporal variability in evapotranspiration over irrigated cropland in an arid region. <i>Agricultural Water Management</i> , 2013, 130, 79-89.	5.6	37
112	Quantifying the combined effects of climatic, crop and soil factors on surface resistance in a maize field. <i>Journal of Hydrology</i> , 2013, 489, 124-134.	5.4	23
113	Effect of climate change on reference evapotranspiration and aridity index in arid region of China. <i>Journal of Hydrology</i> , 2013, 492, 24-34.	5.4	209
114	Evapotranspiration measurement and estimation using modified Priestley-Taylor model in an irrigated maize field with mulching. <i>Agricultural and Forest Meteorology</i> , 2013, 168, 140-148.	4.8	144
115	Effect of convection on the Penman-Monteith model estimates of transpiration of hot pepper grown in solar greenhouse. <i>Scientia Horticulturae</i> , 2013, 160, 163-171.	3.6	43
116	Alternate partial root-zone irrigation reduces bundle-sheath cell leakage to CO <sub>2</sub> and enhances photosynthetic capacity in maize leaves. <i>Journal of Experimental Botany</i> , 2012, 63, 1145-1153.	4.8	46
117	Analysis and simulation of the influencing factors on regional water use based on information entropy. <i>Water Policy</i> , 2012, 14, 1033-1046.	1.5	6
118	Spatiotemporal variation of crown-scale stomatal conductance in an arid <i>Vitis vinifera</i> L. cv. Merlot vineyard: direct effects of hydraulic properties and indirect effects of canopy leaf area. <i>Tree Physiology</i> , 2012, 32, 262-279.	3.1	55
119	Trunk sap flow characteristics during two growth stages of apple tree and its relationships with affecting factors in an arid region of northwest China. <i>Agricultural Water Management</i> , 2012, 104, 193-202.	5.6	68
120	Alternate partial root-zone drying irrigation improves nitrogen nutrition in maize ( <i>Zea mays</i> L.) leaves. <i>Environmental and Experimental Botany</i> , 2012, 75, 36-40.	4.2	66
121	POTENTIAL USE OF SALINE WATER FOR IRRIGATING SHELTERBELT PLANTS IN THE ARID REGION. <i>Irrigation and Drainage</i> , 2012, 61, 107-115.	1.7	6
122	Determination of comprehensive quality index for tomato and its response to different irrigation treatments. <i>Agricultural Water Management</i> , 2011, 98, 1228-1238.	5.6	143
123	Evapotranspiration components determined by sap flow and microlysimetry techniques of a vineyard in northwest China: Dynamics and influential factors. <i>Agricultural Water Management</i> , 2011, 98, 1207-1214.	5.6	105
124	Impacts of climate variability on reference evapotranspiration over 58 years in the Haihe river basin of north China. <i>Agricultural Water Management</i> , 2011, 98, 1660-1670.	5.6	77
125	Energy partitioning and evapotranspiration of hot pepper grown in greenhouse with furrow and drip irrigation methods. <i>Scientia Horticulturae</i> , 2011, 129, 790-797.	3.6	55
126	Relationship between environmental factor and maximum daily stem shrinkage in apple tree in arid region of northwest China. <i>Scientia Horticulturae</i> , 2011, 130, 118-125.	3.6	15



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127	Sap flow of irrigated <i>Populus alba</i> var. <i>pyramidalis</i> and its relationship with environmental factors and leaf area index in an arid region of Northwest China. <i>Journal of Forest Research</i> , 2011, 16, 144-152.	1.4	68
128	Comparison of spatial interpolation methods for yield response factor of winter wheat and its spatial distribution in Haihe basin of north China. <i>Irrigation Science</i> , 2011, 29, 455-468.	2.8	5
129	Numerically modelling groundwater in an arid area with ANN-generated dynamic boundary conditions. <i>Hydrological Processes</i> , 2011, 25, 705-713.	2.6	12
130	Effects of partial root-zone irrigation on hydraulic conductivity in the soil-root system of maize plants. <i>Journal of Experimental Botany</i> , 2011, 62, 4163-4172.	4.8	51
131	Water Infiltration in Layered Soils with Air Entrapment: Modified Green-Ampt Model and Experimental Validation. <i>Journal of Hydrologic Engineering - ASCE</i> , 2011, 16, 628-638.	1.9	54
132	An improved water use efficiency of cereals under temporal and spatial deficit irrigation in north China. <i>Agricultural Water Management</i> , 2010, 97, 66-74.	5.6	158
133	Partial root-zone irrigation enhanced soil enzyme activities and water use of maize under different ratios of inorganic to organic nitrogen fertilizers. <i>Agricultural Water Management</i> , 2010, 97, 231-239.	5.6	61
134	Water-use efficiency and physiological responses of maize under partial root-zone irrigation. <i>Agricultural Water Management</i> , 2010, 97, 1156-1164.	5.6	52
135	Simulation of soil water in space and time using an agro-hydrological model and remote sensing techniques. <i>Agricultural Water Management</i> , 2010, 97, 1210-1220.	5.6	20
136	Spatial variation of climatology monthly crop reference evapotranspiration and sensitivity coefficients in Shiyang river basin of northwest China. <i>Agricultural Water Management</i> , 2010, 97, 1506-1516.	5.6	72
137	Variation in vineyard evapotranspiration in an arid region of northwest China. <i>Agricultural Water Management</i> , 2010, 97, 1898-1904.	5.6	37
138	Antioxidation responses of maize roots and leaves to partial root-zone irrigation. <i>Agricultural Water Management</i> , 2010, 98, 164-171.	5.6	23
139	Evaluating eddy covariance method by large-scale weighing lysimeter in a maize field of northwest China. <i>Agricultural Water Management</i> , 2010, 98, 87-95.	5.6	111
140	Fuzzy multi-objective linear programming applying to crop area planning. <i>Agricultural Water Management</i> , 2010, 98, 134-142.	5.6	100
141	Root foraging and yield components underlying limited effects of Partial Root-zone Drying on oilseed rape, a crop with an indeterminate growth habit. <i>Plant and Soil</i> , 2009, 323, 163-176.	3.7	11
142	Benefits evaluation of water resources used for ecosystem in Shiyang River basin of Gansu province. <i>Transactions of Tianjin University</i> , 2009, 15, 108-112.	6.4	1
143	Comparison of interpolation methods for depth to groundwater and its temporal and spatial variations in the Minqin oasis of northwest China. <i>Environmental Modelling and Software</i> , 2009, 24, 1163-1170.	4.5	162
144	An evapotranspiration model for sparsely vegetated canopies under partial root-zone irrigation. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 2007-2011.	4.8	28

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145	Effects of partial root-zone irrigation on the nitrogen absorption and utilization of maize. <i>Agricultural Water Management</i> , 2009, 96, 208-214.	5.6	74
146	Simulation of artificial neural network model for trunk sap flow of <i>Pyrus pyrifolia</i> and its comparison with multiple-linear regression. <i>Agricultural Water Management</i> , 2009, 96, 939-945.	5.6	38
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