

Huade Guan

List of Publications by Year in descending order

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114
papers

4,135
citations

117453

34
h-index

133063

59
g-index

123
all docs

123
docs citations

123
times ranked

4701
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of ecological effects of potential population and impervious surface increases using a remote sensing based ecological index (RSEI). <i>Ecological Indicators</i> , 2018, 93, 730-740.	2.6	234
2	Contrasting responses of water use efficiency to drought across global terrestrial ecosystems. <i>Scientific Reports</i> , 2016, 6, 23284.	1.6	227
3	Detecting Ecological Changes with a Remote Sensing Based Ecological Index (RSEI) Produced Time Series and Change Vector Analysis. <i>Remote Sensing</i> , 2019, 11, 2345.	1.8	220
4	Different responses of MODIS-derived NDVI to root-zone soil moisture in semi-arid and humid regions. <i>Journal of Hydrology</i> , 2007, 340, 12-24.	2.3	191
5	Analysis of spatial and temporal patterns of net primary production and their climate controls in China from 1982 to 2010. <i>Agricultural and Forest Meteorology</i> , 2015, 204, 22-36.	1.9	173
6	Changes in autumn vegetation dormancy onset date and the climate controls across temperate ecosystems in China from 1982 to 2010. <i>Global Change Biology</i> , 2015, 21, 652-665.	4.2	173
7	Mountain-block hydrology and mountain-front recharge. <i>Water Science and Application</i> , 2004, , 113-137.	0.3	152
8	GRACE satellite observed hydrological controls on interannual and seasonal variability in surface greenness over mainland Australia. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 2245-2260.	1.3	118
9	Deuterium excess variations of rainfall events in a coastal area of South Australia and its relationship with synoptic weather systems and atmospheric moisture sources. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1123-1138.	1.2	103
10	Comparison of three dual-source remote sensing evapotranspiration models during the MUSOEXE-12 campaign: Revisit of model physics. <i>Water Resources Research</i> , 2015, 51, 3145-3165.	1.7	97
11	Geostatistical Mapping of Mountain Precipitation Incorporating Autosearched Effects of Terrain and Climatic Characteristics. <i>Journal of Hydrometeorology</i> , 2005, 6, 1018-1031.	0.7	93
12	Variation in performance of surfactant loading and resulting nitrate removal among four selected natural zeolites. <i>Journal of Hazardous Materials</i> , 2010, 183, 616-621.	6.5	91
13	A hybrid wavelet neural network model with mutual information and particle swarm optimization for forecasting monthly rainfall. <i>Journal of Hydrology</i> , 2015, 527, 88-100.	2.3	81
14	Environmental and physiological controls on sap flow in a subhumid mountainous catchment in North China. <i>Agricultural and Forest Meteorology</i> , 2017, 240-241, 46-57.	1.9	74
15	A hybrid dual-source model for potential evaporation and transpiration partitioning. <i>Journal of Hydrology</i> , 2009, 377, 405-416.	2.3	63
16	Ecohydrology of root zone water fluxes and soil development in complex semiarid rangelands. <i>Hydrological Processes</i> , 2006, 20, 3289-3316.	1.1	61
17	Water saving practices enhance regional efficiency of water consumption and water productivity in an arid agricultural area with shallow groundwater. <i>Agricultural Water Management</i> , 2017, 194, 78-89.	2.4	59
18	Factors influencing chloride deposition in a coastal hilly area and application to chloride deposition mapping. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 801-813.	1.9	53

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19	Multiresolution analysis of precipitation teleconnections with large-scale climate signals: A case study in South Australia. <i>Water Resources Research</i> , 2013, 49, 6995-7008.	1.7	51
20	EVALUATION OF NEXRAD STAGE III PRECIPITATION DATA OVER A SEMIARID REGION. <i>Journal of the American Water Resources Association</i> , 2006, 42, 237-256.	1.0	50
21	A cluster-optimizing regression-based approach for precipitation spatial downscaling in mountainous terrain. <i>Journal of Hydrology</i> , 2009, 375, 578-588.	2.3	50
22	Estimation of Surface Soil Moisture from Thermal Infrared Remote Sensing Using an Improved Trapezoid Method. <i>Remote Sensing</i> , 2015, 7, 8250-8270.	1.8	50
23	A wavelet-based multiple linear regression model for forecasting monthly rainfall. <i>International Journal of Climatology</i> , 2014, 34, 1898-1912.	1.5	46
24	Estimation of GRACE water storage components by temporal decomposition. <i>Journal of Hydrology</i> , 2017, 552, 341-350.	2.3	46
25	Examination of water budget using satellite products over Australia. <i>Journal of Hydrology</i> , 2014, 511, 546-554.	2.3	44
26	Optimization of canopy conductance models from concurrent measurements of sap flow and stem water potential on Drooping Sheoak in South Australia. <i>Water Resources Research</i> , 2014, 50, 6154-6167.	1.7	44
27	Groundwater facilitated water-use efficiency along a gradient of groundwater depth in arid northwestern China. <i>Agricultural and Forest Meteorology</i> , 2017, 233, 235-241.	1.9	43
28	Orographic controls on rain water isotope distribution in the Mount Lofty Ranges of South Australia. <i>Journal of Hydrology</i> , 2009, 374, 255-264.	2.3	42
29	A novel algorithm to assess gross primary production for terrestrial ecosystems from MODIS imagery. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 590-605.	1.3	42
30	Large-scale vegetation responses to terrestrial moisture storage changes. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 4469-4478.	1.9	42
31	Comparison of MODIS and SWAT evapotranspiration over a complex terrain at different spatial scales. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 2775-2794.	1.9	42
32	Estimating groundwater evapotranspiration from irrigated cropland incorporating root zone soil texture and moisture dynamics. <i>Journal of Hydrology</i> , 2016, 543, 501-509.	2.3	41
33	A vegetation-focused soil-plant-atmospheric continuum model to study hydrodynamic soil-plant water relations. <i>Water Resources Research</i> , 2017, 53, 4965-4983.	1.7	39
34	Variation of the stable isotopes of water in the soil-plant-atmosphere continuum of a <i>Cinnamomum camphora</i> woodland in the East Asian monsoon region. <i>Journal of Hydrology</i> , 2020, 589, 125199.	2.3	39
35	The Effect of Critical pH on Virus Fate and Transport in Saturated Porous Medium. <i>Ground Water</i> , 2003, 41, 701-708.	0.7	35
36	Development of a fine-scale discomfort index map and its application in measuring living environments using remotely-sensed thermal infrared imagery. <i>Energy and Buildings</i> , 2017, 150, 598-607.	3.1	35

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37	Catchment conceptualisation for examining applicability of chloride mass balance method in an area with historical forest clearance. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 1233-1245.	1.9	34
38	A mathematically continuous model for describing the hydraulic properties of unsaturated porous media over the entire range of matric suctions. <i>Journal of Hydrology</i> , 2016, 541, 873-888.	2.3	33
39	Modeling the environmental controls on tree water use at different temporal scales. <i>Agricultural and Forest Meteorology</i> , 2016, 225, 24-35.	1.9	33
40	Drip irrigation enhances shallow groundwater contribution to crop water consumption in an arid area. <i>Hydrological Processes</i> , 2018, 32, 747-758.	1.1	31
41	Quantifying sapwood width for three Australian native species using electrical resistivity tomography. <i>Ecohydrology</i> , 2016, 9, 83-92.	1.1	30
42	Disaggregation of land surface temperature over a heterogeneous urban and surrounding suburban area: a case study in Shanghai, China. <i>International Journal of Remote Sensing</i> , 2013, 34, 1707-1723.	1.3	29
43	Sea breeze cooling capacity and its influencing factors in a coastal city. <i>Building and Environment</i> , 2019, 166, 106408.	3.0	28
44	Search parameters for the remote detection of extraterrestrial life. <i>Planetary and Space Science</i> , 2002, 50, 675-683.	0.9	27
45	Examination of the ecohydrological separation hypothesis in a humid subtropical area: Comparison of three methods. <i>Journal of Hydrology</i> , 2019, 571, 642-650.	2.3	27
46	Response of office building electricity consumption to urban weather in Adelaide, South Australia. <i>Urban Climate</i> , 2014, 10, 42-55.	2.4	26
47	Remediation of Nitrate-Nitrogen Contaminated Groundwater by a Heterotrophic-Autotrophic Denitrification Approach in an Aerobic Environment. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 4029-4038.	1.1	25
48	Field Evaluation of the Effectiveness of Surfactant Modified Zeolite and Iron-Oxide-Coated Sand for Removing Viruses and Bacteria from Ground Water. <i>Ground Water Monitoring and Remediation</i> , 2003, 23, 68-74.	0.6	24
49	Isotopic composition of throughfall in pine plantation and native eucalyptus forest in South Australia. <i>Journal of Hydrology</i> , 2014, 514, 150-157.	2.3	24
50	Analysis and optimization of NDVI definitions and areal fraction models in remote sensing of vegetation. <i>International Journal of Remote Sensing</i> , 2009, 30, 721-751.	1.3	23
51	Influence of sky temperature distribution on sky view factor and its applications in urban heat island. <i>International Journal of Climatology</i> , 2013, 33, 1837-1843.	1.5	23
52	Examination and parameterization of the root water uptake model from stem water potential and sap flow measurements. <i>Hydrological Processes</i> , 2013, 27, 2857-2863.	1.1	22
53	Climatic and environmental controls on stable isotopes in atmospheric water vapor near the surface observed in Changsha, China. <i>Atmospheric Environment</i> , 2018, 189, 252-263.	1.9	22
54	Canopy enhanced chloride deposition in coastal South Australia and its application for the chloride mass balance method. <i>Journal of Hydrology</i> , 2013, 497, 62-70.	2.3	21

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55	Root-zone moisture replenishment in a native vegetated catchment under Mediterranean climate. <i>Hydrological Processes</i> , 2019, 33, 2394-2407.	1.1	21
56	Maize transpiration and water productivity of two irrigated fields with varying groundwater depths in an arid area. <i>Agricultural and Forest Meteorology</i> , 2020, 281, 107849.	1.9	21
57	Improving the Jarvis-type model with modified temperature and radiation functions for sap flow simulations. <i>Journal of Hydrology</i> , 2020, 587, 124981.	2.3	21
58	Surfactant-modified zeolite can protect drinking water wells from viruses and bacteria. <i>Eos</i> , 2002, 83, 193-201.	0.1	20
59	Radiative- and artificial-cooling enhanced dew collection in a coastal area of South Australia. <i>Urban Water Journal</i> , 2014, 11, 175-184.	1.0	20
60	Toward the Use of the MODIS ET Product to Estimate Terrestrial GPP for Nonforest Ecosystems. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014, 11, 1624-1628.	1.4	20
61	Mapping interannual variability of maize cover in a large irrigation district using a vegetation index "phenological index classifier. <i>Computers and Electronics in Agriculture</i> , 2016, 123, 351-361.	3.7	20
62	Variability of seasonal precipitation extremes over China and their associations with large-scale ocean-atmosphere oscillations. <i>International Journal of Climatology</i> , 2019, 39, 613-628.	1.5	20
63	Responses of plant water use to a severe summer drought for two subtropical tree species in the central southern China. <i>Journal of Hydrology: Regional Studies</i> , 2016, 8, 1-9.	1.0	19
64	Incorporating residual temperature and specific humidity in predicting weather-dependent warm-season electricity consumption. <i>Environmental Research Letters</i> , 2017, 12, 024021.	2.2	19
65	Trends and periodicity of daily temperature and precipitation extremes during 1960-2013 in Hunan Province, central south China. <i>Theoretical and Applied Climatology</i> , 2018, 132, 71-88.	1.3	19
66	A Remote Sensing Based Method to Detect Soil Erosion in Forests. <i>Remote Sensing</i> , 2019, 11, 513.	1.8	19
67	Improvement of a simplified process-based model for estimating transpiration under water-limited conditions. <i>Hydrological Processes</i> , 2019, 33, 1670-1685.	1.1	18
68	Effects of pH and Geological Medium on Bacteriophage MS2 Transport in a Model Aquifer. <i>Geomicrobiology Journal</i> , 2003, 20, 73-84.	1.0	17
69	Urban Heat Island traverses in the City of Adelaide, South Australia. <i>Urban Climate</i> , 2016, 17, 89-101.	2.4	17
70	Determination of the saturated film conductivity to improve the EMFX model in describing the soil hydraulic properties over the entire moisture range. <i>Journal of Hydrology</i> , 2017, 549, 38-49.	2.3	16
71	Effects of atmospheric teleconnections on seasonal precipitation in mountainous regions of the southwestern U.S.: A case study in northern New Mexico. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	15
72	Development of a soil-plant-atmosphere continuum model (HDS-SPAC) based on hybrid dual-source approach and its verification in wheat field. <i>Science China Technological Sciences</i> , 2012, 55, 2671-2685.	2.0	15

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73	Mapping Mean Monthly Temperatures over a Coastal Hilly Area Incorporating Terrain Aspect Effects. <i>Journal of Hydrometeorology</i> , 2013, 14, 233-250.	0.7	15
74	GCM simulations of stable isotopes in the water cycle in comparison with GNIP observations over East Asia. <i>Journal of Meteorological Research</i> , 2012, 26, 420-437.	1.0	13
75	Relationship between precipitation isotopic compositions and synoptic atmospheric circulation patterns in the lower reach of the Yangtze River. <i>Journal of Hydrology</i> , 2022, 605, 127289.	2.3	12
76	Modelling investigation of water partitioning at a semiarid ponderosa pine hillslope. <i>Hydrological Processes</i> , 2010, 24, 1095-1105.	1.1	11
77	Particle-size effects on dissolved arsenic adsorption to an Australian laterite. <i>Environmental Earth Sciences</i> , 2013, 68, 2301-2312.	1.3	11
78	The temperature effect and correction models for using electrical resistivity to estimate wood moisture variations. <i>Journal of Hydrology</i> , 2019, 578, 124022.	2.3	11
79	Response of vegetation cover to climate variability in protected and grazed arid rangelands of South Australia. <i>Journal of Arid Environments</i> , 2019, 161, 64-71.	1.2	11
80	Numerical experiments on the impacts of surface evaporation and fractionation factors on stable isotopes in precipitation. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2016, 52, 327-339.	1.3	10
81	Response of leaf stable carbon isotope composition to temporal and spatial variabilities of aridity index on two opposite hillslopes in a native vegetated catchment. <i>Journal of Hydrology</i> , 2017, 553, 214-223.	2.3	10
82	Thermal remote sensing of plant water stress in natural ecosystems. <i>Forest Ecology and Management</i> , 2020, 476, 118433.	1.4	10
83	Photosynthetic capacity of senescent leaves for a subtropical broadleaf deciduous tree species <i>Liquidambar formosana</i> Hance. <i>Scientific Reports</i> , 2017, 7, 6323.	1.6	9
84	A hybrid transpiration model for water-limited conditions. <i>Journal of Hydrology</i> , 2019, 578, 124104.	2.3	9
85	Temporal and spatial variation in water content within living tree stems determined by electrical resistivity tomography. <i>Agricultural and Forest Meteorology</i> , 2020, 291, 108058.	1.9	9
86	Response of shelterbelt transpiration to shallow groundwater in arid areas. <i>Journal of Hydrology</i> , 2021, 592, 125611.	2.3	9
87	<i>Juncus sarophorus</i> , a native Australian species, tolerates and accumulates PFOS, PFOA and PFHxS in a glasshouse experiment. <i>Science of the Total Environment</i> , 2022, 826, 154184.	3.9	9
88	Principal component analysis of watershed hydrochemical response to forest clearance and its usefulness for chloride mass balance applications. <i>Water Resources Research</i> , 2013, 49, 4362-4378.	1.7	8
89	Simulation of stable water isotopic composition in the atmosphere using an isotopic Atmospheric Water Balance Model. <i>International Journal of Climatology</i> , 2015, 35, 846-859.	1.5	8
90	Temporal and spatial patterns of air temperature in a coastal city with a slope base setting. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 5336-5355.	1.2	8

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91	Examination of selected atmospheric and orographic effects on monthly precipitation of Taiwan using the ASOAdEK model. <i>International Journal of Climatology</i> , 2009, 29, 1171-1181.	1.5	7
92	Arsenic remediation by Australian laterites. <i>Environmental Earth Sciences</i> , 2011, 64, 247-253.	1.3	7
93	Seasonal isotopic cycles used to identify transit times and the young water fraction within the critical zone in a subtropical catchment in China. <i>Journal of Hydrology</i> , 2022, 612, 128138.	2.3	7
94	Salinity balance and historical flushing quantified in a high-rainfall catchment (Mount Lofty Ranges, South Australia). <i>Journal of Hydrology</i> , 2021, 593, 320-331.	0.9	6
95	The urban-parkland nocturnal temperature interface. <i>Urban Climate</i> , 2020, 31, 100585.	2.4	6
96	A comprehensive examination of global atmospheric CO ₂ teleconnections using wavelet-based multi-resolution analysis. <i>Environmental Earth Sciences</i> , 2015, 74, 7239-7253.	1.3	5
97	Cooling power of sea breezes and its inland penetration in dry-summer Adelaide, Australia. <i>Atmospheric Research</i> , 2021, 250, 105409.	1.8	5
98	A 7-Year Lag Precipitation Teleconnection in South Australia and Its Possible Mechanism. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	5
99	Modelling quasi-three-dimensional distribution of solar irradiance on complex terrain. <i>Environmental Modelling and Software</i> , 2022, 149, 105293.	1.9	5
100	Canopy blockage and scattering effects on apparent soil spectral reflectance and its consequence in spectral mixture analysis of vegetated surfaces. <i>International Journal of Remote Sensing</i> , 2008, 29, 3509-3522.	1.3	4
101	Effective surface areas for optimal correlations between surface brightness and air temperatures in an urban environment. <i>Journal of Applied Remote Sensing</i> , 2015, 9, 096059.	0.6	4
102	Seesaw Terrestrial Wetting and Drying Between Eastern and Western Australia. <i>Earth's Future</i> , 2021, 9, e2020EF001893.	2.4	4
103	Spatiotemporal distributions of δD in atmospheric water vapor based on TES Data during 2004–2009. <i>Journal of Meteorological Research</i> , 2012, 26, 683-699.	1.0	3
104	Examination of a coupled supply- and demand-induced stress function for root water uptake modeling. <i>Hydrology Research</i> , 2017, 48, 66-76.	1.1	3
105	Impacts of Different Onset Time El Niño Events on Winter Precipitation over South China. <i>Atmosphere</i> , 2018, 9, 366.	1.0	3
106	Global Soil Moisture–Air Temperature Coupling Based on GRACE-Derived Terrestrial Water Storage. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 7786-7796.	1.2	3
107	Catchment-scale groundwater-flow and recharge paradox revealed from base flow analysis during the Australian Millennium Drought (Mt Lofty Ranges, South Australia). <i>Hydrogeology Journal</i> , 2021, 29, 963-983.	0.9	3
108	A conceptual model for explanation of Albedo changes in Martian craters. <i>Planetary and Space Science</i> , 2008, 56, 887-894.	0.9	2

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109	Intercomparison of $\delta^{18}\text{O}$ in precipitation simulated by Isotopic GCMs with GNIP Observation over the East Asia. <i>Procedia Environmental Sciences</i> , 2011, 10, 1601-1612.	1.3	2
110	Enhanced Passive Stormwater Infiltration Improves Urban <i>Melia Azedarach</i> Functioning in Dry Season. <i>Frontiers in Climate</i> , 2022, 4, .	1.3	1
111	Peer review report 2 on Modelling hydrological losses for varying rainfall and moisture conditions in South Australian Catchments. <i>Journal of Hydrology: Regional Studies</i> , 2015, 3, 15-16.	1.0	0
112	Mathematics in Utilizing Remote Sensing Data for Investigating and Modelling Environmental Problems. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-3.	0.6	0
113	Heterotrophic-Autotrophic Denitrification. <i>SpringerBriefs in Water Science and Technology</i> , 2014, , 27-60.	0.5	0
114	Topographical influences on foliar nitrogen concentration and stable isotope composition in a Mediterranean-climate catchment. <i>Ecological Informatics</i> , 2022, 68, 101569.	2.3	0