

# Zhao Yong

## List of Publications by Year in descending order

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80  
papers

1,777  
citations

346980

22  
h-index

371746

37  
g-index

83  
all docs

83  
docs citations

83  
times ranked

1905  
citing authors

#	ARTICLE	IF	CITATIONS
1	An orthogonal opposition-based-learning Yin–Yang-pair optimization algorithm for engineering optimization. <i>Engineering With Computers</i> , 2022, 38, 1149-1183.	3.5	19
2	Effects of vegetation restoration on evapotranspiration water consumption in mountainous areas and assessment of its remaining restoration space. <i>Journal of Hydrology</i> , 2022, 605, 127259.	2.3	11
3	Climate, CO <sub>2</sub> , and Anthropogenic Drivers of Accelerated Vegetation Greening in the Haihe River Basin. <i>Remote Sensing</i> , 2022, 14, 268.	1.8	9
4	A Socio-Hydrological Unit Division and Confluence Relationship Generation Method for Human–Water Systems. <i>Water (Switzerland)</i> , 2022, 14, 2074.	1.2	2
5	Changes in reference evapotranspiration over the non-monsoon region of China during 1961–2017: Relationships with atmospheric circulation and attributions. <i>International Journal of Climatology</i> , 2021, 41, E734.	1.5	7
6	Non-negligible regional differences in the driving forces of crop-related water footprint and virtual water flows: A case study for the Beijing-Tianjin-Hebei region. <i>Journal of Cleaner Production</i> , 2021, 279, 123670.	4.6	19
7	Prediction of water shortage loss in situations with small samples based on an improved Gumbel copula. <i>Journal of Earth System Science</i> , 2021, 130, 1.	0.6	3
8	Simulation of the virtual water flow pattern associated with interprovincial grain trade and its impact on water resources stress in China. <i>Journal of Cleaner Production</i> , 2021, 288, 125670.	4.6	23
9	Application of the Beta Probability Density Function for Representing Infiltration of Water-Repellent Soil. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 697, 012002.	0.2	0
10	Dynamic Regulation of Reservoir Drought Limit Water Level. <i>Water Resources</i> , 2021, 48, 194-203.	0.3	2
11	Landscape Pattern Evolution Processes of Wetlands and Their Driving Factors in the Xiong'an New Area of China. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 4403.	1.2	19
12	Spatiotemporal variation and predictability of vegetation coverage in the Beijing–Tianjin–Hebei metropolitan region, China. <i>Theoretical and Applied Climatology</i> , 2021, 145, 47-62.	1.3	4
13	Virtual water output intensifies the water scarcity in Northwest China: Current situation, problem analysis and countermeasures. <i>Science of the Total Environment</i> , 2021, 765, 144276.	3.9	39
14	Impacts of the Indo-Pacific Warm Pool on Lower Stratospheric Water Vapor: Seasonality and Hemispheric Contrasts. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034363.	1.2	6
15	Use of sustainability index and cellular automata-Markov model to determine and predict long-term spatio-temporal variation of drought in China. <i>Journal of Hydrology</i> , 2021, 598, 126248.	2.3	15
16	The regulation and management of water resources in groundwater over-extraction area based on ET. <i>Theoretical and Applied Climatology</i> , 2021, 146, 57-69.	1.3	5
17	From nature-based to engineering-based: The interaction process and turning point of the city-water system relationship in the North China plain. <i>Applied Geography</i> , 2021, 135, 102556.	1.7	3
18	Spatial and Temporal Characteristics of Precipitation and Potential Influencing Factors in the Loess Plateau before and after the Implementation of the Grain for Green Project. <i>Water (Switzerland)</i> , 2021, 13, 234.	1.2	4

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19	Food habit and climate change impacts on agricultural water security during the peak population period in China. <i>Agricultural Water Management</i> , 2021, 258, 107211.	2.4	12
20	Evaluation of the water consumption of animal products and the virtual water flow pattern associated with interprovincial trade in China. <i>Journal of Cleaner Production</i> , 2021, , 129599.	4.6	6
21	Effects of future climate change on summer maize growth in Shijin Irrigation District. <i>Theoretical and Applied Climatology</i> , 2020, 139, 33-44.	1.3	7
22	Urban closed lakes: Nutrient sources, assimilative capacity and pollutant reduction under different precipitation frequencies. <i>Science of the Total Environment</i> , 2020, 700, 134531.	3.9	12
23	Water stress assessment integrated with virtual water trade and physical transfer water: A case study of Beijing, China. <i>Science of the Total Environment</i> , 2020, 708, 134578.	3.9	19
24	Life-cycle-based water footprint assessment of coal-fired power generation in China. <i>Journal of Cleaner Production</i> , 2020, 254, 120098.	4.6	46
25	The spatial and temporal evolution of the actual evapotranspiration based on the remote sensing method in the Loess Plateau. <i>Science of the Total Environment</i> , 2020, 708, 135111.	3.9	33
26	Meteorological drought risk in the Daqing River Basin, North China: current observations and future projections. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020, 34, 1795-1811.	1.9	4
27	Multi-target planting structure adjustment under different hydrologic years using AquaCrop model. <i>Theoretical and Applied Climatology</i> , 2020, 142, 1343-1357.	1.3	7
28	Evaluation of Groundwater Overdraft Governance Measures in Hengshui City, China. <i>Sustainability</i> , 2020, 12, 3564.	1.6	4
29	Individual Water-Saving Response Based on Complex Adaptive System Theory: Case Study of Beijing City, China. <i>Water (Switzerland)</i> , 2020, 12, 1478.	1.2	4
30	Streamflow into Beijing and Its Response to Climate Change and Human Activities over the Period 1956â€“2016. <i>Water (Switzerland)</i> , 2020, 12, 622.	1.2	12
31	A new copula-based standardized precipitation evapotranspiration streamflow index for drought monitoring. <i>Journal of Hydrology</i> , 2020, 585, 124793.	2.3	50
32	Comprehensive evaluation of hydrological drought and its relationships with meteorological drought in the Yellow River basin, China. <i>Journal of Hydrology</i> , 2020, 584, 124751.	2.3	93
33	Utilizing GRACE-based groundwater drought index for drought characterization and teleconnection factors analysis in the North China Plain. <i>Journal of Hydrology</i> , 2020, 585, 124849.	2.3	76
34	Available Water Supplies in Beijing, China, Under Singleâ€•and Multiâ€•Year Drought. <i>Journal of the American Water Resources Association</i> , 2020, 56, 230-246.	1.0	1
35	Climatic and associated atmospheric water cycle changes over the Xinjiang, China. <i>Journal of Hydrology</i> , 2020, 585, 124823.	2.3	64
36	Application of a water infiltration model for simulating water repellency of humus soil. <i>Hydrological Processes</i> , 2020, 34, 2793-2809.	1.1	2

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37	Calculation of ecological water requirements of urban rivers using a hydrological model: A case study of Beiyun River. <i>Journal of Cleaner Production</i> , 2020, 262, 121368.	4.6	17
38	The water–energy nexus: energy use for water supply in China. <i>International Journal of Water Resources Development</i> , 2019, 35, 587-604.	1.2	36
39	Data-Driven Stochastic Scheduling for Energy Integrated Systems. <i>Energies</i> , 2019, 12, 2317.	1.6	2
40	Optimal Water Allocation Based on Water Rights Transaction Models with Administered and Market-Based Systems: A Case Study of Shiyang River Basin, China. <i>Water (Switzerland)</i> , 2019, 11, 577.	1.2	8
41	Attribution analysis based on Budyko hypothesis for land evapotranspiration change in the Loess Plateau, China. <i>Journal of Arid Land</i> , 2019, 11, 939-953.	0.9	15
42	The Spatiotemporal Variability of Evapotranspiration and Its Response to Climate Change and Land Use/Land Cover Change in the Three Gorges Reservoir. <i>Water (Switzerland)</i> , 2019, 11, 1739.	1.2	14
43	A Bibliometrics Review of Water Footprint Research in China: 2003–2018. <i>Sustainability</i> , 2019, 11, 5082.	1.6	28
44	Impact of virtual water transfer among electric sub-grids on China's water sustainable developments in 2016, 2030, and 2050. <i>Journal of Cleaner Production</i> , 2019, 239, 118056.	4.6	17
45	Hydro-climatic changes and their impacts on vegetation in Xinjiang, Central Asia. <i>Science of the Total Environment</i> , 2019, 660, 724-732.	3.9	64
46	The Cognitive Framework of the Interaction between the Physical and Virtual Water and the Strategies for Sustainable Coupling Management. <i>Sustainability</i> , 2019, 11, 2567.	1.6	7
47	Copula-Based Drought Analysis Using Standardized Precipitation Evapotranspiration Index: A Case Study in the Yellow River Basin, China. <i>Water (Switzerland)</i> , 2019, 11, 1298.	1.2	23
48	Effects of different land use types on potential evapotranspiration in the Beijing-Tianjin-Hebei region, North China. <i>Journal of Chinese Geography</i> , 2019, 29, 922-934.	1.5	17
49	The effects of urban water cycle on energy consumption in Beijing, China. <i>Journal of Chinese Geography</i> , 2019, 29, 959-970.	1.5	11
50	China's food security challenge: Effects of food habit changes on requirements for arable land and water. <i>Journal of Cleaner Production</i> , 2019, 229, 739-750.	4.6	97
51	Impact of Climate Variabilities and Human Activities on Surface Water Extents in Reservoirs of Yongding River Basin, China, from 1985 to 2016 Based on Landsat Observations and Time Series Analysis. <i>Remote Sensing</i> , 2019, 11, 560.	1.8	34
52	Irrigation Scheduling Optimization for Cotton Based on the AquaCrop Model. <i>Water Resources Management</i> , 2019, 33, 39-55.	1.9	44
53	Determination of drought limit water level of importing reservoir in inter-basin water transfer project under changing environment. <i>Theoretical and Applied Climatology</i> , 2019, 137, 1529-1539.	1.3	10
54	Multi-scale assessments of droughts: A case study in Xinjiang, China. <i>Science of the Total Environment</i> , 2018, 630, 444-452.	3.9	131

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55	Lateral hydraulic performance of subsurface drip irrigation based on spatial variability of soil: experiment. <i>Agricultural Water Management</i> , 2018, 204, 118-125.	2.4	10
56	Response of vegetation NDVI to climatic extremes in the arid region of Central Asia: a case study in Xinjiang, China. <i>Theoretical and Applied Climatology</i> , 2018, 131, 1503-1515.	1.3	67
57	Recent changes in daily climate extremes in a serious water shortage metropolitan region, a case study in Jing-Jin-Ji of China. <i>Theoretical and Applied Climatology</i> , 2018, 134, 565-584.	1.3	18
58	Estimation of open water evaporation using land-based meteorological data. <i>Theoretical and Applied Climatology</i> , 2018, 134, 397-409.	1.3	3
59	Capability of Remotely Sensed Drought Indices for Representing the Spatio-temporal Variations of the Meteorological Droughts in the Yellow River Basin. <i>Remote Sensing</i> , 2018, 10, 1834.	1.8	37
60	Study on Water Suitability of Apple Plantations in the Loess Plateau under Climate Change. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2504.	1.2	7
61	Impact of large-scale vegetation restoration project on summer land surface temperature on the Loess Plateau, China. <i>Journal of Arid Land</i> , 2018, 10, 892-904.	0.9	12
62	Impact of China's Urbanization on Water Use and Energy Consumption: An Econometric Method and Spatiotemporal Analysis. <i>Water (Switzerland)</i> , 2018, 10, 1323.	1.2	11
63	Trend Analyses of Extreme Precipitation Events in the Yarlung Zangbo River Basin, China Using a High-Resolution Precipitation Product. <i>Sustainability</i> , 2018, 10, 1396.	1.6	21
64	Research on Optimal Water Allocation Based on Water Rights Trade under the Principle of Water Demand Management: A Case Study in Bayannur City, China. <i>Water (Switzerland)</i> , 2018, 10, 863.	1.2	11
65	Spatial-temporal variation and impacts of drought in Xinjiang (Northwest China) during 1961-2015. <i>PeerJ</i> , 2018, 6, e4926.	0.9	28
66	Study of the temporal and spatial patterns of drought in the Yellow River basin based on SPEI. <i>Science China Earth Sciences</i> , 2018, 61, 1098-1111.	2.3	84
67	Assessment of Potential Climate Change Effects on the Rice Yield and Water Footprint in the Nanliujiang Catchment, China. <i>Sustainability</i> , 2018, 10, 242.	1.6	34
68	Conceptual Framework and Computational Research of Hierarchical Residential Household Water Demand. <i>Water (Switzerland)</i> , 2018, 10, 696.	1.2	8
69	The Assessment of Green Water Based on the SWAT Model: A Case Study in the Hai River Basin, China. <i>Water (Switzerland)</i> , 2018, 10, 798.	1.2	15
70	Boosted activity of graphene encapsulated CoFe alloys by blending with activated carbon for oxygen reduction reaction. <i>Biosensors and Bioelectronics</i> , 2018, 117, 802-809.	5.3	37
71	Hydroclimatic changes of Lake Bosten in Northwest China during the last decades. <i>Scientific Reports</i> , 2018, 8, 9118.	1.6	35
72	Waterlogging risk assessment based on self-organizing map (SOM) artificial neural networks: a case study of an urban storm in Beijing. <i>Journal of Mountain Science</i> , 2017, 14, 898-905.	0.8	10

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73	Soil moisture dynamics and implications for irrigation of farmland with a deep groundwater table. <i>Agricultural Water Management</i> , 2017, 192, 138-148.	2.4	20
74	Flood Simulations and Uncertainty Analysis for the Pearl River Basin Using the Coupled Land Surface and Hydrological Model System. <i>Water (Switzerland)</i> , 2017, 9, 391.	1.2	15
75	Assessing Agricultural Drought in the Anthropocene: A Modified Palmer Drought Severity Index. <i>Water (Switzerland)</i> , 2017, 9, 725.	1.2	12
76	Evaluation of Soil Water Availability (SWA) Based on Hydrological Modelling in Arid and Semi-Arid Areas: A Case Study in Handan City, China. <i>Water (Switzerland)</i> , 2016, 8, 360.	1.2	3
77	Impact of Land Use on Frequency of Floods in Yongding River Basin, China. <i>Water (Switzerland)</i> , 2016, 8, 401.	1.2	11
78	Optimal Allocation of Water Resources Based on Water Supply Security. <i>Water (Switzerland)</i> , 2016, 8, 237.	1.2	11
79	Residential water and energy nexus for conservation and management: A case study of Tianjin. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 15919-15929.	3.8	29
80	A Study on Distributed Simulation of Soil Wind Erosion and Its Application to the Tuhaimajia River Basin. <i>Procedia Environmental Sciences</i> , 2010, 2, 1555-1568.	1.3	2