

# Guoqiang Wang

## List of Publications by Year in descending order

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93  
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citations

172386

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197736

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times ranked

2900  
citing authors

#	ARTICLE	IF	CITATIONS
1	Remediation of the soil contaminated by heavy metals with nano-hydroxy iron phosphate coated with fulvic acid. <i>Environmental Technology (United Kingdom)</i> , 2023, 44, 4123-4135.	1.2	1
2	Multi-scale assessment of water security under climate change in North China in the past two decades. <i>Science of the Total Environment</i> , 2022, 805, 150103.	3.9	7
3	Evaluating the risks of spatial and temporal changes in nonpoint source pollution in a Chinese river basin. <i>Science of the Total Environment</i> , 2022, 807, 151726.	3.9	18
4	Modification and upscaling of S&W model based on vertical distributions of soil moisture and vegetation root biomass. <i>Environmental Research</i> , 2022, 208, 112765.	3.7	0
5	Evaluating the influence of different environmental water allocation schemes on the water level of a typical shallow lake in semiarid regions: From the perspective of an integrated modeling approach. <i>Environmental Research</i> , 2022, 212, 112991.	3.7	4
6	A novel ecohydrological model by capturing variations in climate change and vegetation coverage in a semi-arid region of China. <i>Environmental Research</i> , 2022, 211, 113085.	3.7	13
7	Root-zone soil moisture estimation based on remote sensing data and deep learning. <i>Environmental Research</i> , 2022, 212, 113278.	3.7	14
8	Variations and controlling factors of carbon dioxide and methane fluxes in a meadow-rice ecosystem in a semi-arid region. <i>Catena</i> , 2022, 215, 106317.	2.2	6
9	Spatiotemporal variations in evapotranspiration and its influencing factors in the semiarid Hailar river basin, Northern China. <i>Environmental Research</i> , 2022, 212, 113275.	3.7	7
10	Assessing alterations of water level due to environmental water allocation at multiple temporal scales and its impact on water quality in Baiyangdian Lake, China. <i>Environmental Research</i> , 2022, 212, 113366.	3.7	7
11	Divergent Hydrological Responses to Forest Expansion in Dry and Wet Basins of China: Implications for Future Afforestation Planning. <i>Water Resources Research</i> , 2022, 58, .	1.7	20
12	Contribution of nonpoint source pollution from baseflow of a typical agriculture-intensive basin in northern China. <i>Environmental Research</i> , 2022, 212, 113589.	3.7	4
13	Phytoplankton community variation and ecological health assessment for impounded lakes along the eastern route of China's South-to-North Water Diversion Project. <i>Journal of Environmental Management</i> , 2022, 318, 115561.	3.8	20
14	Simulation of evapotranspiration and its components for the mobile dune using an improved dual-source model in semi-arid regions. <i>Journal of Hydrology</i> , 2021, 592, 125796.	2.3	14
15	Preparation of Humic Acid-Cysteine-Codecorated Magnetic Fe <sub>3</sub> O <sub>4</sub> Nanoparticles for Selective and Highly Efficient Adsorption of Mercury. <i>ACS Omega</i> , 2021, 6, 7941-7950.	1.6	17
16	A spatio-temporal cross comparison framework for the accuracies of remotely sensed soil moisture products in a climate-sensitive grassland region. <i>Journal of Hydrology</i> , 2021, 597, 126089.	2.3	16
17	Understanding the water quality change of the Yilong Lake based on comprehensive assessment methods. <i>Ecological Indicators</i> , 2021, 126, 107714.	2.6	35
18	Assessing the spatiotemporal variability of lake water quality using A novel multidimensional shape & Position similarity cloud model. <i>Journal of Hydrology</i> , 2021, 599, 126379.	2.3	16

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19	Calcium-Modified Fe <sub>3</sub> O <sub>4</sub> Nanoparticles Encapsulated in Humic Acid for the Efficient Removal of Heavy Metals from Wastewater. <i>Langmuir</i> , 2021, 37, 10994-11007.	1.6	22
20	Dynamic landscapes and the driving forces in the Yellow River Delta wetland region in the past four decades. <i>Science of the Total Environment</i> , 2021, 787, 147644.	3.9	56
21	The low hydrologic resilience of Asian Water Tower basins to adverse climatic changes. <i>Advances in Water Resources</i> , 2021, 155, 103996.	1.7	18
22	Cellular automata based framework for evaluating mitigation strategies of sponge city. <i>Science of the Total Environment</i> , 2021, 796, 148991.	3.9	9
23	Hydrologic gradient changes of soil respiration in typical steppes of Eurasia. <i>Science of the Total Environment</i> , 2021, 794, 148684.	3.9	5
24	Comparison of an improved Penman-Monteith model and SWH model for estimating evapotranspiration in a meadow wetland in a semiarid region. <i>Science of the Total Environment</i> , 2021, 795, 148736.	3.9	15
25	Effects of ecological protection and restoration on phytoplankton diversity in impounded lakes along the eastern route of China's South-to-North Water Diversion Project. <i>Science of the Total Environment</i> , 2021, 795, 148870.	3.9	18
26	Integrating satellite observations and human water use data to estimate changes in key components of terrestrial water storage in a semi-arid region of North China. <i>Science of the Total Environment</i> , 2020, 698, 134171.	3.9	16
27	Establishing a time series trend structure model to mine potential hydrological information from hydrometeorological time series data. <i>Science of the Total Environment</i> , 2020, 698, 134227.	3.9	17
28	Anthropogenic influences on the water quality of the Baiyangdian Lake in North China over the last decade. <i>Science of the Total Environment</i> , 2020, 701, 134929.	3.9	85
29	Unraveling the sensitivity and nonlinear response of water use efficiency to the water–energy balance and underlying surface condition in a semiarid basin. <i>Science of the Total Environment</i> , 2020, 699, 134405.	3.9	14
30	Distribution of microplastics in surface water of the lower Yellow River near estuary. <i>Science of the Total Environment</i> , 2020, 707, 135601.	3.9	233
31	Evaluating climate and irrigation effects on spatiotemporal variabilities of regional groundwater in an arid area using EOFs. <i>Science of the Total Environment</i> , 2020, 709, 136147.	3.9	14
32	Water supply safety of riverbank filtration wells under the impact of surface water-groundwater interaction: Evidence from long-term field pumping tests. <i>Science of the Total Environment</i> , 2020, 711, 135141.	3.9	38
33	Global convergence but regional disparity in the hydrological resilience of ecosystems and watersheds to drought. <i>Journal of Hydrology</i> , 2020, 591, 125589.	2.3	26
34	Global evapotranspiration hiatus explained by vegetation structural and physiological controls. <i>Ecological Engineering</i> , 2020, 158, 106046.	1.6	4
35	Evaluation of adaptation options for reducing soil erosion due to climate change in the Swat River Basin of Pakistan. <i>Ecological Engineering</i> , 2020, 158, 106017.	1.6	16
36	The stabilization process in the remediation of vanadium-contaminated soil by attapulgite, zeolite and hydroxyapatite. <i>Ecological Engineering</i> , 2020, 156, 105975.	1.6	24

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37	Removal of tri-(2-chloroisopropyl) phosphate (TCPP) by three types of constructed wetlands. <i>Science of the Total Environment</i> , 2020, 749, 141668.	3.9	24
38	Succession of phytoplankton in a shallow lake under the alternating influence of runoff and reverse water transfer. <i>Hydrology Research</i> , 2020, 51, 1077-1090.	1.1	4
39	Identification of regional water security issues in China, using a novel water security comprehensive evaluation model. <i>Hydrology Research</i> , 2020, 51, 854-866.	1.1	8
40	Ecohydrological effects of litter cover on the hillslope-scale infiltration-runoff patterns for layered soil in forest ecosystem. <i>Ecological Engineering</i> , 2020, 155, 105930.	1.6	13
41	Macrozoobenthos variations in shallow connected lakes under the influence of intense hydrologic pulse changes. <i>Journal of Hydrology</i> , 2020, 584, 124755.	2.3	18
42	Trend, seasonality and relationships of aquatic environmental quality indicators and implications: An experience from Songhua River, NE China. <i>Ecological Engineering</i> , 2020, 145, 105706.	1.6	17
43	Different runoff patterns determined by stable isotopes and multi-time runoff responses to precipitation in a seasonal frost area: a case study in the Songhua River basin, northeast China. <i>Hydrology Research</i> , 2020, 51, 1009-1022.	1.1	4
44	Exploring the application of artificial intelligence technology for identification of water pollution characteristics and tracing the source of water quality pollutants. <i>Science of the Total Environment</i> , 2019, 693, 133440.	3.9	102
45	Assessment of lake eutrophication using a novel multidimensional similarity cloud model. <i>Journal of Environmental Management</i> , 2019, 248, 109259.	3.8	48
46	Vertical variations of soil water and its controlling factors based on the structural equation model in a semi-arid grassland. <i>Science of the Total Environment</i> , 2019, 691, 1016-1026.	3.9	49
47	A Combined Method for Estimating Continuous Runoff by Parameter Transfer and Drainage Area Ratio Method in Ungauged Catchments. <i>Water (Switzerland)</i> , 2019, 11, 1104.	1.2	15
48	Model Uncertainty Analysis Methods for Semi-Arid Watersheds with Different Characteristics: A Comparative SWAT Case Study. <i>Water (Switzerland)</i> , 2019, 11, 1177.	1.2	7
49	Spatial heterogeneity of changes in vegetation growth and their driving forces based on satellite observations of the Yarlung Zangbo River Basin in the Tibetan Plateau. <i>Journal of Hydrology</i> , 2019, 574, 324-332.	2.3	63
50	Spatial variation of correlations between vertical soil water and evapotranspiration and their controlling factors in a semi-arid region. <i>Journal of Hydrology</i> , 2019, 574, 53-63.	2.3	80
51	Non-point source pollution risks in a drinking water protection zone based on remote sensing data embedded within a nutrient budget model. <i>Water Research</i> , 2019, 157, 238-246.	5.3	136
52	Modelling above-ground biomass based on vegetation indexes: a modified approach for biomass estimation in semi-arid grasslands. <i>International Journal of Remote Sensing</i> , 2019, 40, 3835-3854.	1.3	46
53	Assessing the Adaptability of Water Resources System in Shandong Province, China, Using a Novel Comprehensive Co-evolution Model. <i>Water Resources Management</i> , 2019, 33, 657-675.	1.9	28
54	Comprehensive assessment of groundwater pollution risk based on HVF model: A case study in Jilin City of northeast China. <i>Science of the Total Environment</i> , 2018, 628-629, 1518-1530.	3.9	29

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55	Evaluation of semiarid grassland degradation in North China from multiple perspectives. <i>Ecological Engineering</i> , 2018, 112, 41-50.	1.6	53
56	How and to what extent does precipitation on multi-temporal scales and soil moisture at different depths determine carbon flux responses in a water-limited grassland ecosystem?. <i>Science of the Total Environment</i> , 2018, 635, 1255-1266.	3.9	65
57	Modified Richards's™ Equation to Improve Estimates of Soil Moisture in Two-Layered Soils after Infiltration. <i>Water (Switzerland)</i> , 2018, 10, 1174.	1.2	14
58	Stratification response of soil water content during rainfall events under different rainfall patterns. <i>Hydrological Processes</i> , 2018, 32, 3128-3139.	1.1	25
59	Controls of carbon flux in a semi-arid grassland ecosystem experiencing wetland loss: Vegetation patterns and environmental variables. <i>Agricultural and Forest Meteorology</i> , 2018, 259, 196-210.	1.9	55
60	Calibrating a hydrological model in a regional river of the Qinghai-Tibet plateau using river water width determined from high spatial resolution satellite images. <i>Remote Sensing of Environment</i> , 2018, 214, 100-114.	4.6	33
61	Hydroclimatic response of evapotranspiration partitioning to prolonged droughts in semiarid grassland. <i>Journal of Hydrology</i> , 2018, 563, 766-777.	2.3	80
62	Historical accumulation and ecological risk assessment of heavy metals in sediments of a drinking water lake. <i>Environmental Science and Pollution Research</i> , 2018, 25, 24882-24894.	2.7	23
63	The Application of Discrete Wavelet Transform with Improved Partial Least-Squares Method for the Estimation of Soil Properties with Visible and Near-Infrared Spectral Data. <i>Remote Sensing</i> , 2018, 10, 867.	1.8	9
64	Global patterns of woody residence time and its influence on model simulation of aboveground biomass. <i>Global Biogeochemical Cycles</i> , 2017, 31, 821-835.	1.9	18
65	Evaluation of modeled global vegetation carbon dynamics: Analysis based on global carbon flux and above-ground biomass data. <i>Ecological Modelling</i> , 2017, 355, 84-96.	1.2	17
66	Current status and associated human health risk of vanadium in soil in China. <i>Chemosphere</i> , 2017, 171, 635-643.	4.2	125
67	Integrated hydrologic and hydrodynamic modeling to assess water exchange in a data-scarce reservoir. <i>Journal of Hydrology</i> , 2017, 555, 15-30.	2.3	33
68	Physically based distributed hydrological model calibration based on a short period of streamflow data: case studies in four Chinese basins. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 251-265.	1.9	37
69	Determination of the factors governing soil erodibility using hyperspectral visible and near-infrared reflectance spectroscopy. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016, 53, 48-63.	1.4	19
70	Impact of land use changes on water quality in headwaters of the Three Gorges Reservoir. <i>Environmental Science and Pollution Research</i> , 2016, 23, 11448-11460.	2.7	48
71	Impact of revised thermal stability on pollutant transport time in a deep reservoir. <i>Journal of Hydrology</i> , 2016, 535, 671-687.	2.3	28
72	Relationship between soil erodibility and modeled infiltration rate in different soils. <i>Journal of Hydrology</i> , 2015, 528, 408-418.	2.3	39

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73	Simple Linear Modeling Approach for Linking Hydrological Model Parameters to the Physical Features of a River Basin. <i>Water Resources Management</i> , 2015, 29, 3265-3289.	1.9	11
74	Integrated Modeling Approach to the Response of Soil Erosion and Sediment Export to Land-Use Change at the Basin Scale. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015, 20, .	0.8	4
75	Modeling the source contribution of heavy metals in surficial sediment and analysis of their historical changes in the vertical sediments of a drinking water reservoir. <i>Journal of Hydrology</i> , 2015, 520, 37-51.	2.3	60
76	Assessment of the Impacts of Land Use Changes on Nonpoint Source Pollution Inputs Upstream of the Three Gorges Reservoir. <i>Scientific World Journal</i> , The, 2014, 2014, 1-15.	0.8	12
77	Sources of Heavy Metals in Surface Sediments and an Ecological Risk Assessment from Two Adjacent Plateau Reservoirs. <i>PLoS ONE</i> , 2014, 9, e102101.	1.1	83
78	The influence of land use patterns on water quality at multiple spatial scales in a river system. <i>Hydrological Processes</i> , 2014, 28, 5259-5272.	1.1	53
79	Role of soil erodibility in affecting available nitrogen and phosphorus losses under simulated rainfall. <i>Journal of Hydrology</i> , 2014, 514, 180-191.	2.3	83
80	Using the SWAT model to assess impacts of land use changes on runoff generation in headwaters. <i>Hydrological Processes</i> , 2014, 28, 1032-1042.	1.1	90
81	Evaluation of Gridded Precipitation Data for Driving SWAT Model in Area Upstream of Three Gorges Reservoir. <i>PLoS ONE</i> , 2014, 9, e112725.	1.1	59
82	Modeling impacts of highly regulated inflow on thermal regime and water age in a shallow reservoir. <i>Journal of Hydroinformatics</i> , 2013, 15, 1312-1325.	1.1	6
83	Role of organic acids in desorption of mercury from contaminated soils in eastern Shandong Province, China. <i>Chinese Geographical Science</i> , 2012, 22, 414-421.	1.2	9
84	Evaluating the effect of land use changes on soil erosion and sediment yield using a grid-based distributed modelling approach. <i>Hydrological Processes</i> , 2012, 26, 3579-3592.	1.1	25
85	Assessment on the function of reservoirs for flood control during typhoon seasons based on a distributed hydrological model. <i>Hydrological Processes</i> , 2011, 25, 2506-2517.	1.1	11
86	Continuous Modeling of Infiltration Rate for the Management of Sprinkler Irrigation. <i>Journal of the Faculty of Agriculture, Kyushu University</i> , 2011, 56, 157-161.	0.1	3
87	Application of a distributed erosion model for the assessment of spatial erosion patterns in the Lushi catchment, China. <i>Environmental Earth Sciences</i> , 2010, 61, 787-797.	1.3	11
88	Grid-based distribution model for simulating runoff and soil erosion from a large-scale river basin. <i>Hydrological Processes</i> , 2010, 24, 641-653.	1.1	10
89	Estimation of Soil Erosion and Sediment Yield During Individual Rainstorms at Catchment Scale. <i>Water Resources Management</i> , 2009, 23, 1447-1465.	1.9	49
90	ESTIMATION OF RIVER SEDIMENT CONCENTRATIONS DURING HYDROLOGIC EVENT. <i>Proceedings of Hydraulic Engineering</i> , 2007, 51, 109-114.	0.0	1

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91	Impacts of climatic factors on runoff coefficients in source regions of the Huanghe River. Chinese Geographical Science, 2007, 17, 047-055.	1.2	15
92	Improved version of BTOPMC model and its application in event-based hydrologic simulations. Journal of Chinese Geography, 2007, 17, 73-84.	1.5	15
93	Scenario optimization of water supplement and outflow management in the Yilong Lake based on the EFDC model. Hydrology Research, 0, , .	1.1	0