Guoqiang Wang

List of Publications by Year
in descending order

93 papers	2,871 citations	172386 29 h-index	197736 49 g-index
95 all docs	95 docs citations	95 times ranked	2900 citing authors

#	Article	IF	Citations
1	Distribution of microplastics in surface water of the lower Yellow River near estuary. Science of the Total Environment, 2020, 707, 135601.	3.9	233
2	Non-point source pollution risks in a drinking water protection zone based on remote sensing data embedded within a nutrient budget model. Water Research, 2019, 157, 238-246.	5.3	136
3	Current status and associated human health risk of vanadium in soil in China. Chemosphere, 2017, 171, 635-643.	4.2	125
4	Exploring the application of artificial intelligence technology for identification of water pollution characteristics and tracing the source of water quality pollutants. Science of the Total Environment, 2019, 693, 133440.	3.9	102
5	Using the SWAT model to assess impacts of land use changes on runoff generation in headwaters. Hydrological Processes, 2014, 28, 1032-1042.	1.1	90
6	Anthropogenic influences on the water quality of the Baiyangdian Lake in North China over the last decade. Science of the Total Environment, 2020, 701, 134929.	3.9	85
7	Sources of Heavy Metals in Surface Sediments and an Ecological Risk Assessment from Two Adjacent Plateau Reservoirs. PLoS ONE, 2014, 9, e102101.	1.1	83
8	Role of soil erodibility in affecting available nitrogen and phosphorus losses under simulated rainfall. Journal of Hydrology, 2014, 514, 180-191.	2.3	83
9	Hydroclimatic response of evapotranspiration partitioning to prolonged droughts in semiarid grassland. Journal of Hydrology, 2018, 563, 766-777.	2.3	80
10	Spatial variation of correlations between vertical soil water and evapotranspiration and their controlling factors in a semi-arid region. Journal of Hydrology, 2019, 574, 53-63.	2.3	80
11	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?. Science of the Total Environment, 2018, 635, 1255-1266.	3.9	65
12	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. Journal of Hydrology, 2019, 574, 324-332.	2.3	63
13	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. Journal of Hydrology, 2015, 520, 37-51.	2.3	60
14	Evaluation of Gridded Precipitation Data for Driving SWAT Model in Area Upstream of Three Gorges Reservoir. PLoS ONE, 2014, 9, e112725.	1.1	59
15	Dynamic landscapes and the driving forces in the Yellow River Delta wetland region in the past four decades. Science of the Total Environment, 2021, 787, 147644.	3.9	56
16	Controls of carbon flux in a semi-arid grassland ecosystem experiencing wetland loss: Vegetation patterns and environmental variables. Agricultural and Forest Meteorology, 2018, 259, 196-210.	1.9	55
17	The influence of land use patterns on water quality at multiple spatial scales in a river system. Hydrological Processes, 2014, 28, 5259-5272.	1.1	53
18	Evaluation of semiarid grassland degradation in North China from multiple perspectives. Ecological Engineering, 2018, 112, 41-50.	1.6	53

#	ARTICLE	IF	CITATIONS
19	Estimation of Soil Erosion and Sediment Yield During Individual Rainstorms at Catchment Scale. Water Resources Management, 2009, 23, 1447-1465.	1.9	49
20	Vertical variations of soil water and its controlling factors based on the structural equation model in a semi-arid grassland. Science of the Total Environment, 2019, 691, 1016-1026.	3.9	49
21	Impact of land use changes on water quality in headwaters of the Three Gorges Reservoir. Environmental Science and Pollution Research, 2016, 23, 11448-11460.	2.7	48
22	Assessment of lake eutrophication using a novel multidimensional similarity cloud model. Journal of Environmental Management, 2019, 248, 109259.	3.8	48
23	Modelling above-ground biomass based on vegetation indexes: a modified approach for biomass estimation in semi-arid grasslands. International Journal of Remote Sensing, 2019, 40, 3835-3854.	1.3	46
24	Relationship between soil erodibility and modeled infiltration rate in different soils. Journal of Hydrology, 2015, 528, 408-418.	2.3	39
25	Water supply safety of riverbank filtration wells under the impact of surface water-groundwater interaction: Evidence from long-term field pumping tests. Science of the Total Environment, 2020, 711, 135141.	3.9	38
26	Physically based distributed hydrological model calibration based on a short period of streamflow data: case studies in four Chinese basins. Hydrology and Earth System Sciences, 2017, 21, 251-265.	1.9	37
27	Understanding the water quality change of the Yilong Lake based on comprehensive assessment methods. Ecological Indicators, 2021, 126, 107714.	2.6	35
28	Integrated hydrologic and hydrodynamic modeling to assess water exchange in a data-scarce reservoir. Journal of Hydrology, 2017, 555, 15-30.	2.3	33
29	Calibrating a hydrological model in a regional river of the Qinghai–Tibet plateau using river water width determined from high spatial resolution satellite images. Remote Sensing of Environment, 2018, 214, 100-114.	4.6	33
30	Comprehensive assessment of groundwater pollution risk based on HVF model: A case study in Jilin City of northeast China. Science of the Total Environment, 2018, 628-629, 1518-1530.	3.9	29
31	Impact of revised thermal stability on pollutant transport time in a deep reservoir. Journal of Hydrology, 2016, 535, 671-687.	2.3	28
32	Assessing the Adaptability of Water Resources System in Shandong Province, China, Using a Novel Comprehensive Co-evolution Model. Water Resources Management, 2019, 33, 657-675.	1.9	28
33	Global convergence but regional disparity in the hydrological resilience of ecosystems and watersheds to drought. Journal of Hydrology, 2020, 591, 125589.	2.3	26
34	Evaluating the effect of land use changes on soil erosion and sediment yield using a grid-based distributed modelling approach. Hydrological Processes, 2012, 26, 3579-3592.	1.1	25
35	Stratification response of soil water content during rainfall events under different rainfall patterns. Hydrological Processes, 2018, 32, 3128-3139.	1.1	25
36	The stabilization process in the remediation of vanadium-contaminated soil by attapulgite, zeolite and hydroxyapatite. Ecological Engineering, 2020, 156, 105975.	1.6	24

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37	Removal of tri-(2-chloroisopropyl) phosphate (TCPP) by three types of constructed wetlands. Science of the Total Environment, 2020, 749, 141668.	3.9	24
38	Historical accumulation and ecological risk assessment of heavy metals in sediments of a drinking water lake. Environmental Science and Pollution Research, 2018, 25, 24882-24894.	2.7	23
39	Calcium-Modified Fe_3O_4 Nanoparticles Encapsulated in Humic Acid for the Efficient Removal of Heavy Metals from Wastewater. Langmuir, 2021, 37, 10994-11007.	1.6	22
40	Divergent Hydrological Responses to Forest Expansion in Dry and Wet Basins of China: Implications for Future Afforestation Planning. Water Resources Research, 2022, 58, .	1.7	20
41	Phytoplankton community variation and ecological health assessment for impounded lakes along the eastern route of China's South-to-North Water Diversion Project. Journal of Environmental Management, 2022, 318, 115561.	3.8	20
42	Determination of the factors governing soil erodibility using hyperspectral visible and near-infrared reflectance spectroscopy. International Journal of Applied Earth Observation and Geoinformation, 2016, 53, 48-63.	1.4	19
43	Global patterns of woody residence time and its influence on model simulation of aboveground biomass. Global Biogeochemical Cycles, 2017, 31, 821-835.	1.9	18
44	Macrozoobenthos variations in shallow connected lakes under the influence of intense hydrologic pulse changes. Journal of Hydrology, 2020, 584, 124755.	2.3	18
45	The low hydrologic resilience of Asian Water Tower basins to adverse climatic changes. Advances in Water Resources, 2021, 155, 103996.	1.7	18
46	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. Science of the Total Environment, 2021, 795, 148870.	3.9	18
47	Evaluating the risks of spatial and temporal changes in nonpoint source pollution in a Chinese river basin. Science of the Total Environment, 2022, 807, 151726.	3.9	18
48	Evaluation of modeled global vegetation carbon dynamics: Analysis based on global carbon flux and above-ground biomass data. Ecological Modelling, 2017, 355, 84-96.	1.2	17
49	Establishing a time series trend structure model to mine potential hydrological information from hydrometeorological time series data. Science of the Total Environment, 2020, 698, 134227.	3.9	17
50	Trend, seasonality and relationships of aquatic environmental quality indicators and implications: An experience from Songhua River, NE China. Ecological Engineering, 2020, 145, 105706.	1.6	17
51	Preparation of Humic Acid/L-Cysteine-Codecorated Magnetic Fe_3O_4 Nanoparticles for Selective and Highly Efficient Adsorption of Mercury. ACS Omega, 2021, 6, 7941-7950.	1.6	17
52	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. Science of the Total Environment, 2020, 698, 134171.	3.9	16
53	Evaluation of adaptation options for reducing soil erosion due to climate change in the Swat River Basin of Pakistan. Ecological Engineering, 2020, 158, 106017.	1.6	16
54	A spatio-temporal cross comparison framework for the accuracies of remotely sensed soil moisture products in a climate-sensitive grassland region. Journal of Hydrology, 2021, 597, 126089.	2.3	16

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55	Assessing the spatiotemporal variability of lake water quality using A novel multidimensional shape â€" Position similarity cloud model. Journal of Hydrology, 2021, 599, 126379.	2.3	16
56	Impacts of climatic factors on runoff coefficients in source regions of the Huanghe River. Chinese Geographical Science, 2007, 17, 047-055.	1.2	15
57	Improved version of BTOPMC model and its application in event-based hydrologic simulations. Journal of Chinese Geography, 2007, 17, 73-84.	1.5	15
58	A Combined Method for Estimating Continuous Runoff by Parameter Transfer and Drainage Area Ratio Method in Ungauged Catchments. Water (Switzerland), 2019, 11, 1104.	1.2	15
59	Comparison of an improved Penman-Monteith model and SWH model for estimating evapotranspiration in a meadow wetland in a semiarid region. Science of the Total Environment, 2021, 795, 148736.	3.9	15
60	Modified Richardsâ€™ Equation to Improve Estimates of Soil Moisture in Two-Layered Soils after Infiltration. Water (Switzerland), 2018, 10, 1174.	1.2	14
61	Unraveling the sensitivity and nonlinear response of water use efficiency to the waterâ€"energy balance and underlying surface condition in a semiarid basin. Science of the Total Environment, 2020, 699, 134405.	3.9	14
62	Evaluating climate and irrigation effects on spatiotemporal variabilities of regional groundwater in an arid area using EOFs. Science of the Total Environment, 2020, 709, 136147.	3.9	14
63	Simulation of evapotranspiration and its components for the mobile dune using an improved dual-source model in semi-arid regions. Journal of Hydrology, 2021, 592, 125796.	2.3	14
64	Root-zone soil moisture estimation based on remote sensing data and deep learning. Environmental Research, 2022, 212, 113278.	3.7	14
65	Ecohydrological effects of litter cover on the hillslope-scale infiltration-runoff patterns for layered soil in forest ecosystem. Ecological Engineering, 2020, 155, 105930.	1.6	13
66	A novel ecohydrological model by capturing variations in climate change and vegetation coverage in a semi-arid region of China. Environmental Research, 2022, 211, 113085.	3.7	13
67	Assessment of the Impacts of Land Use Changes on Nonpoint Source Pollution Inputs Upstream of the Three Gorges Reservoir. Scientific World Journal, The, 2014, 2014, 1-15.	0.8	12
68	Application of a distributed erosion model for the assessment of spatial erosion patterns in the Lushi catchment, China. Environmental Earth Sciences, 2010, 61, 787-797.	1.3	11
69	Assessment on the function of reservoirs for flood control during typhoon seasons based on a distributed hydrological model. Hydrological Processes, 2011, 25, 2506-2517.	1.1	11
70	Simple Linear Modeling Approach for Linking Hydrological Model Parameters to the Physical Features of a River Basin. Water Resources Management, 2015, 29, 3265-3289.	1.9	11
71	Gridâ€"based distribution model for simulating runoff and soil erosion from a largeâ€"scale river basin. Hydrological Processes, 2010, 24, 641-653.	1.1	10
72	Role of organic acids in desorption of mercury from contaminated soils in eastern Shandong Province, China. Chinese Geographical Science, 2012, 22, 414-421.	1.2	9

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73	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. Remote Sensing, 2018, 10, 867.	1.8	9
74	Cellular automata based framework for evaluating mitigation strategies of sponge city. Science of the Total Environment, 2021, 796, 148991.	3.9	9
75	Identification of regional water security issues in China, using a novel water security comprehensive evaluation model. Hydrology Research, 2020, 51, 854-866.	1.1	8
76	Model Uncertainty Analysis Methods for Semi-Arid Watersheds with Different Characteristics: A Comparative SWAT Case Study. Water (Switzerland), 2019, 11, 1177.	1.2	7
77	Multi-scale assessment of water security under climate change in North China in the past two decades. Science of the Total Environment, 2022, 805, 150103.	3.9	7
78	Spatiotemporal variations in evapotranspiration and its influencing factors in the semiarid Hailar river basin, Northern China. Environmental Research, 2022, 212, 113275.	3.7	7
79	Assessing alterations of water level due to environmental water allocation at multiple temporal scales and its impact on water quality in Baiyangdian Lake, China. Environmental Research, 2022, 212, 113366.	3.7	7
80	Modeling impacts of highly regulated inflow on thermal regime and water age in a shallow reservoir. Journal of Hydroinformatics, 2013, 15, 1312-1325.	1.1	6
81	Variations and controlling factors of carbon dioxide and methane fluxes in a meadow-rice ecosystem in a semi-arid region. Catena, 2022, 215, 106317.	2.2	6
82	Hydrologic gradient changes of soil respiration in typical steppes of Eurasia. Science of the Total Environment, 2021, 794, 148684.	3.9	5
83	Integrated Modeling Approach to the Response of Soil Erosion and Sediment Export to Land-Use Change at the Basin Scale. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	0.8	4
84	Global evapotranspiration hiatus explained by vegetation structural and physiological controls. Ecological Engineering, 2020, 158, 106046.	1.6	4
85	Succession of phytoplankton in a shallow lake under the alternating influence of runoff and reverse water transfer. Hydrology Research, 2020, 51, 1077-1090.	1.1	4
86	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. Hydrology Research, 2020, 51, 1009-1022.	1.1	4
87	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. Environmental Research, 2022, 212, 112991.	3.7	4
88	Contribution of nonpoint source pollution from baseflow of a typical agriculture-intensive basin in northern China. Environmental Research, 2022, 212, 113589.	3.7	4
89	Continuous Modeling of Infiltration Rate for the Management of Sprinkler Irrigation. Journal of the Faculty of Agriculture, Kyushu University, 2011, 56, 157-161.	0.1	3
90	ESTIMATION OF RIVER SEDIMENT CONCENTRATIONS DURING HYDROLOGIC EVENT. Proceedings of Hydraulic Engineering, 2007, 51, 109-114.	0.0	1

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91	Remediation of the soil contaminated by heavy metals with nano-hydroxy iron phosphate coated with fulvic acid. Environmental Technology (United Kingdom), 2023, 44, 4123-4135.	1.2	1
92	Modification and upscaling of S–W model based on vertical distributions of soil moisture and vegetation root biomass. Environmental Research, 2022, 208, 112765.	3.7	0
93	Scenario optimization of water supplement and outflow management in the Yilong Lake based on the EFDC model. Hydrology Research, 0, , .	1.1	0