

Shanghong Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,364
citations

361296

20
h-index

206029

48
g-index

50
all docs

50
docs citations

50
times ranked

2701
citing authors

#	ARTICLE	IF	CITATIONS
1	Ecological risk assessment of heavy metals in sediment and human health risk assessment of heavy metals in fishes in the middle and lower reaches of the Yangtze River basin. <i>Environmental Pollution</i> , 2011, 159, 2575-2585.	3.7	1,091
2	Health risk assessment of heavy metals in fish and accumulation patterns in food web in the upper Yangtze River, China. <i>Ecotoxicology and Environmental Safety</i> , 2017, 145, 295-302.	2.9	169
3	An urban storm-inundation simulation method based on GIS. <i>Journal of Hydrology</i> , 2014, 517, 260-268.	2.3	123
4	The influence of changes in land use and landscape patterns on soil erosion in a watershed. <i>Science of the Total Environment</i> , 2017, 574, 34-45.	3.9	106
5	Effects of ecological flow release patterns on water quality and ecological restoration of a large shallow lake. <i>Journal of Cleaner Production</i> , 2018, 174, 577-590.	4.6	78
6	How land use change contributes to reducing soil erosion in the Jialing River Basin, China. <i>Agricultural Water Management</i> , 2014, 133, 65-73.	2.4	47
7	Impacts on watershed-scale runoff and sediment yield resulting from synergetic changes in climate and vegetation. <i>Catena</i> , 2019, 179, 129-138.	2.2	46
8	Impacts of climate and planting structure changes on watershed runoff and nitrogen and phosphorus loss. <i>Science of the Total Environment</i> , 2020, 706, 134489.	3.9	45
9	Water and sediment yield response to extreme rainfall events in a complex large river basin: A case study of the Yellow River Basin, China. <i>Journal of Hydrology</i> , 2021, 597, 126183.	2.3	42
10	Parallel computation of a dam-break flow model using OpenMP on a multi-core computer. <i>Journal of Hydrology</i> , 2014, 512, 126-133.	2.3	41
11	Calculation and visualization of flood inundation based on a topographic triangle network. <i>Journal of Hydrology</i> , 2014, 509, 406-415.	2.3	38
12	Evaluation method for regional water cycle health based on nature-society water cycle theory. <i>Journal of Hydrology</i> , 2017, 551, 352-364.	2.3	35
13	Evaluation of water cycle health status based on a cloud model. <i>Journal of Cleaner Production</i> , 2020, 245, 118850.	4.6	35
14	Impact of anthropogenic activities on the sediment microbial communities of Baiyangdian shallow lake. <i>International Journal of Sediment Research</i> , 2020, 35, 180-192.	1.8	30
15	Distributed hierarchical evaluation and carrying capacity models for water resources based on optimal water cycle theory. <i>Ecological Indicators</i> , 2019, 101, 432-443.	2.6	29
16	An integrated environmental decision support system for water pollution control based on TMDL – A case study in the Beiyun River watershed. <i>Journal of Environmental Management</i> , 2015, 156, 31-40.	3.8	28
17	Navigation risk assessment method based on flow conditions: A case study of the river reach between the Three Gorges Dam and the Gezhouba Dam. <i>Ocean Engineering</i> , 2019, 175, 71-79.	1.9	28
18	Hydraulic Principles of the 2,268-Year-Old Dujiangyan Project in China. <i>Journal of Hydraulic Engineering</i> , 2013, 139, 538-546.	0.7	27

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19	Assessment of Climate Change and Associated Vegetation Cover Change on Watershed-Scale Runoff and Sediment Yield. <i>Water (Switzerland)</i> , 2019, 11, 1373.	1.2	27
20	A real-time interactive simulation framework for watershed decision making using numerical models and virtual environment. <i>Journal of Hydrology</i> , 2013, 493, 95-104.	2.3	24
21	The dynamic capacity calculation method and the flood control ability of the Three Gorges Reservoir. <i>Journal of Hydrology</i> , 2017, 555, 361-370.	2.3	21
22	Spatio-temporal variations of benthic macroinvertebrates and the driving environmental variables in a shallow lake. <i>Ecological Indicators</i> , 2020, 110, 105948.	2.6	19
23	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
24	Multi-Water Source Joint Scheduling Model Using a Refined Water Supply Network: Case Study of Tianjin. <i>Water (Switzerland)</i> , 2018, 10, 1580.	1.2	16
25	Flood control ability of river-type reservoirs using stochastic flood simulation and dynamic capacity flood regulation. <i>Journal of Cleaner Production</i> , 2020, 257, 120809.	4.6	16
26	Spatial distributions of nitrogen and phosphorus losses in a basin and responses to best management practices â€” Jialing River Basin case study. <i>Agricultural Water Management</i> , 2021, 255, 107048.	2.4	16
27	Impact of dam construction on the spawning grounds of the four major Chinese carps in the Three Gorges Reservoir. <i>Journal of Hydrology</i> , 2022, 609, 127694.	2.3	16
28	Study of the flood control scheduling scheme for the Three Gorges Reservoir in a catastrophic flood. <i>Hydrological Processes</i> , 2018, 32, 1625-1634.	1.1	13
29	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
30	Definition and calculation of hierarchical ecological water requirement in areas with substantial human activityâ€”A case study of the Beijingâ€”Tianjin-Hebei region. <i>Ecological Indicators</i> , 2022, 138, 108740.	2.6	11
31	Implementation methods and applications of flow visualization in a watershed simulation platform. <i>Advances in Engineering Software</i> , 2017, 112, 66-75.	1.8	10
32	Impacts of Rainfall, Soil Type, and Land-Use Change on Soil Erosion in the Liusha River Watershed. <i>Journal of Hydrologic Engineering - ASCE</i> , 2017, 22, .	0.8	10
33	Velocity and turbulence evolution in a flexible vegetation canopy in open channel flows. <i>Journal of Cleaner Production</i> , 2020, 270, 122543.	4.6	10
34	Parallel Computation of a Dam-Break Flow Model Using OpenACC Applications. <i>Journal of Hydraulic Engineering</i> , 2017, 143, .	0.7	9
35	Three-Dimensional Waterway System for Ship Navigation Based on Integrated Virtual Waterway and Flow Simulation. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2017, 143, .	0.5	8
36	Flood Control Capacity of the Three Gorges Project for Different Frequency Floods. <i>Environmental Engineering Science</i> , 2021, 38, 1195-1205.	0.8	8

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37	Joint flood control scheduling strategy of large cascade reservoirs: A case study of the cascade reservoirs in the upper reaches of the Yangtze River in China. <i>Journal of Flood Risk Management</i> , 2022, 15, .	1.6	8
38	CaO-Assisted Alkaline Liquid Waste Drives Corn Stalk Chemical Looping Gasification for Hydrogen Production. <i>ACS Omega</i> , 2020, 5, 24403-24411.	1.6	7
39	Flow simulation and visualization in a three-dimensional shipping information system. <i>Advances in Engineering Software</i> , 2016, 96, 29-37.	1.8	6
40	A One-Dimensional Hydrodynamic and Water Quality Model for a Water Transfer Project with Multihydraulic Structures. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-11.	0.6	6
41	Response mechanisms of sediment microbial communities in different habitat types in a shallow lake. <i>Ecosphere</i> , 2019, 10, e02948.	1.0	6
42	Implementation of a Local Time Stepping Algorithm and Its Acceleration Effect on Two-Dimensional Hydrodynamic Models. <i>Water (Switzerland)</i> , 2020, 12, 1148.	1.2	6
43	Synergistic Effects of Changes in Climate and Vegetation on Basin Runoff. <i>Water Resources Management</i> , 2022, 36, 3265-3281.	1.9	5
44	Effect of Frequency of Multi-Source Water Supply on Regional Guarantee Rate of Water Use. <i>Water (Switzerland)</i> , 2019, 11, 1356.	1.2	4
45	Implementation and efficiency analysis of parallel computation using OpenACC: a case study using flow field simulations. <i>International Journal of Computational Fluid Dynamics</i> , 2016, 30, 79-88.	0.5	3
46	Comparison of Three Different Parallel Computation Methods for a Two-Dimensional Dam-Break Model. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-12.	0.6	3
47	Flood-control ability of the Three Gorges Reservoir and upstream cascade reservoirs during catastrophic flooding. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2021, , .	0.3	3
48	Effects of diameter, density, and adhesiveness on settling velocity and drag coefficient of two sturgeon species eggs in flow. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2022, 60, 229-239.	0.7	3
49	Impact of Land Use Change on Watershed Soil Erosion Under Different Development Scenarios. <i>Environmental Engineering Science</i> , 2022, 39, 379-392.	0.8	1
50	Parallel Calculation Method for Urban Two-Dimensional Rainfall Flood Model Based on Compute Unified Device Architecture. <i>Environmental Engineering Science</i> , 2022, 39, 685-696.	0.8	1