Tian Zhou

List of Publications by Year
in descending order

33 papers	1,525 citations	430442 18 h-index	395343 33 g-index
49 all docs	49 docs citations	49 times ranked	2650 citing authors

#	Article	IF	Citations
1	Advances in hexagon mesh-based flow direction modeling. Advances in Water Resources, 2022, 160, 104099.	1.7	9
2	Forest Canopy Density Effects on Snowpack Across the Climate Gradients of the Western United States Mountain Ranges. Water Resources Research, 2022, 58, .	1.7	16
3	A new large-scale suspended sediment model and its application over the United States. Hydrology and Earth System Sciences, 2022, 26, 665-688.	1.9	14
4	Description of historical and future projection simulations by the global coupled E3SMv1.0 model as used in CMIP6. Geoscientific Model Development, 2022, 15, 3941-3967.	1.3	1
5	Validation of the Community Land Model Version 5 Over the Contiguous United States (CONUS) Using In Situ and Remote Sensing Data Sets. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033539.	1.2	19
6	Impact of climate change on water availability and its propagation through the Western U.S. power grid. Applied Energy, 2020, 276, 115467.	5.1	38
7	The DOE E3SM v1.1 Biogeochemistry Configuration: Description and Simulated Ecosystemâ€Climate Responses to Historical Changes in Forcing. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001766.	1.3	65
8	Global Irrigation Characteristics and Effects Simulated by Fully Coupled Land Surface, River, and Water Management Models in E3SM. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002069.	1.3	16
9	The Straightening of a River Meander Leads to Extensive Losses in Flow Complexity and Ecosystem Services. Water (Switzerland), 2020, 12, 1680.	1.2	15
10	The DOE E3SM Coupled Model Version 1: Description and Results at High Resolution. Journal of Advances in Modeling Earth Systems, 2019, 11, 4095-4146.	1.3	112
11	Flood Inundation Generation Mechanisms and Their Changes in 1953â€“2004 in Global Major River Basins. Journal of Geophysical Research D: Atmospheres, 2019, 124, 11672-11692.	1.2	18
12	The DOE E3SM Coupled Model Version 1: Overview and Evaluation at Standard Resolution. Journal of Advances in Modeling Earth Systems, 2019, 11, 2089-2129.	1.3	404
13	Roles of Irrigation and Reservoir Operations in Modulating Terrestrial Water and Energy Budgets in the Indian Subcontinental River Basins. Journal of Geophysical Research D: Atmospheres, 2019, 124, 12915-12936.	1.2	19
14	Strong Influence of Irrigation on Water Budget and Land Surface Temperature in Indian Subcontinental River Basins. Journal of Geophysical Research D: Atmospheres, 2019, 124, 1449-1462.	1.2	56
15	Opportunities for Joint Waterâ€“Energy Management: Sensitivity of the 2010 Western U.S. Electricity Grid Operations to Climate Oscillations. Bulletin of the American Meteorological Society, 2018, 99, 299-312.	1.7	29
16	Sensitivity of Regulated Flow Regimes to Climate Change in the Western United States. Journal of Hydrometeorology, 2018, 19, 499-515.	0.7	22
17	Riverbed Hydrologic Exchange Dynamics in a Large Regulated River Reach. Water Resources Research, 2018, 54, 2715-2730.	1.7	17
18	Non-stationary hydropower generation projections constrained by environmental and electricity grid operations over the western United States. Environmental Research Letters, 2018, 13, 074035.	2.2	21

#	Article	IF	Citations
19	A Climate Data Record (CDR) for the global terrestrial water budget: 1984â€“2010. Hydrology and Earth System Sciences, 2018, 22, 241-263.	1.9	91
20	Evapotranspiration simulations in ISIMIP2aâ€"Evaluation of spatio-temporal characteristics with a comprehensive ensemble of independent datasets. Environmental Research Letters, 2018, 13, 075001.	2.2	38
21	Evaluating the functionality and streamflow impacts of explicitly modelling forestâ€“snow interactions and canopy gaps in a distributed hydrologic model. Hydrological Processes, 2018, 32, 2128-2140.	1.1	49
22	Modulating factors of hydrologic exchanges in a largeâ€scale river reach: Insights from threeâ€dimensional computational fluid dynamics simulations. Hydrological Processes, 2018, 32, 3446-3463.	1.1	11
23	0Â°C is better?- Thawing temperature optimization study for cancer cryoablation in a mouse model with green fluorescent protein-labeled Lewis lung cancer. Cryobiology, 2017, 75, 80-87.	0.3	6
24	A New Approach to Quantify Shallow Water Hydrologic Exchanges in a Large Regulated River Reach. Water (Switzerland), 2017, 9, 703.	1.2	12
25	Coupling a three-dimensional subsurface flow and transport model with a land surface model to simulate streamâ€“aquiferâ€“land interactions (CPÂv1.0). Geoscientific Model Development, 2017, 10, 4539-4562.	1.3	25
26	Understanding and seasonal forecasting of hydrological drought in the Anthropocene. Hydrology and Earth System Sciences, 2017, 21, 5477-5492.	1.9	92
27	The Contribution of Reservoirs to Global Land Surface Water Storage Variations*. Journal of Hydrometeorology, 2016, 17, 309-325.	0.7	108
28	Effects of G.H.3. On mental symptoms and health-related quality of life among older adults: results of a three-month follow-Up study in Shanghai, China. Nutrition Journal, 2015, 15, 9.	1.5	6
29	Evaluation of Real-Time Satellite Precipitation Data for Global Drought Monitoring. Journal of Hydrometeorology, 2014, 15, 1651-1660.	0.7	27
30	A Prototype Global Drought Information System Based on Multiple Land Surface Models. Journal of Hydrometeorology, 2014, 15, 1661-1676.	0.7	56
31	Reshaping of the hyporheic zone beneath river restoration structures: Flume and hydrodynamic experiments. Water Resources Research, 2013, 49, 5009-5020.	1.7	42
32	Meander hydrodynamics initiated by river restoration deflectors. Hydrological Processes, 2012, 26, 3378-3392.	1.1	20
33	The Role of Groundwater Withdrawals on River Regulation: Example from the Columbia River Basin. Water Resources Research, 0, , .	1.7	1