

Huilin Gao

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

2,346
citations

201674

27
h-index

302126

39
g-index

45
all docs

45
docs citations

45
times ranked

3148
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaporative water loss of 1.42 million global lakes. <i>Nature Communications</i> , 2022, 13, .	12.8	49
2	Constructing Reservoir Areaâ€œVolumeâ€œElevation Curve from TanDEM-X DEM Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 2249-2257.	4.9	12
3	The implications of future climate change on the blue water footprint of hydropower in the contiguous US [*]. <i>Environmental Research Letters</i> , 2021, 16, 034003.	5.2	10
4	NASAâ€™s MODIS/VIIRS Global Water Reservoir Product Suite from Moderate Resolution Remote Sensing Data. <i>Remote Sensing</i> , 2021, 13, 565.	4.0	12
5	A semi-empirical scheme for bathymetric mapping in shallow water by ICESat-2 and Sentinel-2: A case study in the South China Sea. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2021, 178, 1-19.	11.1	47
6	Evaluating precipitation, streamflow, and inundation forecasting skills during extreme weather events: A case study for an urban watershed. <i>Journal of Hydrology</i> , 2021, 603, 127126.	5.4	11
7	Estimating lake temperature profile and evaporation losses by leveraging MODIS LST data. <i>Remote Sensing of Environment</i> , 2020, 251, 112104.	11.0	32
8	Unprecedented Drought Challenges for Texas Water Resources in a Changing Climate: What Do Researchers and Stakeholders Need to Know?. <i>Earth's Future</i> , 2020, 8, e2020EF001552.	6.3	38
9	A high-resolution bathymetry dataset for global reservoirs using multi-source satellite imagery and altimetry. <i>Remote Sensing of Environment</i> , 2020, 244, 111831.	11.0	56
10	Quantifying the effects of urbanization on floods in a changing environment to promote water security â€” A case study of two adjacent basins in Texas. <i>Journal of Hydrology</i> , 2020, 589, 125154.	5.4	31
11	Using the Digital Elevation Model (DEM) to Improve the Spatial Coverage of the MODIS Based Reservoir Monitoring Network in South Asia. <i>Remote Sensing</i> , 2020, 12, 745.	4.0	11
12	Partitioning the contributions of glacier melt and precipitation to the 1971â€œ2010 runoff increases in a headwater basin of the Tarim River. <i>Journal of Hydrology</i> , 2020, 583, 124579.	5.4	40
13	Impacts of urbanization, antecedent rainfall event, and cyclone tracks on extreme floods at Houston reservoirs during Hurricane Harvey. <i>Environmental Research Letters</i> , 2020, 15, 124012.	5.2	7
14	Deriving High-Resolution Reservoir Bathymetry From ICESat-2 Prototype Photon-Counting Lidar and Landsat Imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 7883-7893.	6.3	66
15	Potential influence of the Deepwater Horizon oil spill on phytoplankton primary productivity in the northern Gulf of Mexico. <i>Environmental Research Letters</i> , 2019, 14, 094018.	5.2	18
16	Towards Global Hydrological Drought Monitoring Using Remotely Sensed Reservoir Surface Area. <i>Geophysical Research Letters</i> , 2019, 46, 13027-13035.	4.0	16
17	Estimating reservoir evaporation losses for the United States: Fusing remote sensing and modeling approaches. <i>Remote Sensing of Environment</i> , 2019, 226, 109-124.	11.0	97
18	A modeling framework for evaluating the drought resilience of a surface water supply system under non-stationarity. <i>Journal of Hydrology</i> , 2018, 563, 22-32.	5.4	24

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19	Automatic Correction of Contaminated Images for Assessment of Reservoir Surface Area Dynamics. <i>Geophysical Research Letters</i> , 2018, 45, 6092-6099.	4.0	79
20	The future of Earth observation in hydrology. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 3879-3914.	4.9	313
21	Corrigendum to "Development and Application of Improved Long-Term Datasets of Surface Hydrology for Texas". <i>Advances in Meteorology</i> , 2017, 2017, 1-4.	1.6	0
22	Development and Application of Improved Long-Term Datasets of Surface Hydrology for Texas. <i>Advances in Meteorology</i> , 2017, 2017, 1-13.	1.6	5
23	A reservoir storage estimation algorithm using digital elevation data and image classifications. , 2017, , .		1
24	Interannual Variation of the Surface Temperature of Tropical Forests from Satellite Observations. <i>Advances in Meteorology</i> , 2016, 2016, 1-11.	1.6	4
25	Remote sensing of spatial-temporal variations of Chlorophyll-a in Galveston Bay, Texas. , 2016, , .		2
26	Effects of Urbanization and Climate Change on Peak Flows over the San Antonio River Basin, Texas. <i>Journal of Hydrometeorology</i> , 2016, 17, 2371-2389.	1.9	45
27	A novel algorithm for monitoring reservoirs under all-weather conditions at a high temporal resolution through passive microwave remote sensing. <i>Geophysical Research Letters</i> , 2016, 43, 8052-8059.	4.0	14
28	Integrating a reservoir regulation scheme into a spatially distributed hydrological model. <i>Advances in Water Resources</i> , 2016, 98, 16-31.	3.8	94
29	Impacts of a Rapidly Declining Mountain Snowpack on Streamflow Timing in Canada's Fraser River Basin. <i>Scientific Reports</i> , 2016, 6, 19299.	3.3	35
30	The Contribution of Reservoirs to Global Land Surface Water Storage Variations*. <i>Journal of Hydrometeorology</i> , 2016, 17, 309-325.	1.9	108
31	Satellite Remote Sensing of Lakes and Wetlands. , 2016, , 57-72.		2
32	Modeling dry and wet deposition of sulfate, nitrate, and ammonium ions in Jiuzhaigou National Nature Reserve, China using a source-oriented CMAQ model: Part I. Base case model results. <i>Science of the Total Environment</i> , 2015, 532, 831-839.	8.0	40
33	Satellite remote sensing of large lakes and reservoirs: from elevation and area to storage. <i>Wiley Interdisciplinary Reviews: Water</i> , 2015, 2, 147-157.	6.5	84
34	Monitoring reservoir storage in South Asia from multisatellite remote sensing. <i>Water Resources Research</i> , 2014, 50, 8927-8943.	4.2	99
35	On the Changing Contribution of Snow to the Hydrology of the Fraser River Basin, Canada. <i>Journal of Hydrometeorology</i> , 2014, 15, 1344-1365.	1.9	34
36	Modeling the Effects of Groundwater-Fed Irrigation on Terrestrial Hydrology over the Conterminous United States. <i>Journal of Hydrometeorology</i> , 2014, 15, 957-972.	1.9	116

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37	A Prototype Global Drought Information System Based on Multiple Land Surface Models. Journal of Hydrometeorology, 2014, 15, 1661-1676.	1.9	56
38	Global monitoring of large reservoir storage from satellite remote sensing. Water Resources Research, 2012, 48, .	4.2	256
39	Potential Utility of the Real-Time TMPA-RT Precipitation Estimates in Streamflow Prediction. Journal of Hydrometeorology, 2011, 12, 444-455.	1.9	54
40	Estimating the water budget of major US river basins via remote sensing. International Journal of Remote Sensing, 2010, 31, 3955-3978.	2.9	116
41	Quantifying uncertainty in a remote sensing-based estimate of evapotranspiration over continental USA. International Journal of Remote Sensing, 2010, 31, 3821-3865.	2.9	96
42	Dynamics of Terrestrial Water Storage Change from Satellite and Surface Observations and Modeling. Journal of Hydrometeorology, 2010, 11, 156-170.	1.9	63
43	A Practical Method for Retrieving Land Surface Temperature From AMSR-E Over the Amazon Forest. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 193-199.	6.3	53