

# Huilin Gao

## List of Publications by Year in descending order

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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	The future of Earth observation in hydrology. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 3879-3914.	4.9	313
2	Global monitoring of large reservoir storage from satellite remote sensing. <i>Water Resources Research</i> , 2012, 48, .	4.2	256
3	Estimating the water budget of major US river basins via remote sensing. <i>International Journal of Remote Sensing</i> , 2010, 31, 3955-3978.	2.9	116
4	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
5	The Contribution of Reservoirs to Global Land Surface Water Storage Variations*. <i>Journal of Hydrometeorology</i> , 2016, 17, 309-325.	1.9	108
6	Monitoring reservoir storage in South Asia from multisatellite remote sensing. <i>Water Resources Research</i> , 2014, 50, 8927-8943.	4.2	99
7	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
8	Quantifying uncertainty in a remote sensing-based estimate of evapotranspiration over continental USA. <i>International Journal of Remote Sensing</i> , 2010, 31, 3821-3865.	2.9	96
9	Integrating a reservoir regulation scheme into a spatially distributed hydrological model. <i>Advances in Water Resources</i> , 2016, 98, 16-31.	3.8	94
10	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
11	Automatic Correction of Contaminated Images for Assessment of Reservoir Surface Area Dynamics. <i>Geophysical Research Letters</i> , 2018, 45, 6092-6099.	4.0	79
12	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
13	Dynamics of Terrestrial Water Storage Change from Satellite and Surface Observations and Modeling. <i>Journal of Hydrometeorology</i> , 2010, 11, 156-170.	1.9	63
14	A Prototype Global Drought Information System Based on Multiple Land Surface Models. <i>Journal of Hydrometeorology</i> , 2014, 15, 1661-1676.	1.9	56
15	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
16	Potential Utility of the Real-Time TMPA-RT Precipitation Estimates in Streamflow Prediction. <i>Journal of Hydrometeorology</i> , 2011, 12, 444-455.	1.9	54
17	A Practical Method for Retrieving Land Surface Temperature From AMSR-E Over the Amazon Forest. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 193-199.	6.3	53
18	Evaporative water loss of 1.42 million global lakes. <i>Nature Communications</i> , 2022, 13, .	12.8	49

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19	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
20	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
21	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
22	Partitioning the contributions of glacier melt and precipitation to the 1971â€“2010 runoff increases in a headwater basin of the Tarim River. <i>Journal of Hydrology</i> , 2020, 583, 124579.	5.4	40
23	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
24	Impacts of a Rapidly Declining Mountain Snowpack on Streamflow Timing in Canadaâ€™s Fraser River Basin. <i>Scientific Reports</i> , 2016, 6, 19299.	3.3	35
25	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
26	Estimating lake temperature profile and evaporation losses by leveraging MODIS LST data. <i>Remote Sensing of Environment</i> , 2020, 251, 112104.	11.0	32
27	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
28	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
29	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
30	Towards Global Hydrological Drought Monitoring Using Remotely Sensed Reservoir Surface Area. <i>Geophysical Research Letters</i> , 2019, 46, 13027-13035.	4.0	16
31	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
32	Constructing Reservoir Areaâ€“Volumeâ€“Elevation 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
33	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
34	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
35	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
36	The implications of future climate change on the blue water footprint of hydropower in the contiguous US <sup>*</sup>. <i>Environmental Research Letters</i> , 2021, 16, 034003.	5.2	10

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37	Impacts of urbanization, antecedent rainfall event, and cyclone tracks on extreme floods at Houston reservoirs during Hurricane Harvey. Environmental Research Letters, 2020, 15, 124012.	5.2	7
38	Development and Application of Improved Long-Term Datasets of Surface Hydrology for Texas. Advances in Meteorology, 2017, 2017, 1-13.	1.6	5
39	Interannual Variation of the Surface Temperature of Tropical Forests from Satellite Observations. Advances in Meteorology, 2016, 2016, 1-11.	1.6	4
40	Remote sensing of spatial-temporal variations of Chlorophyll-a in Galveston Bay, Texas. , 2016, , .		2
41	Satellite Remote Sensing of Lakes and Wetlands. , 2016, , 57-72.		2
42	A reservoir storage estimation algorithm using digital elevation data and image classifications. , 2017, , .		1
43	Corrigendum to "Development and Application of Improved Long-Term Datasets of Surface Hydrology for Texas". Advances in Meteorology, 2017, 2017, 1-4.	1.6	0