Mark A Trigg

List of Publications by Year
in descending order

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46 papers	2,346 citations	257450 24 h-index	214800 47 g-index
78 all docs	78 docs citations	78 times ranked	2709 citing authors

#	Article	IF	Citations
1	Development of a global ~90m water body map using multi-temporal Landsat images. Remote Sensing of Environment, 2015, 171, 337-351.	11.0	250
2	Usefulness and limitations of global flood risk models. Nature Climate Change, 2015, 5, 712-715.	18.8	210
3	Development of the Global Width Database for Large Rivers. Water Resources Research, 2014, 50, 3467-3480.	4.2	190
4	Amazon flood wave hydraulics. Journal of Hydrology, 2009, 374, 92-105.	5.4	147
5	The credibility challenge for global fluvial flood risk analysis. Environmental Research Letters, 2016, 11, 094014.	5.2	139
6	SRTM vegetation removal and hydrodynamic modeling accuracy. Water Resources Research, 2013, 49, 5276-5289.	4.2	105
7	Parallelisation of storage cell flood models using OpenMP. Environmental Modelling and Software, 2009, 24, 872-877.	4.5	96
8	Estimating River Depth From Remote Sensing Swath Interferometry Measurements of River Height, Slope, and Width. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2010, 3, 20-31.	4.9	94
9	A global network for operational flood risk reduction. Environmental Science and Policy, 2018, 84, 149-158.	4.9	89
10	Hydraulic characterization of the middle reach of the Congo River. Water Resources Research, 2013, 49, 5059-5070.	4.2	86
11	Modelling of flood hazard extent in data sparse areas: a case study of the Oti River basin, West Africa. Journal of Hydrology: Regional Studies, 2017, 10, 122-132.	2.4	80
12	Floodplain channel morphology and networks of the middle Amazon River. Water Resources Research, 2012, 48, .	4.2	76
13	Efficient incorporation of channel cross-section geometry uncertainty into regional and global scale flood inundation models. Journal of Hydrology, 2015, 529, 169-183.	5.4	76
14	Surface water connectivity dynamics of a large scale extreme flood. Journal of Hydrology, 2013, 505, 138-149.	5.4	67
15	A first collective validation of global fluvial flood models for major floods in Nigeria and Mozambique. Environmental Research Letters, 2018, 13, 104007.	5.2	66
16	Geodetic corrections to Amazon River water level gauges using ICESat altimetry. Water Resources Research, 2012, 48, .	4.2	51
17	Improving the TanDEM-X Digital Elevation Model for flood modelling using flood extents from Synthetic Aperture Radar images. Remote Sensing of Environment, 2016, 173, 15-28.	11.0	48
18	Perspectives on Open Access High Resolution Digital Elevation Models to Produce Global Flood Hazard Layers. Frontiers in Earth Science, 2016, 3, .	1.8	44

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19	Assessment of basin-scale soil erosion within the Congo River Basin: A review. Catena, 2019, 178, 64-76.	5.0	44
20	The dynamics of Earth's surface water. Nature, 2016, 540, 348-349.	27.8	40
21	Water Resources in Africa under Global Change: Monitoring Surface Waters from Space. Surveys in Geophysics, 2023, 44, 43-93.	4.6	38
22	Validation of River Flows in HadGEM1 and HadCM3 with the TRIP River Flow Model. Journal of Hydrometeorology, 2011, 12, 1157-1180.	1.9	33
23	Greater Water Surface Variability Revealed by New Congo River Field Data: Implications for Satellite Altimetry Measurements of Large Rivers. Geophysical Research Letters, 2019, 46, 8093-8101.	4.0	30
24	Advancing global flood hazard simulations by improving comparability, benchmarking, and integration of global flood models. Environmental Research Letters, 2019, 14, 034001.	5.2	29
25	Estimating seepage flux from ephemeral stream channels using surface water and groundwater level data. Water Resources Research, 2014, 50, 1474-1489.	4.2	24
26	Recent Budget of Hydroclimatology and Hydrosedimentology of the Congo River in Central Africa. Water (Switzerland), 2020, 12, 2613.	2.7	20
27	Groundwater fluxes in a shallow seasonal wetland pond: The effect of bathymetric uncertainty on predicted water and solute balances. Journal of Hydrology, 2014, 517, 901-912.	5.4	17
28	A review of modelling methodologies for flood source area (FSA) identification. Natural Hazards, 2021, 107, 1047-1068.	3.4	15
29	Capacity Building in the Congo Basin: Rich Resources Requiring Sustainable Development. One Earth, 2020, 2, 207-210.	6.8	13
30	Evaluating a new method of remote sensing for flood mapping in the urban and peri-urban areas: Applied to Addis Ababa and the Akaki catchment in Ethiopia. Natural Hazards Research, 2022, 2, 97-110.	3.8	13
31	Water availability and agricultural demand: An assessment framework using global datasets in a data scarce catchment, Rokel-Seli River, Sierra Leone. Journal of Hydrology: Regional Studies, 2016, 8, 222-234.	2.4	12
32	Global flood exposure from different sized rivers. Natural Hazards and Earth System Sciences, 2021, 21, 2829-2847.	3.6	12
33	Progress Toward Hyperresolution Models of Global Flood Hazard. , 2018, , 211-232.		11
34	The Role of Global Data Sets for Riverine Flood Risk Management at National Scales. Water Resources Research, 2022, 58, .	4.2	10
35	Videogames, visuality and screens: reconstructing the Amazon in physical geographical knowledge. Area, 2009, 41, 464-474.	1.6	7
36	Enhanced surface water flood forecasts: Userâ€ led development and testing. Journal of Flood Risk Management, 2021, 14, e12691.	3.3	7

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37	Establishing uncertainty ranges of hydrologic indices across climate and physiographic regions of the Congo River Basin. Journal of Hydrology: Regional Studies, 2020, 30, 100710.	2.4	5
38	Physical representation of hillslope leaky barriers in <scp>2D</scp> hydraulic models: A case study from the Calder Valley. Journal of Flood Risk Management, 2022, 15, .	3.3	5
39	Unpiloted Aerial Vehicle (UAV) image velocimetry for validation of two-dimensional hydraulic model simulations. Journal of Hydrology, 2022, 612, 128217.	5.4	5
40	Domestic Water Consumption and Its Determination in Rural Guatemala. Water and Environment Journal, 2000, 14, 45-50.	2.2	4
41	Urban correction of global DEMs using building density for Nairobi, Kenya. Earth Science Informatics, 2021, 14, 1383-1398.	3.2	4
42	A new global landslide dam database (RAGLAD) and analysis utilizing auxiliary global fluvial datasets. Landslides, 2022, 19, 555-572.	5.4	3
43	Understanding flood seasonality and flood regime shift in the Congo River Basin. Hydrological Sciences Journal, 2022, 67, 1496-1515.	2.6	2
44	Domestic water consumption in rural Guatemala. Waterlines, 1999, 18, 21-23.	0.4	1
45	Assessing the potential value of the regionalised input constraint indices for constraining hydrological model simulations in the Congo River Basin. Advances in Water Resources, 2022, 159, 104093.	3.8	1
46	ADDRESSING SUSTAINABILITY AND THE ENVIRONMENT DURING EMERGENCY DROUGHT RELIEF IN MOYALE, NORTH KENYA. Water and Environment Journal, 2004, 18, 217-221.	2.2	0