Tara J Troy

List of Publications by Year
in descending order

35 papers	3,504 citations	279701 23 h-index	377752 34 g-index
36 all docs	36 docs citations	36 times ranked	5356 citing authors

#	Article	IF	Citations
1	Past and future changes in climate and hydrological indicators in the US Northeast. Climate Dynamics, 2007, 28, 381-407.	1.7	697
2	Hyperresolution global land surface modeling: Meeting a grand challenge for monitoring Earth's terrestrial water. Water Resources Research, 2011, 47, .	1.7	634
3	Analysis of the Arctic System for Freshwater Cycle Intensification: Observations and Expectations. Journal of Climate, 2010, 23, 5715-5737.	1.2	303
4	Multisource Estimation of Long-Term Terrestrial Water Budget for Major Global River Basins. Journal of Climate, 2012, 25, 3191-3206.	1.2	188
5	Closing the terrestrial water budget from satellite remote sensing. Geophysical Research Letters, 2009, 36, .	1.5	186
6	Reconciling the global terrestrial water budget using satellite remote sensing. Remote Sensing of Environment, 2011, 115, 1850-1865.	4.6	152
7	An efficient calibration method for continentalâ€scale land surface modeling. Water Resources Research, 2008, 44, .	1.7	149
8	Virtual groundwater transfers from overexploited aquifers in the United States. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8561-8566.	3.3	133
9	Debatesâ€"Perspectives on socioâ€hydrology: Socioâ€hydrologic modeling: Tradeoffs, hypothesis testing, and validation. Water Resources Research, 2015, 51, 4806-4814.	1.7	106
10	The Water Planetary Boundary: Interrogation and Revision. One Earth, 2020, 2, 223-234.	3.6	98
11	Illuminating water cycle modifications and Earth system resilience in the Anthropocene. Water Resources Research, 2020, 56, e2019WR024957.	1.7	86
12	Water scarcity and fish imperilment driven by beef production. Nature Sustainability, 2020, 3, 319-328.	11.5	73
13	Agriculturally Relevant Climate Extremes and Their Trends in the World's Major Growing Regions. Earth's Future, 2018, 6, 656-672.	2.4	72
14	A climate informed model for nonstationary flood risk prediction: Application to Negro River at Manaus, Amazonia. Journal of Hydrology, 2015, 522, 594-602.	2.3	64
15	The Impact of Snow Model Complexity at Three CLPX Sites. Journal of Hydrometeorology, 2008, 9, 1464-1481.	0.7	61
16	Water resources sustainability in a globalizing world: who uses the water?. Hydrological Processes, 2016, 30, 3330-3336.	1.1	57
17	Observed changes in pan-arctic cold-season minimum monthly river discharge. Climate Dynamics, 2010, 35, 923-939.	1.7	51
18	Investigating El NiÃ±oâ€Southern Oscillation and society relationships. Wiley Interdisciplinary Reviews: Climate Change, 2015, 6, 17-34.	3.6	49

#	Article	IF	Citations
19	Hotspots for social and ecological impacts from freshwater stress and storage loss. Nature Communications, 2022, 13, 439.	5.8	45
20	A hierarchical Bayesian GEV model for improving local and regional flood quantile estimates. Journal of Hydrology, 2016, 541, 816-823.	2.3	44
21	Changes in rainfed and irrigated crop yield response to climate in the western US. Environmental Research Letters, 2018, 13, 064031.	2.2	44
22	Estimation of the Terrestrial Water Budget over Northern Eurasia through the Use of Multiple Data Sources. Journal of Climate, 2011, 24, 3272-3293.	1.2	41
23	Extreme precipitation drives groundwater recharge: the Northern High Plains Aquifer, central United States, 1950â€"2010. Hydrological Processes, 2016, 30, 2533-2545.	1.1	36
24	Reply to comment by Keith J. Beven and Hannah L. Cloke on â€œHyperresolution global land surface modeling: Meeting a grand challenge for monitoring Earth's terrestrial waterâ€. Water Resources Research, 2012, 48, .	1.7	26
25	Stochastically modeling the projected impacts of climate change on rainfed and irrigated US crop yields. Environmental Research Letters, 2019, 14, 074021.	2.2	22
26	The role of winter precipitation and temperature on northern Eurasian streamflow trends. Journal of Geophysical Research, 2012, 117, .	3.3	20
27	The U.S. foodâ€"energyâ€"water system: A blueprint to fill the mesoscale gap for science and decision-making. Ambio, 2019, 48, 251-263.	2.8	16
28	Multimodel Estimation of Snow Microwave Emission during CLPX 2003 Using Operational Parameterization of Microphysical Snow Characteristics. Journal of Hydrometeorology, 2008, 9, 1491-1505.	0.7	13
29	Modeling the surface water and groundwater budgets of the US using MODFLOW-OWHM. Advances in Water Resources, 2020, 143, 103682.	1.7	12
30	Peak Runoff Timing Is Linked to Global Warming Trajectories. Earth's Future, 2021, 9, e2021EF002083.	2.4	10
31	Vanishing weekly hydropeaking cycles in American and Canadian rivers. Nature Communications, 2021, 12, 7154.	5.8	7
32	The importance of infrastructure and national demand to represent constraints on water supply in the United States. Global Environmental Change, 2022, 73, 102468.	3.6	4
33	Snowmelt Detection with Calibrated, Enhancedâ€Resolution Brightness Temperatures (CETB) in Colorado Watersheds. Water Resources Research, 2020, 56, e2018WR024542.	1.7	3
34	Projected changes of carbon balance in mesic grassland ecosystems in response to warming and elevated CO2 using CMIP5 GCM results in the Central Great Plains, USA. Ecological Modelling, 2020, 434, 109247.	1.2	2
35	Wetting the Arctic. Nature Climate Change, 2013, 3, 17-18.	8.1	0