Yadu Pokhrel

List of Publications by Year in descending order

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63 papers	4,123 citations	147801 31 h-index	123424 61 g-index
89 all docs	89 docs citations	89 times ranked	4122 citing authors

#	Article	IF	Citations
1	Past and Future Changes in Climate and Water Resources in the Lancangâ€“Mekong River Basin: Current Understanding and Future Research Directions. Engineering, 2022, 13, 144-152.	6.7	19
2	Functional responses of fisheries to hydropower dams in the Amazonian Floodplain of the Madeira River. Journal of Applied Ecology, 2022, 59, 680-692.	4.0	11
3	On the Precipitationâ€Induced Uncertainties in Processâ€Based Hydrological Modeling in the Mekong River Basin. Water Resources Research, 2022, 58, .	4.2	22
4	Drying in the low-latitude Atlantic Ocean contributed to terrestrial water storage depletion across Eurasia. Nature Communications, 2022, 13, 1849.	12.8	26
5	Hydrologic balance and inundation dynamics of Southeast Asia's largest inland lake altered by hydropower dams in the Mekong River basin. Science of the Total Environment, 2022, 831, 154833.	8.0	16
6	Alteration of River Flow and Flood Dynamics by Existing and Planned Hydropower Dams in the Amazon River Basin. Water Resources Research, 2022, 58, .	4.2	20
7	Multi-model evaluation of catchment- and global-scale hydrological model simulations of drought characteristics across eight large river catchments. Advances in Water Resources, 2022, 165, 104212.	3.8	5
8	Evaluating a reservoir parametrization in the vector-based global routing model mizuRoute (v2.0.1) for Earth system model coupling. Geoscientific Model Development, 2022, 15, 4163-4192.	3.6	11
9	Implications of changes in climate and human development on 21st-century global drought risk. Journal of Environmental Management, 2022, 317, 115378.	7.8	17
10	Feasibility of hybrid in-stream generatorâ€“photovoltaic systems for Amazonian off-grid communities. , 2022, 1, .		4
11	The timing of unprecedented hydrological drought under climate change. Nature Communications, 2022, 13, .	12.8	77
12	Representing Intercell Lateral Groundwater Flow and Aquifer Pumping in the Community Land Model. Water Resources Research, 2021, 57, .	4.2	22
13	Global terrestrial water storage and drought severity under climate change. Nature Climate Change, 2021, 11, 226-233.	18.8	345
14	Uncertainty of simulated groundwater recharge at different global warming levels: a global-scale multi-model ensemble study. Hydrology and Earth System Sciences, 2021, 25, 787-810.	4.9	65
15	Basin-scale high-resolution extraction of drainage networks using 10-m Sentinel-2 imagery. Remote Sensing of Environment, 2021, 255, 112281.	11.0	21
16	Globally observed trends in mean and extreme river flow attributed to climate change. Science, 2021, 371, 1159-1162.	12.6	213
17	In-stream turbines for rethinking hydropower development in the Amazon basin. Nature Sustainability, 2021, 4, 680-687.	23.7	25
18	Understanding each other's models: an introduction and a standard representation of 16 global water models to support intercomparison, improvement, and communication. Geoscientific Model Development, 2021, 14, 3843-3878.	3.6	41

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19	Spatio-temporal dynamics of hydrologic changes in the Himalayan river basins of Nepal using high-resolution hydrological-hydrodynamic modeling. Journal of Hydrology, 2021, 598, 126209.	5.4	9
20	Multi-model ensemble projections of soil moisture drought over North Africa and the Sahel region under 1.5, 2, and 3ÂÂ°C global warming. Climatic Change, 2021, 167, 1.	3.6	9
21	Future hydrology and hydrological extremes under climate change in Asian river basins. Scientific Reports, 2021, 11, 17089.	3.3	15
22	Modeling Daily Floods in the Lancangâ€Mekong River Basin Using an Improved Hydrologicalâ€Hydrodynamic Model. Water Resources Research, 2021, 57, e2021WR029734.	4.2	17
23	Simulating the Impact of Global Reservoir Expansion on the Presentâ€Day Climate. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034485.	3.3	9
24	A quantitative evaluation of the issue of drought definition: a source of disagreement in future drought assessments. Environmental Research Letters, 2021, 16, 104001.	5.2	18
25	Quantifying the spatiotemporal dynamics of recharge in a composite Great Lakes watershed using a high-resolution hydrology model and multi-source data. Journal of Hydrology, 2021, 601, 126594.	5.4	2
26	Role of dams in reducing global flood exposure under climate change. Nature Communications, 2021, 12, 417.	12.8	129
27	Natural infrastructure in sustaining global urban freshwater ecosystem services. Nature Sustainability, 2021, 4, 1068-1075.	23.7	62
28	Divergent Causes of Terrestrial Water Storage Decline Between Drylands and Humid Regions Globally. Geophysical Research Letters, 2021, 48, .	4.0	23
29	Hydrologic changes, dam construction, and the shift in dietary protein in the Lower Mekong River Basin. Journal of Hydrology, 2020, 581, 124454.	5.4	14
30	How evaluation of global hydrological models can help to improve credibility of river discharge projections under climate change. Climatic Change, 2020, 163, 1353-1377.	3.6	25
31	Basinâ€Scale River Runoff Estimation From GRACE Gravity Satellites, Climate Models, and In Situ Observations: A Case Study in the Amazon Basin. Water Resources Research, 2020, 56, e2020WR028032.	4.2	36
32	Performance evaluation of global hydrological models in six large Pan-Arctic watersheds. Climatic Change, 2020, 163, 1329-1351.	3.6	19
33	Global Heat Uptake by Inland Waters. Geophysical Research Letters, 2020, 47, e2020GL087867.	4.0	31
34	High Resolution Modeling of Riverâ€Floodplainâ€Reservoir Inundation Dynamics in the Mekong River Basin. Water Resources Research, 2020, 56, e2019WR026449.	4.2	52
35	MIROC-INTEG-LAND version 1: a global biogeochemical land surface model with human water management, crop growth, and land-use change. Geoscientific Model Development, 2020, 13, 4713-4747.	3.6	14
36	Multi-decadal hydrologic change and variability in the Amazon River basin: understanding terrestrial water storage variations and drought characteristics. Hydrology and Earth System Sciences, 2019, 23, 2841-2862.	4.9	48

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37	Vegetation dynamics and ecosystem service values changes at national and provincial scales in Nepal from 2000 to 2017. Environmental Development, 2019, 32, 100464.	4.1	29
38	Multimodel assessments of human and climate impacts on mean annual streamflow in China. Hydrology and Earth System Sciences, 2019, 23, 1245-1261.	4.9	34
39	State-of-the-art global models underestimate impacts from climate extremes. Nature Communications, 2019, 10, 1005.	12.8	168
40	Effect of Human-Induced Land Disturbance on Subseasonal Predictability of Near-Surface Variables Using an Atmospheric General Circulation Model. Atmosphere, 2019, 10, 725.	2.3	4
41	Highâ€Resolution Modeling of Reservoir Release and Storage Dynamics at the Continental Scale. Water Resources Research, 2019, 55, 787-810.	4.2	71
42	Improving maize growth processes in the community land model: Implementation and evaluation. Agricultural and Forest Meteorology, 2018, 250-251, 64-89.	4.8	71
43	Human impact parameterizations in global hydrological models improve estimates of monthly discharges and hydrological extremes: a multi-model validation study. Environmental Research Letters, 2018, 13, 055008.	5.2	91
44	Climate and anthropogenic contributions to the desiccation of the second largest saline lake in the twentieth century. Journal of Hydrology, 2018, 560, 342-353.	5.4	116
45	Detecting irrigation extent, frequency, and timing in a heterogeneous arid agricultural region using MODIS time series, Landsat imagery, and ancillary data. Remote Sensing of Environment, 2018, 204, 197-211.	11.0	75
46	Utilizing SMAP Soil Moisture Data to Constrain Irrigation in the Community Land Model. Geophysical Research Letters, 2018, 45, 12,892.	4.0	33
47	AÂglobal hydrological simulation to specify the sources of water used by humans. Hydrology and Earth System Sciences, 2018, 22, 789-817.	4.9	170
48	Potential Disruption of Flood Dynamics in the Lower Mekong River Basin Due to Upstream Flow Regulation. Scientific Reports, 2018, 8, 17767.	3.3	71
49	A Quantitative Investigation of the Thresholds for Two Conventional Water Scarcity Indicators Using a Stateâ€ofâ€theâ€Art Global Hydrological Model With Human Activities. Water Resources Research, 2018, 54, 8279-8294.	4.2	34
50	Evapotranspiration simulations in ISIMIP2aâ€”Evaluation of spatio-temporal characteristics with a comprehensive ensemble of independent datasets. Environmental Research Letters, 2018, 13, 075001.	5.2	38
51	Worldwide evaluation of mean and extreme runoff from six global-scale hydrological models that account for human impacts. Environmental Research Letters, 2018, 13, 065015.	5.2	85
52	A Review of the Integrated Effects of Changing Climate, Land Use, and Dams on Mekong River Hydrology. Water (Switzerland), 2018, 10, 266.	2.7	155
53	Water scarcity hotspots travel downstream due to human interventions in the 20th and 21st century. Nature Communications, 2017, 8, 15697.	12.8	287
54	The critical role of the routing scheme in simulating peak river discharge in global hydrological models. Environmental Research Letters, 2017, 12, 075003.	5.2	105

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55	Humanâ€“water interface in hydrological modelling: current status and future directions. Hydrology and Earth System Sciences, 2017, 21, 4169-4193.	4.9	171
56	Recent progresses in incorporating human landâ€“water management into global land surface models toward their integration into Earth system models. Wiley Interdisciplinary Reviews: Water, 2016, 3, 548-574.	6.5	110
57	Incorporation of groundwater pumping in a global Land Surface Model with the representation of human impacts. Water Resources Research, 2015, 51, 78-96.	4.2	162
58	The role of groundwater in the Amazon water cycle: 3. Influence on terrestrial water storage computations and comparison with GRACE. Journal of Geophysical Research D: Atmospheres, 2013, 118, 3233-3244.	3.3	83
59	Reply to 'Overestimated water storage'. Nature Geoscience, 2013, 6, 3-4.	12.9	4
60	SUB-SEASONAL HYDROLOGICAL FORECAST SKILLS IN A DROUGHT EVENT ASSOCIATED WITH LAND INITIALIZATIONS INCLUDING HUMAN ACTIVITIES IN AN ATMOSPHERIC GENERAL CIRCULATION MODEL. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2013, 69, I_1807-I_1812.	0.1	0
61	Incorporating Anthropogenic Water Regulation Modules into a Land Surface Model. Journal of Hydrometeorology, 2012, 13, 255-269.	1.9	226
62	Model estimates of sea-level change due toÂanthropogenic impacts on terrestrial waterÂstorage. Nature Geoscience, 2012, 5, 389-392.	12.9	201
63	The effects of annual precipitation and mean air temperature on annual runoff in global forest regions. Climatic Change, 2011, 108, 401-410.	3.6	9