

# Upmanu Lall

## List of Publications by Year in descending order

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Version: 2024-02-01

277  
papers

12,418  
citations

23879

60  
h-index

42259

96  
g-index

315  
all docs

315  
docs citations

315  
times ranked

11395  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Nearest Neighbor Bootstrap For Resampling Hydrologic Time Series. <i>Water Resources Research</i> , 1996, 32, 679-693.	1.7	603
2	Ak-nearest-neighbor simulator for daily precipitation and other weather variables. <i>Water Resources Research</i> , 1999, 35, 3089-3101.	1.7	338
3	Estimation of mutual information using kernel density estimators. <i>Physical Review E</i> , 1995, 52, 2318-2321.	0.8	332
4	Flood risks and impacts: A case study of Thailand's floods in 2011 and research questions for supply chain decision making. <i>International Journal of Disaster Risk Reduction</i> , 2015, 14, 256-272.	1.8	242
5	Floods and climate: emerging perspectives for flood risk assessment and management. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 1921-1942.	1.5	239
6	National trends in drinking water quality violations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2078-2083.	3.3	228
7	Floods in a changing climate: Does the past represent the future?. <i>Water Resources Research</i> , 2001, 37, 3193-3205.	1.7	201
8	Water and economic development: The role of variability and a framework for resilience. <i>Natural Resources Forum</i> , 2006, 30, 306-317.	1.8	201
9	Streamflow simulation: A nonparametric approach. <i>Water Resources Research</i> , 1997, 33, 291-308.	1.7	196
10	Multi-variate flood damage assessment: a tree-based data-mining approach. <i>Natural Hazards and Earth System Sciences</i> , 2013, 13, 53-64.	1.5	179
11	Use of satellite imagery for water quality studies in New York Harbor. <i>Estuarine, Coastal and Shelf Science</i> , 2004, 61, 437-448.	0.9	175
12	Causes, impacts and patterns of disastrous river floods. <i>Nature Reviews Earth &amp; Environment</i> , 2021, 2, 592-609.	12.2	175
13	A rainwater harvesting system reliability model based on nonparametric stochastic rainfall generator. <i>Journal of Hydrology</i> , 2010, 392, 105-118.	2.3	174
14	Depletion and response of deep groundwater to climate-induced pumping variability. <i>Nature Geoscience</i> , 2017, 10, 105-108.	5.4	161
15	Changing Frequency and Intensity of Rainfall Extremes over India from 1951 to 2003. <i>Journal of Climate</i> , 2009, 22, 4737-4746.	1.2	160
16	Spatiotemporal Variability of ENSO and SST Teleconnections to Summer Drought over the United States during the Twentieth Century. <i>Journal of Climate</i> , 2000, 13, 4244-4255.	1.2	158
17	Categorical Climate Forecasts through Regularization and Optimal Combination of Multiple GCM Ensembles*. <i>Monthly Weather Review</i> , 2002, 130, 1792-1811.	0.5	155
18	Hydrology: The interdisciplinary science of water. <i>Water Resources Research</i> , 2015, 51, 4409-4430.	1.7	145

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19	The future role of dams in the United States of America. <i>Water Resources Research</i> , 2017, 53, 982-998.	1.7	135
20	Improved Combination of Multiple Atmospheric GCM Ensembles for Seasonal Prediction. <i>Monthly Weather Review</i> , 2004, 132, 2732-2744.	0.5	130
21	Disaggregation procedures for stochastic hydrology based on nonparametric density estimation. <i>Water Resources Research</i> , 1998, 34, 107-119.	1.7	129
22	Is an Epic Pluvial Masking the Water Insecurity of the Greater New York City Region?+. <i>Journal of Climate</i> , 2013, 26, 1339-1354.	1.2	126
23	A Nonparametric Wet/Dry Spell Model for Resampling Daily Precipitation. <i>Water Resources Research</i> , 1996, 32, 2803-2823.	1.7	123
24	Magnitude and timing of annual maximum floods: Trends and large-scale climatic associations for the Blacksmith Fork River, Utah. <i>Water Resources Research</i> , 2000, 36, 3641-3651.	1.7	117
25	Flood quantiles in a changing climate: Seasonal forecasts and causal relations. <i>Water Resources Research</i> , 2003, 39, .	1.7	116
26	Spatial scaling in a changing climate: A hierarchical bayesian model for non-stationary multi-site annual maximum and monthly streamflow. <i>Journal of Hydrology</i> , 2010, 383, 307-318.	2.3	115
27	Probabilistic Multimodel Regional Temperature Change Projections. <i>Journal of Climate</i> , 2006, 19, 4326-4343.	1.2	114
28	Anomalous ENSO Occurrences: An Alternate View*. <i>Journal of Climate</i> , 1997, 10, 2351-2357.	1.2	113
29	Climate informed flood frequency analysis and prediction in Montana using hierarchical Bayesian modeling. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	109
30	Seasonal to interannual ensemble streamflow forecasts for Ceara, Brazil: Applications of a multivariate, semiparametric algorithm. <i>Water Resources Research</i> , 2003, 39, .	1.7	107
31	A copula-based nonstationary frequency analysis for the 2012-2015 drought in California. <i>Water Resources Research</i> , 2016, 52, 5662-5675.	1.7	106
32	Greedy algae reduce arsenate. <i>Limnology and Oceanography</i> , 2003, 48, 2275-2288.	1.6	104
33	Recent advances in nonparametric function estimation: Hydrologic applications. <i>Reviews of Geophysics</i> , 1995, 33, 1093-1102.	9.0	100
34	Nonlinear Dynamics of the Great Salt Lake: Dimension Estimation. <i>Water Resources Research</i> , 1996, 32, 149-159.	1.7	96
35	A nonparametric stochastic approach for multisite disaggregation of annual to daily streamflow. <i>Water Resources Research</i> , 2010, 46, .	1.7	95
36	Flood frequencies and durations and their response to El Niño Southern Oscillation: Global analysis. <i>Journal of Hydrology</i> , 2016, 539, 358-378.	2.3	93

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37	A stochastic nonparametric technique for space-time disaggregation of streamflows. <i>Water Resources Research</i> , 2007, 43, .	1.7	92
38	A Snapshot of the World's Groundwater Challenges. <i>Annual Review of Environment and Resources</i> , 2020, 45, 171-194.	5.6	91
39	Stochastic simulation model for nonstationary time series using an autoregressive wavelet decomposition: Applications to rainfall and temperature. <i>Water Resources Research</i> , 2007, 43, .	1.7	89
40	Groundwater depletion will reduce cropping intensity in India. <i>Science Advances</i> , 2021, 7, .	4.7	87
41	Overâ€œextraction from shallow bedrock versus deep alluvial aquifers: Reliability versus sustainability considerations for India's groundwater irrigation. <i>Water Resources Research</i> , 2011, 47, .	1.7	84
42	Charting unknown watersâ€œ”On the role of surprise in flood risk assessment and management. <i>Water Resources Research</i> , 2015, 51, 6399-6416.	1.7	83
43	Interannual variability in western US precipitation. <i>Journal of Hydrology</i> , 1998, 210, 51-67.	2.3	80
44	A nonparametric approach for daily rainfall simulation. <i>Mathematics and Computers in Simulation</i> , 1999, 48, 361-371.	2.4	76
45	Dynamical Structure of Extreme Floods in the U.S. Midwest and the United Kingdom. <i>Journal of Hydrometeorology</i> , 2013, 14, 485-504.	0.7	76
46	How unprecedented was the February 2021 Texas cold snap?. <i>Environmental Research Letters</i> , 2021, 16, 064056.	2.2	76
47	Nonlinear Dynamics of the Great Salt Lake: Nonparametric Short-Term Forecasting. <i>Water Resources Research</i> , 1996, 32, 975-985.	1.7	74
48	Modeling the Effect of Algal Dynamics on Arsenic Speciation in Lake Biwa. <i>Environmental Science &amp; Technology</i> , 2004, 38, 6716-6723.	4.6	73
49	The Great Salt Lake: A Barometer of Low-Frequency Climatic Variability. <i>Water Resources Research</i> , 1995, 31, 2503-2515.	1.7	72
50	A Tree-Ring-Based Reconstruction of Delaware River Basin Streamflow Using Hierarchical Bayesian Regression. <i>Journal of Climate</i> , 2013, 26, 4357-4374.	1.2	71
51	Kernel flood frequency estimators: Bandwidth selection and kernel choice. <i>Water Resources Research</i> , 1993, 29, 1003-1015.	1.7	70
52	Classifying North Atlantic Tropical Cyclone Tracks by Mass Moments*. <i>Journal of Climate</i> , 2009, 22, 5481-5494.	1.2	70
53	Improved water allocation utilizing probabilistic climate forecasts: Shortâ€œterm water contracts in a risk management framework. <i>Water Resources Research</i> , 2009, 45, .	1.7	70
54	Kernel quantite function estimator for flood frequency analysis. <i>Water Resources Research</i> , 1994, 30, 3095-3103.	1.7	68

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55	Using Bayesian networks to model watershed management decisions: an East Canyon Creek case study. <i>Journal of Hydroinformatics</i> , 2005, 7, 267-282.	1.1	68
56	Decadal-to-centennial-scale climate variability: Insights into the rise and fall of the Great Salt Lake. <i>Geophysical Research Letters</i> , 1995, 22, 937-940.	1.5	66
57	Seasonal to interannual rainfall probabilistic forecasts for improved water supply management: Part 2 – Predictor identification of quarterly rainfall using ocean-atmosphere information. <i>Journal of Hydrology</i> , 2000, 239, 240-248.	2.3	66
58	Groundwater Depletion and Associated CO <sub>2</sub> Emissions in India. <i>Earth's Future</i> , 2018, 6, 1672-1681.	2.4	66
59	Nonlinear dynamics of the Great Salt Lake: system identification and prediction. <i>Climate Dynamics</i> , 1996, 12, 287-297.	1.7	65
60	A climate informed model for nonstationary flood risk prediction: Application to Negro River at Manaus, Amazonia. <i>Journal of Hydrology</i> , 2015, 522, 594-602.	2.3	64
61	Modeling multivariable hydrological series: Principal component analysis or independent component analysis?. <i>Water Resources Research</i> , 2007, 43, .	1.7	60
62	El-Niño/Southern Oscillation (ENSO) influences on monthly NO <sub>3</sub> load and concentration, stream flow and precipitation in the Little River Watershed, Tifton, Georgia (GA). <i>Journal of Hydrology</i> , 2010, 381, 352-363.	2.3	60
63	Multisite disaggregation of monthly to daily streamflow. <i>Water Resources Research</i> , 2000, 36, 1823-1833.	1.7	59
64	The Hydro-economics of Mining. <i>Ecological Economics</i> , 2018, 145, 368-379.	2.9	59
65	Supply Chain Analysis of Contract Farming. <i>Manufacturing and Service Operations Management</i> , 2019, 21, 361-378.	2.3	59
66	Modeling and simulation of the vulnerability of interdependent power-water infrastructure networks to cascading failures. <i>Journal of Systems Science and Systems Engineering</i> , 2016, 25, 102-118.	0.8	58
67	Seven centuries of reconstructed Brahmaputra River discharge demonstrate underestimated high discharge and flood hazard frequency. <i>Nature Communications</i> , 2020, 11, 6017.	5.8	58
68	Nonhomogeneous Markov Model for Daily Precipitation. <i>Journal of Hydrologic Engineering - ASCE</i> , 1996, 1, 33-40.	0.8	57
69	A hierarchical Bayesian regional model for nonstationary precipitation extremes in Northern California conditioned on tropical moisture exports. <i>Water Resources Research</i> , 2015, 51, 1472-1492.	1.7	55
70	Optimal Crop Choice, Irrigation Allocation, and the Impact of Contract Farming. <i>Production and Operations Management</i> , 2013, 22, 1126-1143.	2.1	54
71	A stochastic nonparametric approach for streamflow generation combining observational and paleoreconstructed data. <i>Water Resources Research</i> , 2008, 44, .	1.7	53
72	Copula-based reliability and sensitivity analysis of aging dams: Adaptive Kriging and polynomial chaos Kriging methods. <i>Applied Soft Computing Journal</i> , 2021, 109, 107524.	4.1	53

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73	The unusual 2013–2015 drought in South Korea in the context of a multcentury precipitation record: Inferences from a nonstationary, multivariate, Bayesian copula model. <i>Geophysical Research Letters</i> , 2016, 43, 8534-8544.	1.5	52
74	A modified support vector machine based prediction model on streamflow at the Shihmen Reservoir, Taiwan. <i>International Journal of Climatology</i> , 2010, 30, 1256-1268.	1.5	51
75	Seasonality and Interannual Variations of Northern Hemisphere Temperature: Equator-to-Pole Gradient and Ocean–Land Contrast. <i>Journal of Climate</i> , 1999, 12, 1086-1100.	1.2	50
76	Precipitation predictability associated with tropical moisture exports and circulation patterns for a major flood in France in 1995. <i>Water Resources Research</i> , 2013, 49, 6381-6392.	1.7	50
77	The Role of Monthly Updated Climate Forecasts in Improving Intraseasonal Water Allocation. <i>Journal of Applied Meteorology and Climatology</i> , 2009, 48, 1464-1482.	0.6	49
78	America's water risk: Current demand and climate variability. <i>Geophysical Research Letters</i> , 2015, 42, 2285-2293.	1.5	49
79	El Niño–Southern Oscillation–based index insurance for floods: Statistical risk analyses and application to Peru. <i>Water Resources Research</i> , 2007, 43, .	1.7	48
80	Climate, stream flow prediction and water management in northeast Brazil: societal trends and forecast value. <i>Climatic Change</i> , 2007, 84, 217-239.	1.7	48
81	Simulation of daily rainfall scenarios with interannual and multidecadal climate cycles for South Florida. <i>Stochastic Environmental Research and Risk Assessment</i> , 2009, 23, 879-896.	1.9	47
82	Locally weighted polynomial regression: Parameter choice and application to forecasts of the Great Salt Lake. <i>Water Resources Research</i> , 2006, 42, .	1.7	46
83	Resolving Contrasting Regional Rainfall Responses to El Niño over Tropical Africa. <i>Journal of Climate</i> , 2016, 29, 1461-1476.	1.2	46
84	Probabilistic Models Significantly Reduce Uncertainty in Hurricane Harvey Pluvial Flood Loss Estimates. <i>Earth's Future</i> , 2019, 7, 384-394.	2.4	46
85	Seasonality of streamflow: The Upper Mississippi River. <i>Water Resources Research</i> , 1999, 35, 1143-1154.	1.7	45
86	Hierarchical Bayesian clustering for nonstationary flood frequency analysis: Application to trends of annual maximum flow in Germany. <i>Water Resources Research</i> , 2015, 51, 6586-6601.	1.7	45
87	Climate teleconnections to Yangtze river seasonal streamflow at the Three Gorges Dam, China. <i>International Journal of Climatology</i> , 2007, 27, 771-780.	1.5	44
88	A hierarchical Bayesian GEV model for improving local and regional flood quantile estimates. <i>Journal of Hydrology</i> , 2016, 541, 816-823.	2.3	44
89	Support vector machines for nonlinear state space reconstruction: Application to the Great Salt Lake time series. <i>Water Resources Research</i> , 2005, 41, .	1.7	43
90	Seasonal and annual maximum streamflow forecasting using climate information: application to the Three Gorges Dam in the Yangtze River basin, China / PrÃ©vision d'Ã©coulements saisonnier et maximum annuel Ã l'aide d'informations climatiques: application au Barrage des Trois Gorges dans le bassin du Fleuve Yangtze, Chine. <i>Hydrological Sciences Journal</i> , 2009, 54, 582-595.	1.2	43

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91	Atmospheric Circulation Patterns Associated with Extreme United States Floods Identified via Machine Learning. <i>Scientific Reports</i> , 2019, 9, 7171.	1.6	43
92	Flood hazard assessment from storm tides, rain and sea level rise for a tidal river estuary. <i>Natural Hazards</i> , 2020, 102, 729-757.	1.6	43
93	Climate informed monthly streamflow forecasts for the Brazilian hydropower network using a periodic ridge regression model. <i>Journal of Hydrology</i> , 2010, 380, 438-449.	2.3	42
94	Multivariate nonparametric resampling scheme for generation of daily weather variables. <i>Stochastic Hydrology &amp; Hydraulics</i> , 1997, 11, 65-93.	0.5	41
95	Local polynomial method for ensemble forecast of time series. <i>Nonlinear Processes in Geophysics</i> , 2005, 12, 397-406.	0.6	41
96	A comparison of tail probability estimators for flood frequency analysis. <i>Journal of Hydrology</i> , 1993, 151, 343-363.	2.3	40
97	Six Centuries of Upper Indus Basin Streamflow Variability and Its Climatic Drivers. <i>Water Resources Research</i> , 2018, 54, 5687-5701.	1.7	40
98	An optimization model for screening multipurpose reservoir systems. <i>Water Resources Research</i> , 1988, 24, 953-968.	1.7	39
99	Evaluation of kernel density estimation methods for daily precipitation resampling. <i>Stochastic Hydrology &amp; Hydraulics</i> , 1997, 11, 523-547.	0.5	39
100	Hierarchical Bayesian modeling of multisite daily rainfall occurrence: Rainy season onset, peak, and end. <i>Water Resources Research</i> , 2009, 45, .	1.7	38
101	A hierarchical Bayesian regression model for predicting summer residential electricity demand across the U.S.A.. <i>Energy</i> , 2017, 140, 601-611.	4.5	38
102	Relative contribution of climate variability and human activities on the water loss of the Chari/Logone River discharge into Lake Chad: A conceptual and statistical approach. <i>Journal of Hydrology</i> , 2019, 569, 519-531.	2.3	38
103	Role of Retrospective Forecasts of GCMs Forced with Persisted SST Anomalies in Operational Streamflow Forecasts Development. <i>Journal of Hydrometeorology</i> , 2008, 9, 212-227.	0.7	37
104	Assessing chronic and climate-induced water risk through spatially distributed cumulative deficit measures: A new picture of water sustainability in India. <i>Water Resources Research</i> , 2013, 49, 2135-2145.	1.7	37
105	Regional frequency analysis conditioned on large-scale atmospheric or oceanic fields. <i>Water Resources Research</i> , 2014, 50, 9536-9554.	1.7	37
106	Kernel bandwidth selection for a first order nonparametric streamflow simulation model. <i>Stochastic Hydrology &amp; Hydraulics</i> , 1998, 12, 33-52.	0.5	36
107	El Niño-induced flooding in the U.S. West: What can we expect?. <i>Eos</i> , 2002, 83, 349.	0.1	36
108	Statistical Prediction of ENSO from Subsurface Sea Temperature Using a Nonlinear Dimensionality Reduction. <i>Journal of Climate</i> , 2009, 22, 4501-4519.	1.2	35

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109	Uncertainty assessment of hydrologic and climate forecast models in Northeastern Brazil. <i>Hydrological Processes</i> , 2012, 26, 3875-3885.	1.1	35
110	Tailings Dams Failures: Updated Statistical Model for Discharge Volume and Runout. <i>Environments - MDPI</i> , 2018, 5, 28.	1.5	35
111	A kernel estimator for discrete distributions. <i>Journal of Nonparametric Statistics</i> , 1995, 4, 409-426.	0.4	34
112	Debatesâ€”The future of hydrological sciences: A (common) path forward? One water. One world. Many climes. Many souls. <i>Water Resources Research</i> , 2014, 50, 5335-5341.	1.7	34
113	Daily Precipitation and Tropical Moisture Exports across the Eastern United States: An Application of Archetypal Analysis to Identify Spatiotemporal Structure. <i>Journal of Climate</i> , 2015, 28, 8585-8602.	1.2	34
114	Climate information based streamflow and rainfall forecasts for Huai River basin using hierarchical Bayesian modeling. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 1539-1548.	1.9	33
115	A Simple Framework for Incorporating Seasonal Streamflow Forecasts into Existing Water Resource Management Practices. <i>Journal of the American Water Resources Association</i> , 2010, 46, 574-585.	1.0	32
116	Multiscale temporal variability and regional patterns in 555 years of conterminous U.S. streamflow. <i>Water Resources Research</i> , 2017, 53, 3047-3066.	1.7	32
117	Multivariate streamflow forecasting using independent component analysis. <i>Water Resources Research</i> , 2008, 44, .	1.7	31
118	Forecasting Spring Reservoir Inflows in Churchill Falls Basin in QuÃ©bec, Canada. <i>Journal of Hydrologic Engineering - ASCE</i> , 2008, 13, 426-437.	0.8	31
119	Changes in the seasonality of tornado and favorable genesis conditions in the central United States. <i>Geophysical Research Letters</i> , 2015, 42, 4224-4231.	1.5	31
120	Predictive downscaling based on non-homogeneous hidden Markov models. <i>Hydrological Sciences Journal</i> , 2010, 55, 333-350.	1.2	30
121	Can Electricity Pricing Save Indiaâ€™s Groundwater? Field Evidence from a Novel Policy Mechanism in Gujarat. <i>Journal of the Association of Environmental and Resource Economists</i> , 2016, 3, 819-855.	1.0	30
122	Intrinsic modulation of ENSO predictability viewed through a local Lyapunov lens. <i>Climate Dynamics</i> , 2014, 42, 253-270.	1.7	29
123	Large scale climate and rainfall seasonality in a Mediterranean Area: Insights from a non-homogeneous Markov model applied to the Agro-Pontino plain. <i>Hydrological Processes</i> , 2017, 31, 668-686.	1.1	29
124	Monthly Streamflow Simulation for the Headwater Catchment of the Yellow River Basin With a Hybrid Statistical-Dynamical Model. <i>Water Resources Research</i> , 2019, 55, 7606-7621.	1.7	29
125	A Multivariate Frequency-Domain Approach to Long-Lead Climatic Forecasting*. <i>Weather and Forecasting</i> , 1998, 13, 58-74.	0.5	28
126	DYNAMIC NEAREST-NEIGHBOR METHOD FOR ESTIMATING SOIL WATER PARAMETERS. <i>Transactions of the American Society of Agricultural Engineers</i> , 2004, 47, 1437-1444.	0.9	27



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127	Space-time structure of extreme precipitation in Europe over the last century. <i>International Journal of Climatology</i> , 2015, 35, 1749-1760.	1.5	27
128	The effects of land use change and precipitation change on direct runoff in Wei River watershed, China. <i>Water Science and Technology</i> , 2015, 71, 289-295.	1.2	27
129	Wavelet-based time series bootstrap model for multidecadal streamflow simulation using climate indicators. <i>Water Resources Research</i> , 2016, 52, 4061-4077.	1.7	27
130	Regional Extreme Precipitation Events: Robust Inference From Credibly Simulated <scp>GCM</scp> Variables. <i>Water Resources Research</i> , 2018, 54, 3809-3824.	1.7	27
131	Landscape changes and their hydrologic effects: Interactions and feedbacks across scales. <i>Earth-Science Reviews</i> , 2021, 212, 103466.	4.0	27
132	Optimal parameter estimation for Muskingum routing with ungauged lateral inflow. <i>Journal of Hydrology</i> , 1995, 169, 25-35.	2.3	26
133	Can PDSI inform extreme precipitation?: An exploration with a 500 year long paleoclimate reconstruction over the U.S.. <i>Water Resources Research</i> , 2016, 52, 3866-3880.	1.7	26
134	Atmospheric Flow Indices and Interannual Great Salt Lake Variability. <i>Journal of Hydrologic Engineering - ASCE</i> , 1996, 1, 55-62.	0.8	25
135	HITS: Hurricane Intensity and Track Simulator with North Atlantic Ocean Applications for Risk Assessment. <i>Journal of Applied Meteorology and Climatology</i> , 2015, 54, 1620-1636.	0.6	25
136	Can a paleodrought record be used to reconstruct streamflow?: A case study for the Missouri River Basin. <i>Water Resources Research</i> , 2016, 52, 5195-5212.	1.7	25
137	Development of a Demand Sensitive Drought Index and its application for agriculture over the conterminous United States. <i>Journal of Hydrology</i> , 2016, 534, 219-229.	2.3	25
138	Evaluating China's Water Security for Food Production: The Role of Rainfall and Irrigation. <i>Geophysical Research Letters</i> , 2019, 46, 11155-11166.	1.5	25
139	Detecting community response to water quality violations using bottled water sales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20917-20922.	3.3	25
140	Larger Drought and Flood Hazards and Adverse Impacts on Population and Economic Productivity Under 2.0 than 1.5°C Warming. <i>Earth's Future</i> , 2020, 8, e2019EF001398.	2.4	25
141	Spatially coherent trends of annual maximum daily precipitation in the United States. <i>Geophysical Research Letters</i> , 2015, 42, 9781-9789.	1.5	24
142	Assessing the economic impact of a low-cost water-saving irrigation technology in Indian Punjab: the tensiometer. <i>Water International</i> , 2018, 43, 305-321.	0.4	24
143	The U.S. Water Data Gap—A Survey of State-Level Water Data Platforms to Inform the Development of a National Water Portal. <i>Earth's Future</i> , 2019, 7, 433-449.	2.4	24
144	Seasonality of precipitation along a meridian in the western United States. <i>Geophysical Research Letters</i> , 1995, 22, 1081-1084.	1.5	23

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145	An event synchronization method to link heavy rainfall events and large-scale atmospheric circulation features. <i>International Journal of Climatology</i> , 2018, 38, 1421-1437.	1.5	23
146	Robust Adaptation to Multiscale Climate Variability. <i>Earth's Future</i> , 2019, 7, 734-747.	2.4	23
147	Making waves: Right in our backyard- surface discharge of untreated wastewater from homes in the United States. <i>Water Research</i> , 2021, 190, 116647.	5.3	23
148	Solving groundwater depletion in India while achieving food security. <i>Nature Communications</i> , 2022, 13, .	5.8	23
149	Estimation of Pearson type 3 moments. <i>Water Resources Research</i> , 1982, 18, 1563-1569.	1.7	22
150	Transport in the Hudson estuary: A modeling study of estuarine circulation and tidal trapping. <i>Estuaries and Coasts</i> , 2004, 27, 527-538.	1.7	22
151	Nonlinear dynamics and the Great Salt Lake: A predictable indicator of regional climate. <i>Energy</i> , 1996, 21, 655-665.	4.5	21
152	Episodic interannual climate oscillations and their influence on seasonal rainfall in the Everglades National Park. <i>Water Resources Research</i> , 2006, 42, .	1.7	21
153	Climate informed long term seasonal forecasts of hydroenergy inflow for the Brazilian hydropower system. <i>Journal of Hydrology</i> , 2010, 381, 65-75.	2.3	21
154	An Empirical, Nonparametric Simulator for Multivariate Random Variables with Differing Marginal Densities and Nonlinear Dependence with Hydroclimatic Applications. <i>Risk Analysis</i> , 2016, 36, 57-73.	1.5	21
155	Interpreting variability in global SST data using independent component analysis and principal component analysis. <i>International Journal of Climatology</i> , 2010, 30, 333-346.	1.5	20
156	Surface Temperature Gradients as Diagnostic Indicators of Midlatitude Circulation Dynamics. <i>Journal of Climate</i> , 2012, 25, 4154-4171.	1.2	20
157	The Role of Multimodel Climate Forecasts in Improving Water and Energy Management over the Tana River Basin, Kenya. <i>Journal of Applied Meteorology and Climatology</i> , 2013, 52, 2460-2475.	0.6	20
158	America's water: Agricultural water demands and the response of groundwater. <i>Geophysical Research Letters</i> , 2016, 43, 7546-7555.	1.5	20
159	Building Private Sector Resilience: Directions After the 2015 Sendai Framework. <i>Journal of Disaster Research</i> , 2016, 11, 535-543.	0.4	20
160	Local Polynomial-Based Flood Frequency Estimator for Mixed Population. <i>Journal of Hydrologic Engineering - ASCE</i> , 2010, 15, 680-691.	0.8	19
161	County-Scale Rainwater Harvesting Feasibility in the United States: Climate, Collection Area, Density, and Reuse Considerations. <i>Journal of the American Water Resources Association</i> , 2018, 54, 255-274.	1.0	19
162	Yield Model for Screening Surface- and Ground-Water Development. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1995, 121, 9-22.	1.3	18

#	ARTICLE	IF	CITATIONS
163	Predictability of Western Himalayan river flow: melt seasonal inflow into Bhakra Reservoir in northern India. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 2131-2146.	1.9	18
164	Projecting changes in Tanzania rainfall for the 21st century. <i>International Journal of Climatology</i> , 2016, 36, 4297-4314.	1.5	18
165	Exploring the Predictability of 30-Day Extreme Precipitation Occurrence Using a Global SST- $\delta$ -SLP Correlation Network. <i>Journal of Climate</i> , 2016, 29, 1013-1029.	1.2	18
166	An index for drought induced financial risk in the mining industry. <i>Water Resources Research</i> , 2017, 53, 1509-1524.	1.7	18
167	Optimizing multiple reliable forward contracts for reservoir allocation using multitime scale streamflow forecasts. <i>Water Resources Research</i> , 2017, 53, 2035-2050.	1.7	18
168	Nonstationary extreme flood/rainfall frequency analysis informed by large-scale oceanic fields for Xidayang Reservoir in North China. <i>International Journal of Climatology</i> , 2017, 37, 3810-3820.	1.5	18
169	El Niño and the U.S. precipitation and floods: What was expected for the January-March 2016 winter hydroclimate that is now unfolding?. <i>Water Resources Research</i> , 2016, 52, 1498-1501.	1.7	17
170	Spatiotemporal Structure of Precipitation Related to Tropical Moisture Exports over the Eastern United States and Its Relation to Climate Teleconnections. <i>Journal of Hydrometeorology</i> , 2016, 17, 897-913.	0.7	17
171	A water risk index for portfolio exposure to climatic extremes: conceptualization and an application to the mining industry. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 2075-2106.	1.9	17
172	Comment on "Quantifying renewable groundwater stress with GRACE" by Alexandra S. Richey et al.. <i>Water Resources Research</i> , 2016, 52, 4184-4187.	1.7	16
173	Streamflow Reconstruction in the Upper Missouri River Basin Using a Novel Bayesian Network Model. <i>Water Resources Research</i> , 2019, 55, 7694-7716.	1.7	16
174	Superposed Natural Hazards and Pandemics: Breaking Dams, Floods, and COVID-19. <i>Sustainability</i> , 2021, 13, 8713.	1.6	16
175	An optimization model for unconfined stratified aquifer systems. <i>Journal of Hydrology</i> , 1989, 111, 145-162.	2.3	15
176	Demand management of groundwater with monsoon forecasting. <i>Agricultural Systems</i> , 2006, 90, 293-311.	3.2	15
177	Analysis of Climatic States and Atmospheric Circulation Patterns That Influence Quabec Spring Streamflows. <i>Journal of Hydrologic Engineering - ASCE</i> , 2008, 13, 411-425.	0.8	15
178	Implications of multi-scale sea level and climate variability for coastal resources. <i>Regional Environmental Change</i> , 2013, 13, 91-100.	1.4	15
179	China's water sustainability in the 21st century: a climate-informed water risk assessment covering multi-sector water demands. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 1653-1662.	1.9	15
180	Modeling winter rainfall in Northwest India using a hidden Markov model: understanding occurrence of different states and their dynamical connections. <i>Climate Dynamics</i> , 2015, 44, 1003-1015.	1.7	15

#	ARTICLE	IF	CITATIONS
181	An improved nonstationary model for flood frequency analysis and its implication for the Three Gorges Dam, China. <i>Hydrological Sciences Journal</i> , 2019, 64, 845-855.	1.2	15
182	The impact of the Three Gorges Dam on summer streamflow in the Yangtze River Basin. <i>Hydrological Processes</i> , 2020, 34, 705-717.	1.1	15
183	Contract farming with possible renegeing in a developing country: Can it work?. <i>IIMB Management Review</i> , 2012, 24, 187-202.	0.7	14
184	Climate risk management for water in semi-“arid regions. <i>Earth Perspectives – Transdisciplinarity Enabled</i> , 2014, 1, 12.	1.4	14
185	Predictive statistical models linking antecedent meteorological conditions and waterway bacterial contamination in urban waterways. <i>Water Research</i> , 2015, 76, 143-159.	5.3	13
186	Tropical Moisture Exports, Extreme Precipitation and Floods in Northeastern US. <i>Earth Science Research</i> , 2017, 6, 91.	0.3	13
187	The bridge between precipitation and temperature “ Pressure Change Events: Modeling future non-stationary precipitation. <i>Journal of Hydrology</i> , 2018, 562, 346-357.	2.3	13
188	Model for planning water-energy systems. <i>Water Resources Research</i> , 1981, 17, 853-865.	1.7	12
189	Developing Total Maximum Daily Loads Under Uncertainty: Decision Analysis and the Margin of Safety. <i>Journal of Contemporary Water Research and Education</i> , 2008, 140, 37-52.	0.7	12
190	Role of price and enforcement in water allocation: Insights from Game Theory. <i>Water Resources Research</i> , 2008, 44, .	1.7	12
191	Modeling Irrigated Area to Increase Water, Energy, and Food Security in Semiarid India. <i>Weather, Climate, and Society</i> , 2010, 2, 255-270.	0.5	12
192	Diagnostics of Western Himalayan Satluj River flow: Warm season (MAM/JJAS) inflow into Bhakra dam in India. <i>Journal of Hydrology</i> , 2013, 478, 132-147.	2.3	12
193	China’s socioeconomic risk from extreme events in a changing climate: a hierarchical Bayesian model. <i>Climatic Change</i> , 2016, 139, 169-181.	1.7	12
194	An analysis of Peru: Is water driving mining conflicts?. <i>Resources Policy</i> , 2018, 74, 101270.	4.2	12
195	A groundwater management model for Salt Lake County, Utah with some water rights and water quality considerations. <i>Journal of Hydrology</i> , 1991, 123, 367-393.	2.3	11
196	Classification of mechanisms, climatic context, areal scaling, and synchronization of floods: the hydroclimatology of floods in the Upper Paran River basin, Brazil. <i>Earth System Dynamics</i> , 2017, 8, 1071-1091.	2.7	11
197	A Nonlinear Dynamical Systems-Based Modeling Approach for Stochastic Simulation of Streamflow and Understanding Predictability. <i>Water Resources Research</i> , 2019, 55, 6268-6284.	1.7	11
198	Human mobility data and analysis for urban resilience: A systematic review. <i>Environment and Planning B: Urban Analytics and City Science</i> , 2022, 49, 1507-1535.	1.0	11

#	ARTICLE	IF	CITATIONS
199	Yield Model for Screening Multipurpose Reservoir Systems. Journal of Water Resources Planning and Management - ASCE, 1999, 125, 325-332.	1.3	10
200	Non-parametric short-term forecasts of the Great Salt Lake using atmospheric indices. International Journal of Climatology, 2007, 28, 361.	1.5	9
201	Insights from a joint analysis of Indian and Chinese monsoon rainfall data. Hydrology and Earth System Sciences, 2011, 15, 2709-2715.	1.9	9
202	A 500-Year Tree Ring-Based Reconstruction of Extreme Cold-Season Precipitation and Number of Atmospheric River Landfalls Across the Southwestern United States. Geophysical Research Letters, 2018, 45, 5672-5680.	1.5	9
203	Willingness of farmers to pay for satellite-based irrigation advisory services: a southern Italy experience. Journal of Agricultural Science, 2018, 156, 723-730.	0.6	9
204	Synchronization and Delay Between Circulation Patterns and High Streamflow Events in Germany. Water Resources Research, 2020, 56, e2019WR025598.	1.7	9
205	Assessment of Agricultural Water Management in Punjab, India, Using Bayesian Methods. , 2015, , 147-162.		9
206	ENSO Dynamics, Trends, and Prediction Using Machine Learning. Weather and Forecasting, 2020, 35, 2061-2081.	0.5	9
207	Regional Index Insurance Using Satellite-Based Fractional Flooded Area. Earth's Future, 2022, 10, .	2.4	9
208	Determination of an optimal aquifer yield, with Salt Lake County applications. Journal of Hydrology, 1988, 104, 273-287.	2.3	8
209	A Bayesian Hierarchical Network Model for Daily Streamflow Ensemble Forecasting. Water Resources Research, 2021, 57, e2021WR029920.	1.7	8
210	Hierarchical regression models for dendroclimatic standardization and climate reconstruction. Dendrochronologia, 2017, 44, 174-186.	1.0	8
211	Challenges in Securing India's Water Future. Journal of Crop Improvement, 2009, 24, 85-91.	0.9	7
212	Framework for minimising the impact of regional shocks on global food security using multi-objective ant colony optimisation. Environmental Modelling and Software, 2017, 95, 303-319.	1.9	7
213	Sustainable Development of Water Resources: Spatio-Temporal Analysis of Water Stress in South Korea. Sustainability, 2018, 10, 3795.	1.6	7
214	An observation-driven optimization method for continuous estimation of evaporative fraction over large heterogeneous areas. Remote Sensing of Environment, 2020, 247, 111887.	4.6	7
215	A parameter estimation model for ungaged streamflows. Journal of Hydrology, 1987, 92, 245-262.	2.3	6
216	Predicting foraging wading bird populations in Everglades National Park from seasonal hydrologic statistics under different management scenarios. Water Resources Research, 2011, 47, .	1.7	6

#	ARTICLE	IF	CITATIONS
217	Scaling of extreme rainfall areas at a planetary scale. <i>Chaos</i> , 2015, 25, 075407.	1.0	6
218	How Wet and Dry Spells Evolve across the Conterminous United States Based on 555 Years of Paleoclimate Data. <i>Journal of Climate</i> , 2018, 31, 6633-6647.	1.2	6
219	Africa Would Need to Import More Maize in the Future Even Under 1.5°C Warming Scenario. <i>Earth's Future</i> , 2021, 9, e2020EF001574.	2.4	6
220	Climatic precursors of autumn streamflow in the northeast United States. <i>International Journal of Climatology</i> , 2011, 31, 1773-1784.	1.5	5
221	A model robust real options valuation methodology incorporating climate risk. <i>Resources Policy</i> , 2018, 57, 81-87.	4.2	5
222	Variability patterns of the annual frequency and timing of low streamflow days across the United States and their linkage to regional and large-scale climate. <i>Hydrological Processes</i> , 2019, 33, 1569-1578.	1.1	5
223	Invigorating Hydrological Research Through Journal Publications. <i>Water Resources Research</i> , 2020, 56, .	1.7	5
224	Seasonal Precipitation Predictability for the Northern Hemisphere Using Concurrent and Preseason Atmospheric Water Vapor Transport and Sea Surface Temperature. <i>Journal of Hydrometeorology</i> , 2021, 22, 183-199.	0.7	5
225	Space-time clustering of climate extremes amplify global climate impacts, leading to fat-tailed risk. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 2277-2284.	1.5	5
226	Machine Learning Methods for ENSO Analysis and Prediction. , 2015, , 13-21.		5
227	A k-nearest neighbor space-time simulator with applications to large-scale wind and solar power modeling. <i>Patterns</i> , 2022, 3, 100454.	3.1	5
228	Mining time-lagged relationships in spatio-temporal climate data. , 2012, , .		4
229	Introduction to the Focus Issue: Physics of Scaling and Self-similarity in Hydrologic Dynamics, Hydrodynamics, and Climate. <i>Chaos</i> , 2015, 25, 075201.	1.0	4
230	Season-ahead forecasting of water storage and irrigation requirements – an application to the southwest monsoon in India. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 5125-5141.	1.9	4
231	Invigorating hydrological research through journal publications. <i>Hydrological Sciences Journal</i> , 2018, 63, 1113-1117.	1.2	4
232	A City Wide Assessment of the Financial Benefits of Rainwater Harvesting in Mexico City. <i>Journal of the American Water Resources Association</i> , 2020, 56, 247-269.	1.0	4
233	Stochastic Scenarios for 21st Century Rainfall Seasonality, Daily Frequency, and Intensity in South Florida. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020, 146, .	1.3	4
234	Adaptation over Fatalism: Leveraging High-Impact Climate Disasters to Boost Societal Resilience. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020, 146, 01820001.	1.3	4

#	ARTICLE	IF	CITATIONS
235	A Multiscale Precipitation Forecasting Framework: Linking Teleconnections and Climate Dipoles to Seasonal and 24-hr Extreme Rainfall Prediction. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085418.	1.5	4
236	The effects of pre-season high flows, climate, and the Three Gorges Dam on low flow at the Three Gorges Region, China. <i>Hydrological Processes</i> , 2020, 34, 2088-2100.	1.1	4
237	A Nonparametric Renewal Model for Modeling Daily Precipitation. <i>Water Science and Technology Library</i> , 1994, , 47-59.	0.2	4
238	The importance of infrastructure and national demand to represent constraints on water supply in the United States. <i>Global Environmental Change</i> , 2022, 73, 102468.	3.6	4
239	An L1 smoothing spline algorithm with cross validation. <i>Numerical Algorithms</i> , 1993, 5, 407-417.	1.1	3
240	Operational Seasonal Streamflow Forecasting Using Climate Information. , 2001, , 1.		3
241	Zonal Wind Indices to Reconstruct CONUS Winter Precipitation. <i>Geophysical Research Letters</i> , 2017, 44, 12,236.	1.5	3
242	Joint editorial: Invigorating hydrological research through journal publications. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 5735-5739.	1.9	3
243	GRAPS: Generalized Multi-Reservoir Analyses using probabilistic streamflow forecasts. <i>Environmental Modelling and Software</i> , 2020, 133, 104802.	1.9	3
244	Early Season Hurricane Risk Assessment: Climate-Conditioned HITS Simulation of North Atlantic Tropical Storm Tracks. <i>Journal of Applied Meteorology and Climatology</i> , 2021, 60, 559-575.	0.6	3
245	Last two millennia of streamflow variability in the headwater catchment of the Yellow River basin reconstructed from tree rings. <i>Journal of Hydrology</i> , 2022, 606, 127387.	2.3	3
246	A Flood Risk Management Model to Identify Optimal Defence Policies in Coastal Areas Considering Uncertainties in Climate Projections. <i>Water (Switzerland)</i> , 2022, 14, 1481.	1.2	3
247	A Kernel Estimator for Stochastic Subsurface Characterization. <i>Ground Water</i> , 1996, 34, 647-658.	0.7	2
248	Categorical Climate Forecasts through Optimal Combination of Multiple GCM Ensembles. , 2003, , 1.		2
249	Using a Participatory Stakeholder Process to Plan Water Development in Koraro, Ethiopia. <i>Water (Switzerland)</i> , 2016, 8, 275.	1.2	2
250	Urban Water Systems. , 0, , 519-552.		2
251	Development of a Non-Parametric Stationary Synthetic Rainfall Generator for Use in Hourly Water Resource Simulations. <i>Water (Switzerland)</i> , 2019, 11, 1728.	1.2	2
252	Project Risk Considering Sampling Uncertainties and a Finite Project Operation Period. , 1987, , 305-318.		2

#	ARTICLE	IF	CITATIONS
253	Global Freshwater and Food Security in the Face of Potential Adversity. , 2013, , 120-141.		2
254	Enabling AI innovation via data and model sharing: An overview of the NSF Convergence Accelerator Track D. AI Magazine, 2022, 43, 93-104.	1.4	2
255	LOWLAD: a locally weighted L1 smoothing spline algorithm with cross validated choice of smoothing parameters. Numerical Algorithms, 1995, 9, 85-106.	1.1	1
256	Multi-dimensional and Interacting Water and Climate Risks and Pricing Them in the Industry Context. Palgrave Studies in Sustainable Business in Association With Future Earth, 2021, , 303-327.	0.5	1
257	Estimation of a Prior Distribution for the Bayesian Estimation of Pearson III Skews. , 1987, , 131-147.		1
258	Nonlinear dynamics of the Great Salt Lake: system identification and prediction. Climate Dynamics, 1996, 12, 287-297.	1.7	1
259	The Sustainability of Water Resources in China. , 2012, , 239-288.		1
260	Low Streamflow Trends in the United States. Turkish Journal of Water Science and Management, 2017, 1, 71-89.	0.2	1
261	Quantifying Sustainability. , 0, , 74-89.		1
262	Four-level compensation standards and calculation techniques for water ecological protection in the river source regions in China. Ecohydrology, 0, , e2366.	1.1	1
263	Climate Drivers, Streamflow Forecasting, and Flood Risk Management. , 2005, , .		1
264	Joint Editorial Invigorating Hydrological Research through Journal Publications. Journal of Hydrology and Hydromechanics, 2018, 66, 257-260.	0.7	1
265	Six Months Ahead Forecast of May-July Streamflow for the Churchill Falls Basin, Québec Canada. , 2003, , 1.		0
266	Management of Changing Flood Risk Considering Information and Forecasts of Seasonal to Interannual Climate State. , 2003, , .		0
267	Flood Quantiles and Changing Climate: Seasonal Forecasts and Reconstruction of Past Flood Records. , 2003, , 1.		0
268	Utility of Streamflow Forecasts Derived from Seasonal Precipitation Forecasts. , 2004, , 1.		0
269	A Worldwide Comparison of Water Use Efficiency of Crop Production. Applied Mechanics and Materials, 2013, 275-277, 2718-2722.	0.2	0
270	Joint Editorial: Invigorating hydrological research through journal publications. Hydrology Research, 2018, 49, iii-ix.	1.1	0



#	ARTICLE	IF	CITATIONS
271	Invigorating Hydrological Research through Journal Publications. Journal of Hydrometeorology, 2018, 19, 1713-1719.	0.7	0
272	Joint Editorial: Invigorating Hydrological Research through Journal Publications. Vadose Zone Journal, 2018, 17, 180001ed.	1.3	0
273	Invigorating hydrological research through journal publications. Ecohydrology, 2018, 11, e2016.	1.1	0
274	Climate Change Impacts on Water-Resource Operations in the Rocky Mountain/Great Basin Region. , 2001, , .		0
275	Challenges in securing India's water future. , 2010, , 21-26.		0
276	Adaptable web modules to stimulate active learning in engineering hydrology using data and model simulations. , 2014, , .		0
277	Joint editorial: Invigorating hydrological research through journal publications. Proceedings of the International Association of Hydrological Sciences, 0, 380, 3-8.	1.0	0