# Upmanu Lall

List of Publications by Year
in descending order

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| | | 20817 | 37204 |
|---|---|---|---|
| 277 | 12,418 | 60 | 96 |
| papers | citations | h-index | g-index |

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|---|---|---|---|
| 315 | 315 | 315 | 10044 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A Nearest Neighbor Bootstrap For Resampling Hydrologic Time Series. Water Resources Research, 1996, 32, 679-693. | 4.2 | 603 |
| 2 | Ak-nearest-neighbor simulator for daily precipitation and other weather variables. Water Resources Research, 1999, 35, 3089-3101. | 4.2 | 338 |
| 3 | Estimation of mutual information using kernel density estimators. Physical Review E, 1995, 52, 2318-2321. | 2.1 | 332 |
| 4 | Flood risks and impacts: A case study of Thailandâ€™s floods in 2011 and research questions for supply chain decision making. International Journal of Disaster Risk Reduction, 2015, 14, 256-272. | 3.9 | 242 |
| 5 | Floods and climate: emerging perspectives for flood risk assessment and management. Natural Hazards and Earth System Sciences, 2014, 14, 1921-1942. | 3.6 | 239 |
| 6 | National trends in drinking water quality violations. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2078-2083. | 7.1 | 228 |
| 7 | Floods in a changing climate: Does the past represent the future?. Water Resources Research, 2001, 37, 3193-3205. | 4.2 | 201 |
| 8 | Water and economic development: The role of variability and a framework for resilience. Natural Resources Forum, 2006, 30, 306-317. | 3.6 | 201 |
| 9 | Streamflow simulation: A nonparametric approach. Water Resources Research, 1997, 33, 291-308. | 4.2 | 196 |
| 10 | Multi-variate flood damage assessment: a tree-based data-mining approach. Natural Hazards and Earth System Sciences, 2013, 13, 53-64. | 3.6 | 179 |
| 11 | Use of satellite imagery for water quality studies in New York Harbor. Estuarine, Coastal and Shelf Science, 2004, 61, 437-448. | 2.1 | 175 |
| 12 | Causes, impacts and patterns of disastrous river floods. Nature Reviews Earth & Environment, 2021, 2, 592-609. | 29.7 | 175 |
| 13 | A rainwater harvesting system reliability model based on nonparametric stochastic rainfall generator. Journal of Hydrology, 2010, 392, 105-118. | 5.4 | 174 |
| 14 | Depletion and response of deep groundwater to climate-induced pumping variability. Nature Geoscience, 2017, 10, 105-108. | 12.9 | 161 |
| 15 | Changing Frequency and Intensity of Rainfall Extremes over India from 1951 to 2003. Journal of Climate, 2009, 22, 4737-4746. | 3.2 | 160 |
| 16 | Spatiotemporal Variability of ENSO and SST Teleconnections to Summer Drought over the United States during the Twentieth Century. Journal of Climate, 2000, 13, 4244-4255. | 3.2 | 158 |
| 17 | Categorical Climate Forecasts through Regularization and Optimal Combination of Multiple GCM Ensembles*. Monthly Weather Review, 2002, 130, 1792-1811. | 1.4 | 155 |
| 18 | Hydrology: The interdisciplinary science of water. Water Resources Research, 2015, 51, 4409-4430. | 4.2 | 145 |

| # | Article | IF | Citations |
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| 19 | The future role of dams in the <scp>U</scp>nited <scp>S</scp>tates of <scp>A</scp>merica. Water Resources Research, 2017, 53, 982-998. | 4.2 | 135 |
| 20 | Improved Combination of Multiple Atmospheric GCM Ensembles for Seasonal Prediction. Monthly Weather Review, 2004, 132, 2732-2744. | 1.4 | 130 |
| 21 | Disaggregation procedures for stochastic hydrology based on nonparametric density estimation. Water Resources Research, 1998, 34, 107-119. | 4.2 | 129 |
| 22 | Is an Epic Pluvial Masking the Water Insecurity of the Greater New York City Region?*,+. Journal of Climate, 2013, 26, 1339-1354. | 3.2 | 126 |
| 23 | A Nonparametric Wet/Dry Spell Model for Resampling Daily Precipitation. Water Resources Research, 1996, 32, 2803-2823. | 4.2 | 123 |
| 24 | Magnitude and timing of annual maximum floods: Trends and large-scale climatic associations for the Blacksmith Fork River, Utah. Water Resources Research, 2000, 36, 3641-3651. | 4.2 | 117 |
| 25 | Flood quantiles in a changing climate: Seasonal forecasts and causal relations. Water Resources Research, 2003, 39, . | 4.2 | 116 |
| 26 | Spatial scaling in a changing climate: A hierarchical bayesian model for non-stationary multi-site annual maximum and monthly streamflow. Journal of Hydrology, 2010, 383, 307-318. | 5.4 | 115 |
| 27 | Probabilistic Multimodel Regional Temperature Change Projections. Journal of Climate, 2006, 19, 4326-4343. | 3.2 | 114 |
| 28 | Anomalous ENSO Occurrences: An Alternate View*. Journal of Climate, 1997, 10, 2351-2357. | 3.2 | 113 |
| 29 | Climate informed flood frequency analysis and prediction in Montana using hierarchical Bayesian modeling. Geophysical Research Letters, 2008, 35, . | 4.0 | 109 |
| 30 | Seasonal to interannual ensemble streamflow forecasts for Ceara, Brazil: Applications of a multivariate, semiparametric algorithm. Water Resources Research, 2003, 39, . | 4.2 | 107 |
| 31 | A copulaâ€based nonstationary frequency analysis for the 2012â€“2015 drought in California. Water Resources Research, 2016, 52, 5662-5675. | 4.2 | 106 |
| 32 | Greedy algae reduce arsenate. Limnology and Oceanography, 2003, 48, 2275-2288. | 3.1 | 104 |
| 33 | Recent advances in nonparametric function estimation: Hydrologic applications. Reviews of Geophysics, 1995, 33, 1093-1102. | 23.0 | 100 |
| 34 | Nonlinear Dynamics of the Great Salt Lake: Dimension Estimation. Water Resources Research, 1996, 32, 149-159. | 4.2 | 96 |
| 35 | A nonparametric stochastic approach for multisite disaggregation of annual to daily streamflow. Water Resources Research, 2010, 46, . | 4.2 | 95 |
| 36 | Flood frequencies and durations and their response to El NiÃ±o Southern Oscillation: Global analysis. Journal of Hydrology, 2016, 539, 358-378. | 5.4 | 93 |

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| 37 | A stochastic nonparametric technique for space-time disaggregation of streamflows. Water Resources Research, 2007, 43, . | 4.2 | 92 |
| 38 | A Snapshot of the World's Groundwater Challenges. Annual Review of Environment and Resources, 2020, 45, 171-194. | 13.4 | 91 |
| 39 | Stochastic simulation model for nonstationary time series using an autoregressive wavelet decomposition: Applications to rainfall and temperature. Water Resources Research, 2007, 43, . | 4.2 | 89 |
| 40 | Groundwater depletion will reduce cropping intensity in India. Science Advances, 2021, 7, . | 10.3 | 87 |
| 41 | Overâ€extraction from shallow bedrock versus deep alluvial aquifers: Reliability versus sustainability considerations for India's groundwater irrigation. Water Resources Research, 2011, 47, . | 4.2 | 84 |
| 42 | Charting unknown watersâ€"On the role of surprise in flood risk assessment and management. Water Resources Research, 2015, 51, 6399-6416. | 4.2 | 83 |
| 43 | Interannual variability in western US precipitation. Journal of Hydrology, 1998, 210, 51-67. | 5.4 | 80 |
| 44 | A nonparametric approach for daily rainfall simulation. Mathematics and Computers in Simulation, 1999, 48, 361-371. | 4.4 | 76 |
| 45 | Dynamical Structure of Extreme Floods in the U.S. Midwest and the United Kingdom. Journal of Hydrometeorology, 2013, 14, 485-504. | 1.9 | 76 |
| 46 | How unprecedented was the February 2021 Texas cold snap?. Environmental Research Letters, 2021, 16, 064056. | 5.2 | 76 |
| 47 | Nonlinear Dynamics of the Great Salt Lake: Nonparametric Short-Term Forecasting. Water Resources Research, 1996, 32, 975-985. | 4.2 | 74 |
| 48 | Modeling the Effect of Algal Dynamics on Arsenic Speciation in Lake Biwa. Environmental Science & Technology, 2004, 38, 6716-6723. | 10.0 | 73 |
| 49 | The Great Salt Lake: A Barometer of Low-Frequency Climatic Variability. Water Resources Research, 1995, 31, 2503-2515. | 4.2 | 72 |
| 50 | A Tree-Ring-Based Reconstruction of Delaware River Basin Streamflow Using Hierarchical Bayesian Regression. Journal of Climate, 2013, 26, 4357-4374. | 3.2 | 71 |
| 51 | Kernel flood frequency estimators: Bandwidth selection and kernel choice. Water Resources Research, 1993, 29, 1003-1015. | 4.2 | 70 |
| 52 | Classifying North Atlantic Tropical Cyclone Tracks by Mass Moments*. Journal of Climate, 2009, 22, 5481-5494. | 3.2 | 70 |
| 53 | Improved water allocation utilizing probabilistic climate forecasts: Shortâ€term water contracts in a risk management framework. Water Resources Research, 2009, 45, . | 4.2 | 70 |
| 54 | Kernel quantite function estimator for flood frequency analysis. Water Resources Research, 1994, 30, 3095-3103. | 4.2 | 68 |

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| 55 | Using Bayesian networks to model watershed management decisions: an East Canyon Creek case study. Journal of Hydroinformatics, 2005, 7, 267-282. | 2.4 | 68 |
| 56 | Decadal-to-centennial-scale climate variability: Insights into the rise and fall of the Great Salt Lake. Geophysical Research Letters, 1995, 22, 937-940. | 4.0 | 66 |
| 57 | Seasonal to interannual rainfall probabilistic forecasts for improved water supply management: Part 2 â€" Predictor identification of quarterly rainfall using ocean-atmosphere information. Journal of Hydrology, 2000, 239, 240-248. | 5.4 | 66 |
| 58 | Groundwater Depletion and Associated CO<sub>2</sub> Emissions in India. Earth's Future, 2018, 6, 1672-1681. | 6.3 | 66 |
| 59 | Nonlinear dynamics of the Great Salt Lake: system identification and prediction. Climate Dynamics, 1996, 12, 287-297. | 3.8 | 65 |
| 60 | A climate informed model for nonstationary flood risk prediction: Application to Negro River at Manaus, Amazonia. Journal of Hydrology, 2015, 522, 594-602. | 5.4 | 64 |
| 61 | Modeling multivariable hydrological series: Principal component analysis or independent component analysis?. Water Resources Research, 2007, 43, . | 4.2 | 60 |
| 62 | El-NiÃ±o/Southern Oscillation (ENSO) influences on monthly NO3 load and concentration, stream flow and precipitation in the Little River Watershed, Tifton, Georgia (GA). Journal of Hydrology, 2010, 381, 352-363. | 5.4 | 60 |
| 63 | Multisite disaggregation of monthly to daily streamflow. Water Resources Research, 2000, 36, 1823-1833. | 4.2 | 59 |
| 64 | The Hydro-economics of Mining. Ecological Economics, 2018, 145, 368-379. | 5.7 | 59 |
| 65 | Supply Chain Analysis of Contract Farming. Manufacturing and Service Operations Management, 2019, 21, 361-378. | 3.7 | 59 |
| 66 | Modeling and simulation of the vulnerability of interdependent power-water infrastructure networks to cascading failures. Journal of Systems Science and Systems Engineering, 2016, 25, 102-118. | 1.6 | 58 |
| 67 | Seven centuries of reconstructed Brahmaputra River discharge demonstrate underestimated high discharge and flood hazard frequency. Nature Communications, 2020, 11, 6017. | 12.8 | 58 |
| 68 | Nonhomogeneous Markov Model for Daily Precipitation. Journal of Hydrologic Engineering - ASCE, 1996, 1, 33-40. | 1.9 | 57 |
| 69 | A hierarchical <scp>B</scp>ayesian regional model for nonstationary precipitation extremes in <scp>N</scp>orthern <scp>C</scp>alifornia conditioned on tropical moisture exports. Water Resources Research, 2015, 51, 1472-1492. | 4.2 | 55 |
| 70 | Optimal Crop Choice, Irrigation Allocation, and the Impact of Contract Farming. Production and Operations Management, 2013, 22, 1126-1143. | 3.8 | 54 |
| 71 | A stochastic nonparametric approach for streamflow generation combining observational and paleoreconstructed data. Water Resources Research, 2008, 44, . | 4.2 | 53 |
| 72 | Copula-based reliability and sensitivity analysis of aging dams: Adaptive Kriging and polynomial chaos Kriging methods. Applied Soft Computing Journal, 2021, 109, 107524. | 7.2 | 53 |

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| 73 | The unusual 2013â€“2015 drought in South Korea in the context of a multicentury precipitation record: Inferences from a nonstationary, multivariate, Bayesian copula model. Geophysical Research Letters, 2016, 43, 8534-8544. | 4.0 | 52 |
| 74 | A modified support vector machine based prediction model on streamflow at the Shihmen Reservoir, Taiwan. International Journal of Climatology, 2010, 30, 1256-1268. | 3.5 | 51 |
| 75 | Seasonality and Interannual Variations of Northern Hemisphere Temperature: Equator-to-Pole Gradient and Oceanâ€“Land Contrast. Journal of Climate, 1999, 12, 1086-1100. | 3.2 | 50 |
| 76 | Precipitation predictability associated with tropical moisture exports and circulation patterns for a major flood in France in 1995. Water Resources Research, 2013, 49, 6381-6392. | 4.2 | 50 |
| 77 | The Role of Monthly Updated Climate Forecasts in Improving Intraseasonal Water Allocation. Journal of Applied Meteorology and Climatology, 2009, 48, 1464-1482. | 1.5 | 49 |
| 78 | America's water risk: Current demand and climate variability. Geophysical Research Letters, 2015, 42, 2285-2293. | 4.0 | 49 |
| 79 | El NiÃ±oâ€“Southern Oscillationâ€“based index insurance for floods: Statistical risk analyses and application to Peru. Water Resources Research, 2007, 43, . | 4.2 | 48 |
| 80 | Climate, stream flow prediction and water management in northeast Brazil: societal trends and forecast value. Climatic Change, 2007, 84, 217-239. | 3.6 | 48 |
| 81 | Simulation of daily rainfall scenarios with interannual and multidecadal climate cycles for South Florida. Stochastic Environmental Research and Risk Assessment, 2009, 23, 879-896. | 4.0 | 47 |
| 82 | Locally weighted polynomial regression: Parameter choice and application to forecasts of the Great Salt Lake. Water Resources Research, 2006, 42, . | 4.2 | 46 |
| 83 | Resolving Contrasting Regional Rainfall Responses to El NiÃ±o over Tropical Africa. Journal of Climate, 2016, 29, 1461-1476. | 3.2 | 46 |
| 84 | Probabilistic Models Significantly Reduce Uncertainty in Hurricane Harvey Pluvial Flood Loss Estimates. Earth's Future, 2019, 7, 384-394. | 6.3 | 46 |
| 85 | Seasonality of streamflow: The Upper Mississippi River. Water Resources Research, 1999, 35, 1143-1154. | 4.2 | 45 |
| 86 | Hierarchical <scp>B</scp>ayesian clustering for nonstationary flood frequency analysis: Application to trends of annual maximum flow in <scp>G</scp>ermany. Water Resources Research, 2015, 51, 6586-6601. | 4.2 | 45 |
| 87 | Climate teleconnections to Yangtze river seasonal streamflow at the Three Gorges Dam, China. International Journal of Climatology, 2007, 27, 771-780. | 3.5 | 44 |
| 88 | A hierarchical Bayesian GEV model for improving local and regional flood quantile estimates. Journal of Hydrology, 2016, 541, 816-823. | 5.4 | 44 |
| 89 | Support vector machines for nonlinear state space reconstruction: Application to the Great Salt Lake time series. Water Resources Research, 2005, 41, . | 4.2 | 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. Hydrological Sciences Journal, 2009, 54, 582-595. | 2.6 | 43 |

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| 91 | Atmospheric Circulation Patterns Associated with Extreme United States Floods Identified via Machine Learning. Scientific Reports, 2019, 9, 7171. | 3.3 | 43 |
| 92 | Flood hazard assessment from storm tides, rain and sea level rise for a tidal river estuary. Natural Hazards, 2020, 102, 729-757. | 3.4 | 43 |
| 93 | Climate informed monthly streamflow forecasts for the Brazilian hydropower network using a periodic ridge regression model. Journal of Hydrology, 2010, 380, 438-449. | 5.4 | 42 |
| 94 | Multivariate nonparametric resampling scheme for generation of daily weather variables. Stochastic Hydrology & Hydraulics, 1997, 11, 65-93. | 0.5 | 41 |
| 95 | Local polynomial method for ensemble forecast of time series. Nonlinear Processes in Geophysics, 2005, 12, 397-406. | 1.3 | 41 |
| 96 | A comparison of tail probability estimators for flood frequency analysis. Journal of Hydrology, 1993, 151, 343-363. | 5.4 | 40 |
| 97 | Six Centuries of Upper Indus Basin Streamflow Variability and Its Climatic Drivers. Water Resources Research, 2018, 54, 5687-5701. | 4.2 | 40 |
| 98 | An optimization model for screening multipurpose reservoir systems. Water Resources Research, 1988, 24, 953-968. | 4.2 | 39 |
| 99 | Evaluation of kernel density estimation methods for daily precipitation resampling. Stochastic Hydrology & Hydraulics, 1997, 11, 523-547. | 0.5 | 39 |
| 100 | Hierarchical Bayesian modeling of multisite daily rainfall occurrence: Rainy season onset, peak, and end. Water Resources Research, 2009, 45, . | 4.2 | 38 |
| 101 | A hierarchical Bayesian regression model for predicting summer residential electricity demand across the U.S.A.. Energy, 2017, 140, 601-611. | 8.8 | 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. Journal of Hydrology, 2019, 569, 519-531. | 5.4 | 38 |
| 103 | Role of Retrospective Forecasts of GCMs Forced with Persisted SST Anomalies in Operational Streamflow Forecasts Development. Journal of Hydrometeorology, 2008, 9, 212-227. | 1.9 | 37 |
| 104 | Assessing chronic and climateâ€induced water risk through spatially distributed cumulative deficit measures: A new picture of water sustainability in India. Water Resources Research, 2013, 49, 2135-2145. | 4.2 | 37 |
| 105 | Regional frequency analysis conditioned on large-scale atmospheric or oceanic fields. Water Resources Research, 2014, 50, 9536-9554. | 4.2 | 37 |
| 106 | Kernel bandwidth selection for a first order nonparametric streamflow simulation model. Stochastic Hydrology & Hydraulics, 1998, 12, 33-52. | 0.5 | 36 |
| 107 | El NiÃ±o-induced flooding in the U.S. West: What can we expect?. Eos, 2002, 83, 349. | 0.1 | 36 |
| 108 | Statistical Prediction of ENSO from Subsurface Sea Temperature Using a Nonlinear Dimensionality Reduction. Journal of Climate, 2009, 22, 4501-4519. | 3.2 | 35 |

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| 109 | Uncertainty assessment of hydrologic and climate forecast models in Northeastern Brazil. Hydrological Processes, 2012, 26, 3875-3885. | 2.6 | 35 |
| 110 | Tailings Dams Failures: Updated Statistical Model for Discharge Volume and Runout. Environments - MDPI, 2018, 5, 28. | 3.3 | 35 |
| 111 | A kernel estimator for discrete distributions. Journal of Nonparametric Statistics, 1995, 4, 409-426. | 0.9 | 34 |
| 112 | Debatesâ€"The future of hydrological sciences: A (common) path forward? One water. One world. Many climes. Many souls. Water Resources Research, 2014, 50, 5335-5341. | 4.2 | 34 |
| 113 | Daily Precipitation and Tropical Moisture Exports across the Eastern United States: An Application of Archetypal Analysis to Identify Spatiotemporal Structure. Journal of Climate, 2015, 28, 8585-8602. | 3.2 | 34 |
| 114 | Climate information based streamflow and rainfall forecasts for Huai River basin using hierarchical Bayesian modeling. Hydrology and Earth System Sciences, 2014, 18, 1539-1548. | 4.9 | 33 |
| 115 | A Simple Framework for Incorporating Seasonal Streamflow Forecasts into Existing Water Resource Management Practices<sup>1</sup>. Journal of the American Water Resources Association, 2010, 46, 574-585. | 2.4 | 32 |
| 116 | Multiscale temporal variability and regional patterns in 555 years of conterminous U.S. streamflow. Water Resources Research, 2017, 53, 3047-3066. | 4.2 | 32 |
| 117 | Multivariate streamflow forecasting using independent component analysis. Water Resources Research, 2008, 44, . | 4.2 | 31 |
| 118 | Forecasting Spring Reservoir Inflows in Churchill Falls Basin in QuÃ©bec, Canada. Journal of Hydrologic Engineering - ASCE, 2008, 13, 426-437. | 1.9 | 31 |
| 119 | Changes in the seasonality of tornado and favorable genesis conditions in the central United States. Geophysical Research Letters, 2015, 42, 4224-4231. | 4.0 | 31 |
| 120 | Predictive downscaling based on non-homogeneous hidden Markov models. Hydrological Sciences Journal, 2010, 55, 333-350. | 2.6 | 30 |
| 121 | Can Electricity Pricing Save Indiaâ€™s Groundwater? Field Evidence from a Novel Policy Mechanism in Gujarat. Journal of the Association of Environmental and Resource Economists, 2016, 3, 819-855. | 1.5 | 30 |
| 122 | Intrinsic modulation of ENSO predictability viewed through a local Lyapunov lens. Climate Dynamics, 2014, 42, 253-270. | 3.8 | 29 |
| 123 | Large scale climate and rainfall seasonality in a Mediterranean Area: Insights from a nonâ€homogeneous Markov model applied to the Agroâ€Pontino plain. Hydrological Processes, 2017, 31, 668-686. | 2.6 | 29 |
| 124 | Monthly Streamflow Simulation for the Headwater Catchment of the Yellow River Basin With a Hybrid Statisticalâ€Dynamical Model. Water Resources Research, 2019, 55, 7606-7621. | 4.2 | 29 |
| 125 | A Multivariate Frequency-Domain Approach to Long-Lead Climatic Forecasting*. Weather and Forecasting, 1998, 13, 58-74. | 1.4 | 28 |
| 126 | DYNAMIC NEAREST-NEIGHBOR METHOD FOR ESTIMATING SOIL WATER PARAMETERS. Transactions of the American Society of Agricultural Engineers, 2004, 47, 1437-1444. | 0.9 | 27 |

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| 127 | Spaceâ€time structure of extreme precipitation in Europe over the last century. International Journal of Climatology, 2015, 35, 1749-1760. | 3.5 | 27 |
| 128 | The effects of land use change and precipitation change on direct runoff in Wei River watershed, China. Water Science and Technology, 2015, 71, 289-295. | 2.5 | 27 |
| 129 | Waveletâ€based time series bootstrap model for multidecadal streamflow simulation using climate indicators. Water Resources Research, 2016, 52, 4061-4077. | 4.2 | 27 |
| 130 | Regional Extreme Precipitation Events: Robust Inference From Credibly Simulated <scp>GCM</scp> Variables. Water Resources Research, 2018, 54, 3809-3824. | 4.2 | 27 |
| 131 | Landscape changes and their hydrologic effects: Interactions and feedbacks across scales. Earth-Science Reviews, 2021, 212, 103466. | 9.1 | 27 |
| 132 | Optimal parameter estimation for Muskingum routing with ungauged lateral inflow. Journal of Hydrology, 1995, 169, 25-35. | 5.4 | 26 |
| 133 | Can PDSI inform extreme precipitation?: An exploration with a 500 year long paleoclimate reconstruction over the U.S.. Water Resources Research, 2016, 52, 3866-3880. | 4.2 | 26 |
| 134 | Atmospheric Flow Indices and Interannual Great Salt Lakeâ€‰Variability. Journal of Hydrologic Engineering - ASCE, 1996, 1, 55-62. | 1.9 | 25 |
| 135 | HITS: Hurricane Intensity and Track Simulator with North Atlantic Ocean Applications for Risk Assessment. Journal of Applied Meteorology and Climatology, 2015, 54, 1620-1636. | 1.5 | 25 |
| 136 | Can a paleodrought record be used to reconstruct streamflow?: A case study for the Missouri River Basin. Water Resources Research, 2016, 52, 5195-5212. | 4.2 | 25 |
| 137 | Development of a Demand Sensitive Drought Index and its application for agriculture over the conterminous United States. Journal of Hydrology, 2016, 534, 219-229. | 5.4 | 25 |
| 138 | Evaluating China's Water Security for Food Production: The Role of Rainfall and Irrigation. Geophysical Research Letters, 2019, 46, 11155-11166. | 4.0 | 25 |
| 139 | Detecting community response to water quality violations using bottled water sales. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20917-20922. | 7.1 | 25 |
| 140 | Larger Drought and Flood Hazards and Adverse Impacts on Population and Economic Productivity Under 2.0 than 1.5Â°C Warming. Earth's Future, 2020, 8, e2019EF001398. | 6.3 | 25 |
| 141 | Spatially coherent trends of annual maximum daily precipitation in the United States. Geophysical Research Letters, 2015, 42, 9781-9789. | 4.0 | 24 |
| 142 | Assessing the economic impact of a low-cost water-saving irrigation technology in Indian Punjab: the tensiometer. Water International, 2018, 43, 305-321. | 1.0 | 24 |
| 143 | The U.S. Water Data Gapâ€”A Survey of Stateâ€Level Water Data Platforms to Inform the Development of a National Water Portal. Earth's Future, 2019, 7, 433-449. | 6.3 | 24 |
| 144 | Seasonality of precipitation along a meridian in the western United States. Geophysical Research Letters, 1995, 22, 1081-1084. | 4.0 | 23 |

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| 145 | An event synchronization method to link heavy rainfall events and largeâ€scale atmospheric circulation features. International Journal of Climatology, 2018, 38, 1421-1437. | 3.5 | 23 |
| 146 | Robust Adaptation to Multiscale Climate Variability. Earth's Future, 2019, 7, 734-747. | 6.3 | 23 |
| 147 | Making waves: Right in our backyard- surface discharge of untreated wastewater from homes in the United States. Water Research, 2021, 190, 116647. | 11.3 | 23 |
| 148 | Solving groundwater depletion in India while achieving food security. Nature Communications, 2022, 13, . | 12.8 | 23 |
| 149 | Estimation of Pearson type 3 moments. Water Resources Research, 1982, 18, 1563-1569. | 4.2 | 22 |
| 150 | Transport in the Hudson estuary: A modeling study of estuarine circulation and tidal trapping. Estuaries and Coasts, 2004, 27, 527-538. | 1.7 | 22 |
| 151 | Nonlinear dynamics and the Great Salt Lake: A predictable indicator of regional climate. Energy, 1996, 21, 655-665. | 8.8 | 21 |
| 152 | Episodic interannual climate oscillations and their influence on seasonal rainfall in the Everglades National Park. Water Resources Research, 2006, 42, . | 4.2 | 21 |
| 153 | Climate informed long term seasonal forecasts of hydroenergy inflow for the Brazilian hydropower system. Journal of Hydrology, 2010, 381, 65-75. | 5.4 | 21 |
| 154 | An Empirical, Nonparametric Simulator for Multivariate Random Variables with Differing Marginal Densities and Nonlinear Dependence with Hydroclimatic Applications. Risk Analysis, 2016, 36, 57-73. | 2.7 | 21 |
| 155 | Interpreting variability in global SST data using independent component analysis and principal component analysis. International Journal of Climatology, 2010, 30, 333-346. | 3.5 | 20 |
| 156 | Surface Temperature Gradients as Diagnostic Indicators of Midlatitude Circulation Dynamics. Journal of Climate, 2012, 25, 4154-4171. | 3.2 | 20 |
| 157 | The Role of Multimodel Climate Forecasts in Improving Water and Energy Management over the Tana River Basin, Kenya. Journal of Applied Meteorology and Climatology, 2013, 52, 2460-2475. | 1.5 | 20 |
| 158 | America's water: Agricultural water demands and the response of groundwater. Geophysical Research Letters, 2016, 43, 7546-7555. | 4.0 | 20 |
| 159 | Building Private Sector Resilience: Directions After the 2015 Sendai Framework. Journal of Disaster Research, 2016, 11, 535-543. | 0.7 | 20 |
| 160 | Local Polynomialâ€“Based Flood Frequency Estimator for Mixed Population. Journal of Hydrologic Engineering - ASCE, 2010, 15, 680-691. | 1.9 | 19 |
| 161 | Countyâ€Scale Rainwater Harvesting Feasibility in the United States: Climate, Collection Area, Density, and Reuse Considerations. Journal of the American Water Resources Association, 2018, 54, 255-274. | 2.4 | 19 |
| 162 | Yield Model for Screening Surface- and Ground-Water Development. Journal of Water Resources Planning and Management - ASCE, 1995, 121, 9-22. | 2.6 | 18 |

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| 163 | Predictability of Western Himalayan river flow: melt seasonal inflow into Bhakra Reservoir in northern India. Hydrology and Earth System Sciences, 2013, 17, 2131-2146. | 4.9 | 18 |
| 164 | Projecting changes in Tanzania rainfall for the 21st century. International Journal of Climatology, 2016, 36, 4297-4314. | 3.5 | 18 |
| 165 | Exploring the Predictability of 30-Day Extreme Precipitation Occurrence Using a Global SSTâ€“SLP Correlation Network. Journal of Climate, 2016, 29, 1013-1029. | 3.2 | 18 |
| 166 | An index for drought induced financial risk in the mining industry. Water Resources Research, 2017, 53, 1509-1524. | 4.2 | 18 |
| 167 | Optimizing multiple reliable forward contracts for reservoir allocation using multitime scale streamflow forecasts. Water Resources Research, 2017, 53, 2035-2050. | 4.2 | 18 |
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