Ashok Kumar Mishra

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

123 papers

7,500 citations

37 h-index 85 g-index

127 ext. papers

9,150 ext. citations

avg, IF

L-index

#	Paper	IF	Citations
123	A review of drought concepts. <i>Journal of Hydrology</i> , 2010 , 391, 202-216	6	2417
122	Drought modeling [A review. <i>Journal of Hydrology</i> , 2011 , 403, 157-175	6	526
121	Drought forecasting using stochastic models. <i>Stochastic Environmental Research and Risk Assessment</i> , 2005 , 19, 326-339	3.5	281
120	Drought forecasting using feed-forward recursive neural network. <i>Ecological Modelling</i> , 2006 , 198, 127-	-1338	223
119	Developments in hydrometric network design: A review. <i>Reviews of Geophysics</i> , 2009 , 47,	23.1	194
118	Climate Change and Drought: a Perspective on Drought Indices. <i>Current Climate Change Reports</i> , 2018 , 4, 145-163	9	184
117	Drought Forecasting Using a Hybrid Stochastic and Neural Network Model. <i>Journal of Hydrologic Engineering - ASCE</i> , 2007 , 12, 626-638	1.8	169
116	Climate change will affect global water availability through compounding changes in seasonal precipitation and evaporation. <i>Nature Communications</i> , 2020 , 11, 3044	17.4	167
115	Drought characterization: a probabilistic approach. <i>Stochastic Environmental Research and Risk Assessment</i> , 2009 , 23, 41-55	3.5	146
114	Multivariate drought index: An information theory based approach for integrated drought assessment. <i>Journal of Hydrology</i> , 2015 , 526, 164-182	6	129
113	An entropy-based investigation into the variability of precipitation. <i>Journal of Hydrology</i> , 2009 , 370, 139	9-₫54	121
112	Drought Analysis Using Copulas. <i>Journal of Hydrologic Engineering - ASCE</i> , 2013 , 18, 797-808	1.8	107
111	Drought monitoring with soil moisture active passive (SMAP) measurements. <i>Journal of Hydrology</i> , 2017 , 552, 620-632	6	97
110	Spatial and temporal drought analysis in the Kansabati river basin, India. <i>International Journal of River Basin Management</i> , 2005 , 3, 31-41	1.7	93
109	Water security assessment using blue and green water footprint concepts. <i>Journal of Hydrology</i> , 2016 , 542, 589-602	6	92
108	Long Lead Time Drought Forecasting Using a Wavelet and Fuzzy Logic Combination Model: A Case Study in Texas. <i>Journal of Hydrometeorology</i> , 2012 , 13, 284-297	3.7	92
107	A review of remote sensing applications in agriculture for food security: Crop growth and yield, irrigation, and crop losses. <i>Journal of Hydrology</i> , 2020 , 586, 124905	6	91

106	Hydrometric network evaluation for Canadian watersheds. <i>Journal of Hydrology</i> , 2010 , 380, 420-437	6	82
105	Evaluation of satellite rainfall climatology using CMORPH, PERSIANN-CDR, PERSIANN, TRMM, MSWEP over Iran. <i>International Journal of Climatology</i> , 2017 , 37, 4896-4914	3.5	80
104	Entropy theory-based criterion for hydrometric network evaluation and design: Maximum information minimum redundancy. <i>Water Resources Research</i> , 2012 , 48,	5.4	71
103	A bivariate mixed distribution with a heavy-tailed component and its application to single-site daily rainfall simulation. <i>Water Resources Research</i> , 2013 , 49, 767-789	5.4	71
102	Low frequency drought variability associated with climate indices. <i>Journal of Hydrology</i> , 2009 , 364, 152-	-1662	71
101	Impact of Human Intervention and Climate Change on Natural Flow Regime. <i>Water Resources Management</i> , 2016 , 30, 685-699	3.7	69
100	Anatomy of a local-scale drought: Application of assimilated remote sensing products, crop model, and statistical methods to an agricultural drought study. <i>Journal of Hydrology</i> , 2015 , 526, 15-29	6	67
99	Long-term spatio-temporal drought variability in Turkey. <i>Journal of Hydrology</i> , 2017 , 552, 779-792	6	66
98	A copula-based precipitation forecasting model: Investigating the interdecadal modulation of ENSO's impacts on monthly precipitation. <i>Water Resources Research</i> , 2014 , 50, 580-600	5.4	62
97	Changes in extreme precipitation in Texas. Journal of Geophysical Research, 2010, 115,		62
96	Potential of Intelligent Transportation Systems in Mitigating Adverse Weather Impacts on Road Mobility: A Review. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015 , 16, 1107-1119	6.1	59
95	Drought characterization over India under projected climate scenario. <i>International Journal of Climatology</i> , 2019 , 39, 1889-1911	3.5	56
94	A review of remote sensing applications for water security: Quantity, quality, and extremes. <i>Journal of Hydrology</i> , 2020 , 585, 124826	6	55
93	Compound natural and human disasters: Managing drought and COVID-19 to sustain global agriculture and food sectors. <i>Science of the Total Environment</i> , 2021 , 754, 142210	10.2	54
92	Spatial variability of climate change impacts on yield of rice and wheat in the Indian Ganga Basin. <i>Science of the Total Environment</i> , 2013 , 468-469 Suppl, S132-8	10.2	52
91	Integrated drought causality, hazard, and vulnerability assessment for future socioeconomic scenarios: An information theory perspective. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 6346-6378	4.4	52
90	Review of complex networks application in hydroclimatic extremes with an implementation to characterize spatio-temporal drought propagation in continental USA. <i>Journal of Hydrology</i> , 2017 , 555, 600-620	6	46
89	Multi-scale evaluation of six high-resolution satellite monthly rainfall estimates over a humid region in China with dense rain gauges. <i>International Journal of Remote Sensing</i> , 2014 , 35, 1272-1294	3.1	45

88	Simulation of the entire range of daily precipitation using a hybrid probability distribution. <i>Water Resources Research</i> , 2012 , 48,	5.4	45
87	Quantifying Climate and Catchment Control on Hydrological Drought in the Continental United States. <i>Water Resources Research</i> , 2020 , 56, e2018WR024620	5.4	37
86	Estimating Palmer Drought Severity Index using a wavelet fuzzy logic model based on meteorological variables. <i>International Journal of Climatology</i> , 2011 , 31, 2021-2032	3.5	36
85	Increase in Compound Drought and Heatwaves in a Warming World. <i>Geophysical Research Letters</i> , 2021 , 48,	4.9	36
84	Hydrological Drought in the Anthropocene: Impacts of Local Water Extraction and Reservoir Regulation in the U.S <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 11,313-11,328	4.4	35
83	Regionalization of Drought Characteristics Using an Entropy Approach. <i>Journal of Hydrologic Engineering - ASCE</i> , 2013 , 18, 870-887	1.8	33
82	Evaluation of remotely sensed precipitation estimates using PERSIANN-CDR and MSWEP for spatio-temporal drought assessment over Iran. <i>Journal of Hydrology</i> , 2019 , 579, 124189	6	31
81	Water, Environment, Energy, and Population Growth: Implications for Water Sustainability under Climate Change. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014 , 19, 667-673	1.8	31
8o	Uncertainties of gridded precipitation observations in characterizing spatio-temporal drought and wetness over Vietnam. <i>International Journal of Climatology</i> , 2018 , 38, 2067-2081	3.5	30
79	Assessing future changes in seasonal climatic extremes in the Ganges river basin using an ensemble of regional climate models. <i>Climatic Change</i> , 2014 , 123, 273-286	4.5	30
78	Evaluating uncertainties in multi-layer soil moisture estimation with support vector machines and ensemble Kalman filtering. <i>Journal of Hydrology</i> , 2016 , 538, 243-255	6	30
77	Performance of SMAP, AMSR-E and LAI for weekly agricultural drought forecasting over continental United States. <i>Journal of Hydrology</i> , 2017 , 553, 88-104	6	29
76	Comparison of BIAS correction techniques for GPCC rainfall data in semi-arid climate. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016 , 30, 1659-1675	3.5	28
75	Potential influence of climate and anthropogenic variables on water security using blue and green water scarcity, Falkenmark index, and freshwater provision indicator. <i>Journal of Environmental Management</i> , 2018 , 228, 346-362	7.9	27
74	Scaling characteristics of precipitation data in conjunction with wavelet analysis. <i>Journal of Hydrology</i> , 2010 , 395, 279-288	6	25
73	Wet and dry spell analysis using copulas. <i>International Journal of Climatology</i> , 2016 , 36, 476-491	3.5	25
72	Changes in temporal variability of precipitation over land due to anthropogenic forcings. <i>Environmental Research Letters</i> , 2017 , 12, 024009	6.2	24
71	Variability in Canadian Seasonal Streamflow Information and Its Implication for Hydrometric Network Design. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014 , 19, 05014003	1.8	24

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70	Performance of AMSR_E soil moisture data assimilation in CLM4.5 model for monitoring hydrologic fluxes at global scale. <i>Journal of Hydrology</i> , 2017 , 547, 67-79	6	23	
69	Nonstationary frequency analysis of the recent extreme precipitation events in the United States. <i>Journal of Hydrology</i> , 2019 , 575, 999-1010	6	23	
68	Investigating drought in Apulia region, Italy using SPI and RDI. <i>Theoretical and Applied Climatology</i> , 2019 , 137, 383-397	3	23	
67	Hydrologic Drought Atlas for Texas. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015 , 20, 05014023	1.8	22	
66	Compound Drought and Heatwaves at a Global Scale: The Role of Natural Climate Variability-Associated Synoptic Patterns and Land-Surface Energy Budget Anomalies. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031943	4.4	22	
65	Evaluation of multiple stochastic rainfall generators in diverse climatic regions. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018 , 32, 1337-1353	3.5	22	
64	Wet and dry spell analysis of Global Climate Model-generated precipitation using power laws and wavelet transforms. <i>Stochastic Environmental Research and Risk Assessment</i> , 2011 , 25, 517-535	3.5	22	
63	Trend and persistence of precipitation under climate change scenarios for Kansabati basin, India. <i>Hydrological Processes</i> , 2009 , 23, 2345-2357	3.3	22	
62	Multiscale hydrological drought analysis: Role of climate, catchment and morphological variables and associated thresholds. <i>Journal of Hydrology</i> , 2020 , 582, 124533	6	22	
61	Water Security Assessment for the Contiguous United States Using Water Footprint Concepts. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087061	4.9	20	
60	Three-parameter-based streamflow elasticity model: application to MOPEX basins in the USA at annual and seasonal scales. <i>Hydrology and Earth System Sciences</i> , 2016 , 20, 2545-2556	5.5	20	•
59	Extraction of information content from stochastic disaggregation and bias corrected downscaled precipitation variables for crop simulation. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013 , 27, 449-457	3.5	19	
58	Impact of land uses, drought, flood, wildfire, and cascading events on water quality and microbial communities: A review and analysis. <i>Journal of Hydrology</i> , 2021 , 596, 125707	6	18	
57	Seasonal streamflow extremes in Texas river basins: Uncertainty, trends, and teleconnections. <i>Journal of Geophysical Research</i> , 2011 , 116,		17	
56	Association between Uncertainties in Meteorological Variables and Water-Resources Planning for the State of Texas. <i>Journal of Hydrologic Engineering - ASCE</i> , 2011 , 16, 984-999	1.8	17	
55	Drought processes, modeling, and mitigation. <i>Journal of Hydrology</i> , 2015 , 526, 1-2	6	16	
54	Water scarcity-risk assessment in data-scarce river basins under decadal climate change using a hydrological modelling approach. <i>Journal of Hydrology</i> , 2020 , 590, 125260	6	16	
53	Monthly river flow simulation with a joint conditional density estimation network. <i>Water Resources Research</i> , 2013 , 49, 3229-3242	5.4	16	

52	Sensitivity of drought resilience-vulnerability- exposure to hydrologic ratios in contiguous United States. <i>Journal of Hydrology</i> , 2018 , 564, 294-306	6	15
51	Water Deficit Duration and Severity Analysis Based on Runoff Derived from Noah Land Surface Model. <i>Journal of Hydrologic Engineering - ASCE</i> , 2013 , 18, 817-833	1.8	15
50	Sub-basin scale characterization of climate change vulnerability, impacts and adaptation in an Indian River basin. <i>Regional Environmental Change</i> , 2013 , 13, 1087-1098	4.3	15
49	Urban and peri-urban precipitation and air temperature trends in mega cities of the world using multiple trend analysis methods. <i>Theoretical and Applied Climatology</i> , 2018 , 132, 403-418	3	14
48	Impact of global warming and climate change on social development. <i>Journal of Comparative Social Welfare</i> , 2010 , 26, 239-260		12
47	A Holistic View of Water Management Impacts on Future Droughts: A Global Multimodel Analysis. Journal of Geophysical Research D: Atmospheres, 2018 , 123, 5947-5972	4.4	12
46	Teleconnection between low flows and large-scale climate indices in Texas River basins. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018 , 32, 2337-2350	3.5	11
45	Integrated Assessment of no-Regret Climate Change Adaptation Options for Reservoir Catchment and Command Areas. <i>Water Resources Management</i> , 2016 , 30, 1001-1018	3.7	11
44	Seasonal and spatial variations in the scaling and correlation structure of streamflow data. <i>Hydrological Processes</i> , 2013 , 27, 1681-1690	3.3	11
43	Understanding changes in water availability in the Rio Grande/RB Bravo del Norte basin under the influence of large-scale circulation indices using the Noah land surface model. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		10
42	Climate Change and Its Impact on Water Resources 2014 , 525-569		10
41	Determinants of household use of wetland resources in West Bengal, India. <i>Wetlands Ecology and Management</i> , 2015 , 23, 803-816	2.1	9
40	Quantifying climate, streamflow, and watershed control on water quality across Southeastern US watersheds. <i>Science of the Total Environment</i> , 2020 , 739, 139945	10.2	9
39	A novel bias correction framework of TMPA 3B42 daily precipitation data using similarity matrix/homogeneous conditions. <i>Science of the Total Environment</i> , 2019 , 694, 133680	10.2	9
38	Simulating Hydrological Drought Properties at Different Spatial Units in the United States Based on Wavelet B ayesian Regression Approach. <i>Earth Interactions</i> , 2012 , 16, 1-23	1.5	9
37	Evaluation of high-resolution satellite products for streamflow and water quality assessment in a Southeastern US watershed. <i>Journal of Hydrology: Regional Studies</i> , 2020 , 27, 100660	3.6	9
36	Sensitivity of global major crop yields to climate variables: A non-parametric elasticity analysis. <i>Science of the Total Environment</i> , 2020 , 748, 141431	10.2	9
35	Multi-layer high-resolution soil moisture estimation using machine learning over the United States. <i>Remote Sensing of Environment</i> , 2021 , 266, 112706	13.2	9

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34	Spatiotemporal Characteristics and Propagation of Summer Extreme Precipitation Events Over United States: A Complex Network Analysis. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088185	4.9	8
33	Combining climatological and participatory approaches for assessing changes in extreme climatic indices at regional scale. <i>Climatic Change</i> , 2013 , 119, 603-615	4.5	8
32	A brief review of assessment approaches that support evaluation of climate change adaptation options in the water sector. <i>Water Policy</i> , 2014 , 16, 959-972	1.6	8
31	Spatial and temporal variability of Standardized Precipitation Index over Indochina Peninsula. <i>Cuadernos De Investigacion Geografica</i> , 2016 , 42, 221	2.5	8
30	Evaluation of Satellite and Gauge-Based Precipitation Products through Hydrologic Simulation in Tigris River Basin under Data-Scarce Environment. <i>Journal of Hydrologic Engineering - ASCE</i> , 2019 , 24, 05018033	1.8	8
29	Evaluation of soil moisture-precipitation feedback at different time scales over Asia. <i>International Journal of Climatology</i> , 2017 , 37, 3619-3629	3.5	7
28	Development of Climate Data Bias Corrector (CDBC) Tool and Its Application over the Agro-Ecological Zones of India. <i>Water (Switzerland)</i> , 2019 , 11, 1102	3	7
27	Information Entropy Suggests Stronger Nonlinear Associations between Hydro-Meteorological Variables and ENSO. <i>Entropy</i> , 2018 , 20,	2.8	7
26	Evaluation of hydrological effect of stakeholder prioritized climate change adaptation options based on multi-model regional climate projections. <i>Climatic Change</i> , 2014 , 123, 225-239	4.5	6
25	Anthropogenic Warming and Population Growth May Double US Heat Stress by the Late 21st Century. <i>Earth Future</i> , 2021 , 9, e2020EF001886	7.9	6
24	Complex Networks Reveal Heatwave Patterns and Propagations Over the USA. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL090411	4.9	6
23	Evaluation of hydroclimatic variables for maize yield estimation using crop model and remotely sensed data assimilation. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019 , 33, 1283-1295	3.5	5
22	Scaling Characteristics of Precipitation Data over Texas. <i>Journal of Hydrologic Engineering - ASCE</i> , 2011 , 16, 1009-1016	1.8	5
21	Quantifying yield gap for rice cropping systems in Lower Gangetic Plains. <i>Paddy and Water Environment</i> , 2018 , 16, 601-615	1.6	5
20	Support vector machine and data assimilation framework for Groundwater Level Forecasting using GRACE satellite data. <i>Journal of Hydrology</i> , 2021 , 603, 126929	6	5
19	Runoff sensitivity over Asia: Role of climate variables and initial soil conditions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 2218-2238	4.4	4
18	Meteorological and Hydrological Drought Analysis and Its Impact on Water Quality and Stream Integrity. <i>Sustainability</i> , 2021 , 13, 8175	3.6	4
17	Dynamics of virtual water networks: Role of national socio-economic indicators across the world. Journal of Hydrology, 2020 , 589, 125171	6	3

16	Explaining water security indicators using hydrologic and agricultural systems models. <i>Journal of Hydrology</i> , 2022 , 607, 127463	6	3
15	Trend analysis and change point detection of annual and seasonal horizontal visibility trends in Saudi Arabia. <i>Theoretical and Applied Climatology</i> , 2021 , 144, 127-146	3	3
14	Stream water quality prediction using boosted regression tree and random forest models. Stochastic Environmental Research and Risk Assessment,1	3.5	2
13	Estimation of nitrogen status and yield of rice crop using unmanned aerial vehicle equipped with multispectral camera. <i>Journal of Applied Remote Sensing</i> , 2021 , 15,	1.4	2
12	Hydrus-1D for Simulating Potassium Transport in Flooded Paddy Soils. <i>Communications in Soil Science and Plant Analysis</i> ,1-18	1.5	2
11	Cascading effect of meteorological forcing on extreme precipitation events: Role of atmospheric rivers in southeastern US. <i>Journal of Hydrology</i> , 2021 , 601, 126641	6	2
10	Quantifying Spatial Drought Propagation Potential in North America Using Complex Network Theory. Water Resources Research, 2022, 58,	5.4	2
9	A Multivariate Flash Drought Indicator for Identifying Global Hotspots and Associated Climate Controls. <i>Geophysical Research Letters</i> ,	4.9	1
8	Compound impact of drought and COVID-19 on agriculture yield in the USA. <i>Science of the Total Environment</i> , 2022 , 807, 150801	10.2	1
7	Performance of multisite stochastic precipitation models for a tropical monsoon region. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020 , 34, 2159-2177	3.5	1
6	Trend and change point detection in mean annual and seasonal maximum temperatures over Saudi Arabia. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	1
5	Evaluation of land-use, climate change, and low-impact development practices on urban flooding. <i>Hydrological Sciences Journal</i> , 2021 , 66, 1729-1742	3.5	1
4	Relative effect of anthropogenic warming and natural climate variability to changes in Compound drought and heatwaves. <i>Journal of Hydrology</i> , 2022 , 605, 127396	6	О
3	Rainfall and droughts 2022 , 451-474		
2	Influence of Hydrologic Information on Shallow Foundation Design and Analysis in Arid Climates. <i>Sustainable Civil Infrastructures</i> , 2018 , 139-159	0.2	
1	Property Rights and Institutional Arrangements of a Man-Made Wetland in Dryland Area of West Bengal, India. <i>Wetlands</i> , 2020 , 40, 2553-2560	1.7	