

Subimal Ghosh

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.

128 papers	3,776 citations	35 h-index	57 g-index
144 ext. papers	4,753 ext. citations	4.8 avg, IF	6.17 L-index

#	Paper	IF	Citations
128	Statistical downscaling of GCM simulations to streamflow using relevance vector machine. <i>Advances in Water Resources</i> , 2008 , 31, 132-146	4.7	229
127	A threefold rise in widespread extreme rain events over central India. <i>Nature Communications</i> , 2017 , 8, 708	17.4	216
126	Lack of uniform trends but increasing spatial variability in observed Indian rainfall extremes. <i>Nature Climate Change</i> , 2012 , 2, 86-91	21.4	197
125	Increasing probability of mortality during Indian heat waves. <i>Science Advances</i> , 2017 , 3, e1700066	14.3	149
124	Failure of CMIP5 climate models in simulating post-1950 decreasing trend of Indian monsoon. <i>Geophysical Research Letters</i> , 2014 , 41, 7323-7330	4.9	118
123	Weakening of Indian Summer Monsoon Rainfall due to Changes in Land Use Land Cover. <i>Scientific Reports</i> , 2016 , 6, 32177	4.9	103
122	Added value of CMIP6 over CMIP5 models in simulating Indian summer monsoon rainfall. <i>Atmospheric Research</i> , 2020 , 232, 104680	5.4	93
121	Nonparametric methods for modeling GCM and scenario uncertainty in drought assessment. <i>Water Resources Research</i> , 2007 , 43,	5.4	92
120	Modeling GCM and scenario uncertainty using a possibilistic approach: Application to the Mahanadi River, India. <i>Water Resources Research</i> , 2008 , 44,	5.4	87
119	Flip flop of Day-night and Summer-Winter Surface Urban Heat Island Intensity in India. <i>Scientific Reports</i> , 2017 , 7, 40178	4.9	85
118	Intensification of future severe heat waves in India and their effect on heat stress and mortality. <i>Regional Environmental Change</i> , 2015 , 15, 569-579	4.3	85
117	Impacts of urbanization on Indian summer monsoon rainfall extremes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 496-516	4.4	78
116	Near-term acceleration of hydroclimatic change in the western U.S.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 10,676-10,693	4.4	76
115	High-resolution multisite daily rainfall projections in India with statistical downscaling for climate change impacts assessment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 3557-3578	4.4	75
114	Diametric changes in trends and patterns of extreme rainfall over India from pre-1950 to post-1950. <i>Geophysical Research Letters</i> , 2013 , 40, 3253-3258	4.9	75
113	Increased Spatial Variability and Intensification of Extreme Monsoon Rainfall due to Urbanization. <i>Scientific Reports</i> , 2018 , 8, 3918	4.9	74
112	Indian Summer Monsoon Rainfall: Implications of Contrasting Trends in the Spatial Variability of Means and Extremes. <i>PLoS ONE</i> , 2016 , 11, e0158670	3.7	70

111	Precipitation Recycling in the Indian Subcontinent during Summer Monsoon. <i>Journal of Hydrometeorology</i> , 2014 , 15, 2050-2066	3.7	68
110	SVM-PGSL coupled approach for statistical downscaling to predict rainfall from GCM output. <i>Journal of Geophysical Research</i> , 2010 , 115,		68
109	Climate change impact assessment: Uncertainty modeling with imprecise probability. <i>Journal of Geophysical Research</i> , 2009 , 114,		63
108	Do dynamic regional models add value to the global model projections of Indian monsoon?. <i>Climate Dynamics</i> , 2017 , 48, 1375-1397	4.2	61
107	Prediction of daily rainfall state in a river basin using statistical downscaling from GCM output. <i>Stochastic Environmental Research and Risk Assessment</i> , 2011 , 25, 457-474	3.5	60
106	Role of Oceanic and Land Moisture Sources and Transport in the Seasonal and Interannual Variability of Summer Monsoon in India. <i>Journal of Climate</i> , 2017 , 30, 1839-1859	4.4	56
105	Indian summer monsoon: Extreme events, historical changes, and role of anthropogenic forcings. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2019 , 10, e571	8.4	52
104	A nonparametric kernel regression model for downscaling multisite daily precipitation in the Mahanadi basin. <i>Water Resources Research</i> , 2013 , 49, 1360-1385	5.4	51
103	Shift in Indian summer monsoon onset during 1976/1977. <i>Environmental Research Letters</i> , 2015 , 10, 054006	4.6	47
102	Do CMIP5 simulations of Indian summer monsoon rainfall differ from those of CMIP3?. <i>Atmospheric Science Letters</i> , 2014 , 15, 79-85	2.4	47
101	Credibility of statistical downscaling under nonstationary climate. <i>Climate Dynamics</i> , 2016 , 46, 1991-2023	4.2	46
100	Risk minimization in water quality control problems of a river system. <i>Advances in Water Resources</i> , 2006 , 29, 458-470	4.7	46
99	Modelling bivariate rainfall distribution and generating bivariate correlated rainfall data in neighbouring meteorological subdivisions using copula. <i>Hydrological Processes</i> , 2010 , 24, 3558-3567	3.3	41
98	Hydrologic impacts of climate change: Comparisons between hydrological parameter uncertainty and climate model uncertainty. <i>Journal of Hydrology</i> , 2018 , 566, 1-22	6	40
97	Modeling Uncertainty Resulting from Multiple Downscaling Methods in Assessing Hydrological Impacts of Climate Change. <i>Water Resources Management</i> , 2012 , 26, 3559-3579	3.7	39
96	Risk Evaluation in Water Quality Management of a River System. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2004 , 130, 411-423	2.8	39
95	Streamflow prediction using multi-site rainfall obtained from hydroclimatic teleconnection. <i>Journal of Hydrology</i> , 2010 , 395, 23-38	6	38
94	Lack of Dependence of Indian Summer Monsoon Rainfall Extremes on Temperature: An Observational Evidence. <i>Scientific Reports</i> , 2016 , 6, 31039	4.9	36

93	Prediction of extreme rainfall event using weather pattern recognition and support vector machine classifier. <i>Theoretical and Applied Climatology</i> , 2013 , 114, 583-603	3	35
92	Role of Oceanic and Terrestrial Atmospheric Moisture Sources in Intraseasonal Variability of Indian Summer Monsoon Rainfall. <i>Scientific Reports</i> , 2017 , 7, 12729	4.9	32
91	WaterFoodEnergy nexus with changing agricultural scenarios in India during recent decades. <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 3041-3060	5.5	32
90	Comparing statistically downscaled simulations of Indian monsoon at different spatial resolutions. <i>Journal of Hydrology</i> , 2014 , 519, 3163-3177	6	31
89	Urbanization causes nonstationarity in Indian Summer Monsoon Rainfall extremes. <i>Geophysical Research Letters</i> , 2016 , 43, 11,269	4.9	30
88	Future projections of Indian summer monsoon rainfall extremes over India with statistical downscaling and its consistency with observed characteristics. <i>Climate Dynamics</i> , 2018 , 51, 1-15	4.2	29
87	Thinking about water and air to attain Sustainable Development Goals during times of COVID-19 Pandemic. <i>Journal of Earth System Science</i> , 2020 , 129, 1	1.8	29
86	Trend analysis of Indian summer monsoon rainfall at different spatial scales. <i>Atmospheric Science Letters</i> , 2009 , 10, n/a-n/a	2.4	27
85	A new bivariate risk classifier for flood management considering hazard and socio-economic dimensions. <i>Journal of Environmental Management</i> , 2020 , 255, 109733	7.9	25
84	Moisture Supply From the Western Ghats Forests to Water Deficit East Coast of India. <i>Geophysical Research Letters</i> , 2018 , 45, 4337-4344	4.9	23
83	Choice of Irrigation Water Management Practice Affects Indian Summer Monsoon Rainfall and Its Extremes. <i>Geophysical Research Letters</i> , 2019 , 46, 9126-9135	4.9	23
82	Understanding the cascade of GCM and downscaling uncertainties in hydro-climatic projections over India. <i>International Journal of Climatology</i> , 2018 , 38, e178-e190	3.5	23
81	Performance evaluation of WRF for extreme flood forecasts in a coastal urban environment. <i>Atmospheric Research</i> , 2019 , 223, 39-48	5.4	22
80	Fuzzy waste load allocation model: a multiobjective approach. <i>Journal of Hydroinformatics</i> , 2010 , 12, 83-96	2.6	22
79	Evaluation of global climate models for Indian monsoon climatology. <i>Environmental Research Letters</i> , 2012 , 7, 014012	6.2	22
78	The Chennai extreme rainfall event in 2015: The Bay of Bengal connection. <i>Climate Dynamics</i> , 2018 , 50, 2867-2879	4.2	20
77	Evaluation of wind extremes and wind potential under changing climate for Indian offshore using ensemble of 10 GCMs. <i>Ocean and Coastal Management</i> , 2016 , 121, 141-152	3.9	20
76	The influence of the El Niño Southern Oscillation on heat waves in India. <i>Meteorological Applications</i> , 2016 , 23, 705-713	2.1	20

75	Assessing Hydrological Impacts of Climate Change: Modeling Techniques and Challenges. <i>The Open Hydrology Journal</i> , 2010 , 4, 115-121		19
74	Use of Atmospheric Budget to Reduce Uncertainty in Estimated Water Availability over South Asia from Different Reanalyses. <i>Scientific Reports</i> , 2016 , 6, 29664	4.9	19
73	Uncertainty resulting from multiple data usage in statistical downscaling. <i>Geophysical Research Letters</i> , 2014 , 41, 4013-4019	4.9	18
72	Disentangling sea-surface temperature and anthropogenic aerosol influences on recent trends in South Asian monsoon rainfall. <i>Climate Dynamics</i> , 2019 , 52, 2287-2302	4.2	16
71	Changes in the design and operational wind due to climate change at the Indian offshore sites. <i>Marine Structures</i> , 2014 , 37, 33-53	3.8	16
70	Urbanization alters rainfall extremes over the contiguous United States. <i>Environmental Research Letters</i> , 2020 , 15, 074033	6.2	15
69	Coupled Land-Atmosphere Regional Model Reduces Dry Bias in Indian Summer Monsoon Rainfall Simulated by CFSv2. <i>Geophysical Research Letters</i> , 2018 , 45, 2476-2486	4.9	15
68	Future urban rainfall projections considering the impacts of climate change and urbanization with statistical-dynamical integrated approach. <i>Climate Dynamics</i> , 2019 , 52, 6033-6051	4.2	15
67	Characteristics of Bay of Bengal Monsoon Depressions in the 21st Century. <i>Geophysical Research Letters</i> , 2018 , 45, 6637-6645	4.9	15
66	Multi-ensemble regional simulation of Indian monsoon during contrasting rainfall years: role of convective schemes and nested domain. <i>Climate Dynamics</i> , 2018 , 50, 4127-4147	4.2	14
65	Improving Global Forecast System of extreme precipitation events with regional statistical model: Application of quantile-based probabilistic forecasts. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 1617-1634	4.4	13
64	Spatio-temporal analysis of sub-hourly rainfall over Mumbai, India: Is statistical forecasting futile?. <i>Journal of Earth System Science</i> , 2017 , 126, 1	1.8	13
63	Improved simulation of very heavy rainfall events by incorporating WUDAPT urban land use/land cover in WRF. <i>Urban Climate</i> , 2020 , 32, 100616	6.8	13
62	Predicting Sea Surface Temperatures in the North Indian Ocean with Nonlinear Autoregressive Neural Networks. <i>International Journal of Oceanography</i> , 2013 , 2013, 1-11		13
61	Assimilation of Doppler Weather Radar data with a regional WRF-3DVAR system: Impact of control variables on forecasts of a heavy rainfall case. <i>Advances in Water Resources</i> , 2019 , 126, 24-39	4.7	11
60	Regionalized Design Rainfall Estimation: an Appraisal of Inundation Mapping for Flood Management Under Data-Scarce Situations. <i>Water Resources Management</i> , 2018 , 32, 4725-4746	3.7	11
59	Flood evacuation during pandemic: a multi-objective framework to handle compound hazard. <i>Environmental Research Letters</i> , 2021 , 16, 034034	6.2	11
58	Climate change impact assessment of a river basin using CMIP5 climate models and the VIC hydrological model. <i>Hydrological Sciences Journal</i> , 2018 , 63, 596-614	3.5	10

57	The Impact of Land Cover and Land Use Change on the Indian Monsoon Region Hydroclimate. <i>Springer Remote Sensing/photogrammetry</i> , 2018 , 553-575	0.2	10
56	Projections of Extreme Dry and Wet Spells in the 21st Century India Using Stationary and Non-stationary Standardized Precipitation Indices. <i>Climatic Change</i> , 2016 , 139, 667-681	4.5	10
55	Tide-rainfall flood quotient: an incisive measure of comprehending a region's response to storm-tide and pluvial flooding. <i>Environmental Research Letters</i> , 2020 , 15, 064029	6.2	10
54	Increasing agricultural risk to hydro-climatic extremes in India. <i>Environmental Research Letters</i> , 2020 , 15, 034010	6.2	10
53	A comprehensive India-wide social vulnerability analysis: highlighting its influence on hydro-climatic risk. <i>Environmental Research Letters</i> , 2020 , 15, 014005	6.2	9
52	CLIMATE CHANGE IMPACT ON HYDROLOGY AND WATER RESOURCES. <i>ISH Journal of Hydraulic Engineering</i> , 2008 , 14, 1-17	1.5	9
51	Sensitivity of various topographic data in flood management: Implications on inundation mapping over large data-scarce regions. <i>Journal of Hydrology</i> , 2020 , 590, 125523	6	9
50	Diametrically Opposite Scaling of Extreme Precipitation and Streamflow to Temperature in South and Central Asia. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089386	4.9	9
49	Capturing transformation of flood hazard over a large River Basin under changing climate using a top-down approach. <i>Science of the Total Environment</i> , 2020 , 726, 138600	10.2	9
48	A Framework for Investigating the Diagnostic Trend in Stationary and Nonstationary Flood Frequency Analyses Under Changing Climate. <i>Journal of Climate Change</i> , 2015 , 1, 47-65	0.7	8
47	Engaging the User Community for Advancing Societal Applications of the Surface Water Ocean Topography Mission. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, ES285-ES290	6.1	7
46	Climate controls on the terrestrial water balance: Influence of aridity on the basin characteristics parameter in the Budyko framework. <i>Science of the Total Environment</i> , 2020 , 739, 139863	10.2	7
45	On the role of rainfall deficits and cropping choices in loss of agricultural yield in Marathwada, India. <i>Environmental Research Letters</i> , 2020 ,	6.2	7
44	Assessment of the interannual variability of local atmospheric and ITF contribution to the subsurface heat content of southern tropical Indian Ocean in GECCO2 and ORAS4 using ROMS. <i>Global and Planetary Change</i> , 2019 , 181, 102974	4.2	7
43	Breaking out of the Box: India and Climate Action on Short-Lived Climate Pollutants. <i>Environmental Science & Technology</i> , 2016 , 50, 12527-12529	10.3	7
42	Multi-Scale Association between Vegetation Growth and Climate in India: A Wavelet Analysis Approach. <i>Remote Sensing</i> , 2019 , 11, 2703	5	7
41	Understanding the role of moisture transport on the dry bias in indian monsoon simulations by CFSv2. <i>Climate Dynamics</i> , 2019 , 52, 637-651	4.2	7
40	Decadal temperature predictions over the continental United States: Analysis and Enhancement. <i>Climate Dynamics</i> , 2017 , 49, 3587-3604	4.2	6

39	A minimalistic seasonal prediction model for Indian monsoon based on spatial patterns of rainfall anomalies. <i>Climate Dynamics</i> , 2019 , 52, 3661-3681	4.2	6
38	Observed Evidence for Steep Rise in the Extreme Flow of Western Himalayan Rivers. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087815	4.9	6
37	Early Prediction of Extreme Rainfall Events: A Deep Learning Approach. <i>Lecture Notes in Computer Science</i> , 2016 , 154-167	0.9	6
36	Uncertainty Quantification in Water Resource Systems Modeling: Case Studies from India. <i>Water (Switzerland)</i> , 2020 , 12, 1793	3	5
35	Perturbations in the initial soil moisture conditions: Impacts on hydrologic simulation in a large river basin. <i>Journal of Hydrology</i> , 2018 , 561, 509-522	6	5
34	Impact of active and break wind spells on the demandSupply balance in wind energy in India. <i>Meteorology and Atmospheric Physics</i> , 2018 , 130, 81-97	2	5
33	Framework for assessment of climate change impact on offshore wind energy. <i>Meteorological Applications</i> , 2018 , 25, 94-104	2.1	5
32	An Improved Prediction of Indian Summer Monsoon Onset From State-of-the-Art Dynamic Model Using Physics-Guided Data-Driven Approach. <i>Geophysical Research Letters</i> , 2018 , 45, 8510-8518	4.9	5
31	Effect of Climate Change on Wind Persistence at Selected Indian Offshore Locations. <i>Procedia Engineering</i> , 2015 , 116, 615-622		5
30	Water Food Energy Nexus: Changing Scenarios in India during recent Decades		5
29	Components of Himalayan River Flows in a Changing Climate. <i>Water Resources Research</i> , 2021 , 57, e2020WR027589	3.4	5
28	Urbanisation and Surface Urban Heat Island Intensity (SUHI) 2019 , 73-90		4
27	Can the weakening of Indian Monsoon be attributed to anthropogenic aerosols?. <i>Environmental Research Communications</i> , 2019 , 1, 061006	3.1	4
26	Extreme Storms 2020 , 155-173		4
25	Partitioning of memory and real-time connections between variables in Himalayan ecohydrological process networks. <i>Journal of Hydrology</i> , 2020 , 590, 125434	6	4
24	Role of vertical velocity in improving finer scale statistical downscaling for projection of extreme precipitation. <i>Theoretical and Applied Climatology</i> , 2019 , 137, 791-804	3	4
23	Improving Convective Precipitation Forecasts Using Ensemble-Based Background Error Covariance in 3DVAR Radar Assimilation System. <i>Earth and Space Science</i> , 2020 , 7, e2019EA000667	3.1	3
22	Exploring the potential of SWOT mission for reservoir monitoring in Mahanadi basin. <i>Advances in Space Research</i> , 2022 , 69, 1481-1493	2.4	3

21	Flood risk forecasting at weather to medium range incorporating weather model, topography, socio-economic information and land use exposure. <i>Advances in Water Resources</i> , 2020 , 146, 103785	4.7	3
20	Performance of the CORDEX regional climate models in simulating offshore wind and wind potential. <i>Theoretical and Applied Climatology</i> , 2019 , 135, 1449-1464	3	3
19	Significance of 4DVAR Radar Data Assimilation in Weather Research and Forecast Model-Based Nowcasting System. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031369	4.4	2
18	Future Heat Wave Projections and Impacts 2019 , 91-107		2
17	Short and Medium Range Irrigation Scheduling Using Stochastic Simulation-Optimization Framework With Farm-Scale Ecohydrological Model and Weather Forecasts. <i>Water Resources Research</i> , 2021 , 57, e2020WR029004	5.4	2
16	Does statistical model perform at par with computationally expensive general circulation model for decadal prediction?. <i>Environmental Research Letters</i> , 2021 , 16, 064028	6.2	2
15	Impact of green roofs on heavy rainfall in tropical, coastal urban area. <i>Environmental Research Letters</i> , 2021 , 16, 074051	6.2	2
14	Relative Impacts of Projected Climate and Land Use Changes on Terrestrial Water Balance: A Case Study on Ganga River Basin. <i>Frontiers in Water</i> , 2020 , 2,	2.6	1
13	Pollutants control the process networks of urban environmental-meteorology. <i>Environmental Research Letters</i> , 2021 , 16, 014021	6.2	1
12	Gravimetry-based water storage shifting over the China-India border area controlled by regional climate variability. <i>Science of the Total Environment</i> , 2020 , 714, 136360	10.2	1
11	Revamping extended range forecast of Indian summer monsoon. <i>Climate Dynamics</i> , 2020 , 55, 3397-3411	4.2	1
10	Feedback From Vegetation to Interannual Variations of Indian Summer Monsoon Rainfall. <i>Water Resources Research</i> , 2021 , 57, e2020WR028750	5.4	1
9	Can statistical downscaling improve consensus among CMIP5 models for Indian summer monsoon rainfall projections?. <i>International Journal of Climatology</i> , 2018 , 38, 2449-2461	3.5	1
8	Land-Surface Feedback and Impacts of Land-Use Change to Indian Monsoon Rainfall 2019 , 3-20		0
7	Flood Modelling for an Urban Indian Catchment: Challenges and Way Forward. <i>Lecture Notes in Civil Engineering</i> , 2022 , 51-62	0.3	0
6	Hazard at weather scale for extreme rainfall forecast reduces uncertainty. <i>Water Security</i> , 2021 , 14, 100106	3.06	0
5	Radar reflectivity and radial velocity assimilation in a hybrid ETKF-3DVAR system for prediction of a heavy convective rainfall. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021 , 147, 2264-2280	6.4	0
4	Rationalization of automatic weather stations network over a coastal urban catchment: A multivariate approach. <i>Atmospheric Research</i> , 2021 , 254, 105511	5.4	0

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| 3 | Identification of flood seasonality and drivers across Canada. <i>Hydrological Processes</i> , 2021 , 35, e14398 | 3.3 | 0 |
| 2 | IMPRECISE PROBABILITY FOR MODELING PARTIAL IGNORANCE: APPLICATION TO WASTE LOAD ALLOCATION IN A RIVER SYSTEM. <i>ISH Journal of Hydraulic Engineering</i> , 2009 , 15, 258-271 | 1.5 | |
| 1 | LandAtmosphere Interactions in Indian Monsoon at Sub-seasonal to Seasonal Scale. <i>Springer Water</i> , 2019 , 139-152 | 0.3 | |