Ankit Agarwal

List of Publications by Year
in descending order

47 papers	1,145 citations	304701 22 h-index	434170 31 g-index
93 all docs	93 docs citations	93 times ranked	784 citing authors

#	Article	IF	Citations
1	Multi-scale investigation on streamflow temporal variability and its connection to global climate indices for unregulated rivers in India. Journal of Water and Climate Change, 2022, 13, 735-757.	2.9	8
2	Impact of climate change on stormwater drainage in urban areas. Stochastic Environmental Research and Risk Assessment, 2022, 36, 77-96.	4.0	12
3	Multiscale investigation of precipitation extremes over Ethiopia and teleconnections to large-scale climate anomalies. Stochastic Environmental Research and Risk Assessment, 2022, 36, 1503-1519.	4.0	10
4	Quantile-based Bayesian Model Averaging approach towards merging of precipitation products. Journal of Hydrology, 2022, 604, 127206.	5.4	31
5	Investigation of satellite precipitation product driven rainfall-runoff model using deep learning approaches in two different catchments of India. Journal of Hydroinformatics, 2022, 24, 16-37.	2.4	9
6	A complex network approach to study the extreme precipitation patterns in a river basin. Chaos, 2022, 32, 013113.	2.5	14
7	Investigating streamflow variability and hydroclimatic teleconnections: a comparison of regulated and unregulated streamflow stations. Journal of Water and Climate Change, 2022, 13, 1123-1150.	2.9	2
8	Investigating the impact of calibration timescales on streamflow simulation, parameter sensitivity and model performance for Indian catchments. Hydrological Sciences Journal, 2022, 67, 661-675.	2.6	3
9	Multi-objective optimization for stormwater management by green-roofs and infiltration trenches to reduce urban flooding in central Delhi. Journal of Hydrology, 2022, 606, 127455.	5.4	37
10	Emerging Hydro-Climatic Patterns, Teleconnections, and Extreme Events in Changing World at Different Timescales. Atmosphere, 2022, 13, 56.	2.3	0
11	Spatiotemporal dependence of soil moisture and precipitation over India. Journal of Hydrology, 2022, 610, 127898.	5.4	10
12	Constructed wetland management in urban catchments for mitigating floods. Stochastic Environmental Research and Risk Assessment, 2021, 35, 2105-2124.	4.0	10
13	Multiscale Spatiotemporal Analysis of Extreme Events in the Gomati River Basin, India. Atmosphere, 2021, 12, 480.	2.3	14
14	Exploring Artificial Intelligence Techniques for Groundwater Quality Assessment. Water (Switzerland), 2021, 13, 1172.	2.7	37
15	Network-based exploration of basin precipitation based on satellite and observed data. European Physical Journal: Special Topics, 2021, 230, 3343.	2.6	11
16	Game-theoretic-based modelling of Krishna waters dispute: equilibrium solutions by Metagame Analysis. European Physical Journal B, 2021, 94, 1.	1.5	2
17	Game theoretic-based modelling of Krishna waters dispute: equilibrium solutions by hypergame analysis. European Physical Journal B, 2021, 94, 1.	1.5	3
18	Ranking and characterization of precipitation extremes for the past 113 years for Indian western Himalayas. International Journal of Climatology, 2021, 41, 6602-6615.	3.5	11

#	Article	IF	Citations
19	Disentangling increasing compound extremes at regional scale during Indian summer monsoon. Scientific Reports, 2021, 11, 16447.	3.3	20
20	Intercomparison of downscaling methods for daily precipitation with emphasis on wavelet-based hybrid models. Journal of Hydrology, 2021, 599, 126373.	5.4	13
21	Metagame analysis of Cauvery River dispute incorporating interannual variability in virgin runoff potential of the basin. European Physical Journal B, 2021, 94, 1.	1.5	0
22	Investigation of Precipitation Variability and Extremes Using Information Theory. Environmental Sciences Proceedings, 2021, 4, 14.	0.3	2
23	Complexity-based approach for El Niño magnitude forecasting before the spring predictability barrier. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 177-183.	7.1	37
24	Inter-Comparison of Gauge-Based Gridded Data, Reanalysis and Satellite Precipitation Product with an Emphasis on Hydrological Modeling. Atmosphere, 2020, 11, 1252.	2.3	27
25	A novel method to improve vertical accuracy of CARTOSAT DEM using machine learning models. Earth Science Informatics, 2020, 13, 1139-1150.	3.2	8
26	Optimal design of hydrometric station networks based on complex network analysis. Hydrology and Earth System Sciences, 2020, 24, 2235-2251.	4.9	31
27	Forecasting of extreme flood events using different satellite precipitation products and wavelet-based machine learning methods. Chaos, 2020, 30, 063115.	2.5	34
28	Wavelet entropy-based evaluation of intrinsic predictability of time series. Chaos, 2020, 30, 033117.	2.5	40
29	Accounting for temporal variability for improved precipitation regionalization based on self-organizing map coupled with information theory. Journal of Hydrology, 2020, 590, 125236.	5.4	28
30	Spatiotemporal variability of Indian rainfall using multiscale entropy. Journal of Hydrology, 2020, 587, 124916.	5.4	42
31	Disentangling the multi-scale effects of sea-surface temperatures on global precipitation: A coupled networks approach. Chaos, 2019, 29, 063116.	2.5	21
32	Unravelling the spatial diversity of Indian precipitation teleconnections via a non-linear multi-scale approach. Nonlinear Processes in Geophysics, 2019, 26, 251-266.	1.3	49
33	Wavelet analysis of precipitation extremes over India and teleconnections to climate indices. Stochastic Environmental Research and Risk Assessment, 2019, 33, 2053-2069.	4.0	48
34	Network-based identification and characterization of teleconnections on different scales. Scientific Reports, 2019, 9, 8808.	3.3	48
35	Farmer typology to understand differentiated climate change adaptation in Himalaya. Scientific Reports, 2019, 9, 20375.	3.3	36
36	Climate change perception: an analysis of climate change and risk perceptions among farmer types of Indian Western Himalayas. Climatic Change, 2019, 152, 103-119.	3.6	58

#	Article	IF	Citations
37	Unfolding Community Structure in Rainfall Network of Germany Using Complex Network-Based Approach. , 2019, , 179-193.		4
38	Do Perceptions Of Climate Change And Its Impacts Differ Among Farmers In Indian Western Himalayas?Â. , 2019, , .		0
39	Rare flash floods and debris flows in southern Germany. Science of the Total Environment, 2018, 626, 941-952.	8.0	44
40	Forensic hydro-meteorological analysis of an extreme flash flood: The 2016-05-29 event in Braunsbach, SW Germany. Science of the Total Environment, 2018, 630, 977-991.	8.0	62
41	Wavelet-based multiscale similarity measure for complex networks. European Physical Journal B, 2018, 91, 1.	1.5	18
42	Quantifying the roles of single stations within homogeneous regions using complex network analysis. Journal of Hydrology, 2018, 563, 802-810.	5.4	43
43	Complex networks for tracking extreme rainfall during typhoons. Chaos, 2018, 28, 075301.	2.5	28
44	Quantifying The Roles Of Single Rain Gauges Within Homogeneous Regions Of A Rainfall Network. , 2018, , .		0
45	Multi-scale event synchronization analysis for unravelling climate processes: a wavelet-based approach. Nonlinear Processes in Geophysics, 2017, 24, 599-611.	1.3	41
46	Hydrologic regionalization using wavelet-based multiscale entropy method. Journal of Hydrology, 2016, 538, 22-32.	5.4	86
47	Wavelet Spectrum and Self-Organizing Maps-Based Approach for Hydrologic Regionalization -a Case Study in the Western United States. Water Resources Management, 2016, 30, 4399-4413.	3.9	38