

# Ankit Agarwal

## List of Publications by Citations

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43  
papers

543  
citations

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h-index

22  
g-index

91  
ext. papers

818  
ext. citations

4  
avg, IF

4.43  
L-index

#	Paper	IF	Citations
43	Hydrologic regionalization using wavelet-based multiscale entropy method. <i>Journal of Hydrology</i> , <b>2016</b> , 538, 22-32	6	62
42	Forensic hydro-meteorological analysis of an extreme flash flood: The 2016-05-29 event in Braunsbach, SW Germany. <i>Science of the Total Environment</i> , <b>2018</b> , 630, 977-991	10.2	40
41	Multi-scale event synchronization analysis for unravelling climate processes: a wavelet-based approach. <i>Nonlinear Processes in Geophysics</i> , <b>2017</b> , 24, 599-611	2.9	33
40	Climate change perception: an analysis of climate change and risk perceptions among farmer types of Indian Western Himalayas. <i>Climatic Change</i> , <b>2019</b> , 152, 103-119	4.5	33
39	Rare flash floods and debris flows in southern Germany. <i>Science of the Total Environment</i> , <b>2018</b> , 626, 941-952	10.2	30
38	Wavelet Spectrum and Self-Organizing Maps-Based Approach for Hydrologic Regionalization -a Case Study in the Western United States. <i>Water Resources Management</i> , <b>2016</b> , 30, 4399-4413	3.7	30
37	Network-based identification and characterization of teleconnections on different scales. <i>Scientific Reports</i> , <b>2019</b> , 9, 8808	4.9	27
36	Unravelling the spatial diversity of Indian precipitation teleconnections via a non-linear multi-scale approach. <i>Nonlinear Processes in Geophysics</i> , <b>2019</b> , 26, 251-266	2.9	27
35	Quantifying the roles of single stations within homogeneous regions using complex network analysis. <i>Journal of Hydrology</i> , <b>2018</b> , 563, 802-810	6	27
34	Complex networks for tracking extreme rainfall during typhoons. <i>Chaos</i> , <b>2018</b> , 28, 075301	3.3	21
33	Complexity-based approach for El Niño magnitude forecasting before the spring predictability barrier. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 177-183	11.5	21
32	Optimal design of hydrometric station networks based on complex network analysis. <i>Hydrology and Earth System Sciences</i> , <b>2020</b> , 24, 2235-2251	5.5	19
31	Wavelet analysis of precipitation extremes over India and teleconnections to climate indices. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2019</b> , 33, 2053-2069	3.5	19
30	Spatiotemporal variability of Indian rainfall using multiscale entropy. <i>Journal of Hydrology</i> , <b>2020</b> , 587, 124916	6	18
29	Wavelet entropy-based evaluation of intrinsic predictability of time series. <i>Chaos</i> , <b>2020</b> , 30, 033117	3.3	17
28	Forecasting of extreme flood events using different satellite precipitation products and wavelet-based machine learning methods. <i>Chaos</i> , <b>2020</b> , 30, 063115	3.3	15
27	Disentangling the multi-scale effects of sea-surface temperatures on global precipitation: A coupled networks approach. <i>Chaos</i> , <b>2019</b> , 29, 063116	3.3	15

26	Farmer typology to understand differentiated climate change adaptation in Himalaya. <i>Scientific Reports</i> , <b>2019</b> , 9, 20375	4.9	15
25	Accounting for temporal variability for improved precipitation regionalization based on self-organizing map coupled with information theory. <i>Journal of Hydrology</i> , <b>2020</b> , 590, 125236	6	12
24	Wavelet-based multiscale similarity measure for complex networks. <i>European Physical Journal B</i> , <b>2018</b> , 91, 1	1.2	11
23	Constructed wetland management in urban catchments for mitigating floods. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2021</b> , 35, 2105-2124	3.5	6
22	Inter-Comparison of Gauge-Based Gridded Data, Reanalysis and Satellite Precipitation Product with an Emphasis on Hydrological Modeling. <i>Atmosphere</i> , <b>2020</b> , 11, 1252	2.7	5
21	Multiscale Spatiotemporal Analysis of Extreme Events in the Gomati River Basin, India. <i>Atmosphere</i> , <b>2021</b> , 12, 480	2.7	4
20	Exploring Artificial Intelligence Techniques for Groundwater Quality Assessment. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 1172	3	4
19	Ranking and characterization of precipitation extremes for the past 113 years for Indian western Himalayas. <i>International Journal of Climatology</i> ,	3.5	4
18	Multi-objective optimization for stormwater management by green-roofs and infiltration trenches to reduce urban flooding in central Delhi. <i>Journal of Hydrology</i> , <b>2022</b> , 606, 127455	6	3
17	Disentangling increasing compound extremes at regional scale during Indian summer monsoon. <i>Scientific Reports</i> , <b>2021</b> , 11, 16447	4.9	3
16	Quantile-based Bayesian Model Averaging approach towards merging of precipitation products. <i>Journal of Hydrology</i> , <b>2021</b> , 127206	6	2
15	Optimal Design of Hydrometric Station Networks Based on Complex Network Analysis		2
14	Unraveling the spatial diversity of Indian precipitation teleconnections via nonlinear multi-scale approach		2
13	A novel method to improve vertical accuracy of CARTOSAT DEM using machine learning models. <i>Earth Science Informatics</i> , <b>2020</b> , 13, 1139-1150	2.5	2
12	Network-based exploration of basin precipitation based on satellite and observed data. <i>European Physical Journal: Special Topics</i> , <b>2021</b> , 230, 3343	2.3	2
11	Unfolding Community Structure in Rainfall Network of Germany Using Complex Network-Based Approach <b>2019</b> , 179-193		2
10	Intercomparison of downscaling methods for daily precipitation with emphasis on wavelet-based hybrid models. <i>Journal of Hydrology</i> , <b>2021</b> , 599, 126373	6	2
9	A complex network approach to study the extreme precipitation patterns in a river basin.. <i>Chaos</i> , <b>2022</b> , 32, 013113	3.3	1

8	Investigation of Precipitation Variability and Extremes Using Information Theory. <i>Environmental Sciences Proceedings</i> , <b>2021</b> , 4, 14	1	1
7	Impact of climate change on stormwater drainage in urban areas. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	1
6	Multiscale investigation of precipitation extremes over Ethiopia and teleconnections to large-scale climate anomalies. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	1
5	Game-theoretic-based modelling of Krishna waters dispute: equilibrium solutions by Metagame Analysis. <i>European Physical Journal B</i> , <b>2021</b> , 94, 1	1.2	1
4	Game theoretic-based modelling of Krishna waters dispute: equilibrium solutions by hypergame analysis. <i>European Physical Journal B</i> , <b>2021</b> , 94, 1	1.2	1
3	Rainfall Projection in Yamuna River Basin, India, Using Statistical Downscaling <b>2019</b> , 15-23		0
2	Spatiotemporal Dependence of Soil Moisture and Precipitation over India. <i>Journal of Hydrology</i> , <b>2022</b> , 127898	6	0
1	Metagame analysis of Cauvery River dispute incorporating interannual variability in virgin runoff potential of the basin. <i>European Physical Journal B</i> , <b>2021</b> , 94, 1	1.2	