

Anupam Hazra

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,410
citations

394421

19
h-index

361022

35
g-index

52
all docs

52
docs citations

52
times ranked

1462
citing authors

#	ARTICLE	IF	CITATIONS
1	A Classical-Theory-Based Parameterization of Heterogeneous Ice Nucleation by Mineral Dust, Soot, and Biological Particles in a Global Climate Model. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 2483-2503.	1.7	348
2	Improved simulation of Indian summer monsoon in latest NCEP climate forecast system free run. <i>International Journal of Climatology</i> , 2014, 34, 1628-1641.	3.5	100
3	Role of interaction between dynamics, thermodynamics and cloud microphysics on summer monsoon precipitating clouds over the Myanmar Coast and the Western Ghats. <i>Climate Dynamics</i> , 2014, 43, 911-924.	3.8	98
4	Role of Interactions between Aerosol Radiative Effect, Dynamics, and Cloud Microphysics on Transitions of Monsoon Intraseasonal Oscillations. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 2073-2087.	1.7	63
5	Unraveling the Mystery of Indian Summer Monsoon Prediction: Improved Estimate of Predictability Limit. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1962-1974.	3.3	59
6	Potential predictability of Indian summer monsoon rainfall in NCEP CFSv2. <i>Journal of Advances in Modeling Earth Systems</i> , 2016, 8, 96-120.	3.8	48
7	Seasonal prediction of Indian summer monsoon rainfall in NCEP CFSv2: forecast and predictability error. <i>Climate Dynamics</i> , 2016, 46, 2305-2326.	3.8	42
8	Impact of revised cloud microphysical scheme in CFSv2 on the simulation of the Indian summer monsoon. <i>International Journal of Climatology</i> , 2015, 35, 4738-4755.	3.5	40
9	Effect of the better representation of the cloud ice-nucleation in WRF microphysics schemes: A case study of a severe storm in India. <i>Atmospheric Research</i> , 2015, 154, 155-174.	4.1	35
10	Effect of cloud microphysics on Indian summer monsoon precipitating clouds: A coupled climate modeling study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 3786-3805.	3.3	34
11	Role of interactions between cloud microphysics, dynamics and aerosol in the heavy rainfall event of June 2013 over Uttarakhand, India. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 986-998.	2.7	31
12	Progress Towards Achieving the Challenge of Indian Summer Monsoon Climate Simulation in a Coupled Ocean-Atmosphere Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 2268-2290.	3.8	29
13	Dynamical features of incessant heavy rainfall event of June 2013 over Uttarakhand, India. <i>Natural Hazards</i> , 2016, 80, 1579-1601.	3.4	27
14	Effects of multilayer snow scheme on the simulation of snow: Offline Noah and coupled with NCEP CFSv2. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 271-290.	3.8	27
15	A diagnostic study of cloud physics and lightning flash rates in a severe pre-monsoon thunderstorm over northeast India. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 1901-1922.	2.7	27
16	Does the modification in critical relative humidity of NCEP CFSv2 dictate Indian mean summer monsoon forecast? Evaluation through thermodynamical and dynamical aspects. <i>Climate Dynamics</i> , 2016, 46, 1197-1222.	3.8	25
17	Evaluation of Different Heat Flux Products Over the Tropical Indian Ocean. <i>Earth and Space Science</i> , 2020, 7, e2019EA000988.	2.6	23
18	Indian summer monsoon precipitating clouds: role of microphysical process rates. <i>Climate Dynamics</i> , 2016, 46, 2551-2571.	3.8	22

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19	The effect of mineral dust and soot aerosols on ice microphysics near the foothills of the Himalayas: A numerical investigation. <i>Atmospheric Research</i> , 2016, 171, 41-55.	4.1	20
20	Evaluating different lightning parameterization schemes to simulate lightning flash counts over Maharashtra, India. <i>Atmospheric Research</i> , 2021, 255, 105532.	4.1	20
21	Study of cloud microphysical properties over India during CAIPEEX using a mesoscale model with new cloud microphysical scheme—Part I. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013, 93, 29-44.	1.6	17
22	Seminal role of stratiform clouds in large-scale aggregation of tropical rain in boreal summer monsoon intraseasonal oscillations. <i>Climate Dynamics</i> , 2017, 48, 999-1015.	3.8	17
23	Study of ice nucleating characteristics of <i>Pseudomonas aeruginosa</i> . <i>Journal of Aerosol Science</i> , 2004, 35, 1405-1414.	3.8	16
24	Predictability of global monsoon rainfall in NCEP CFSv2. <i>Climate Dynamics</i> , 2016, 47, 1693-1715.	3.8	16
25	Indian summer monsoon simulations with CFSv2: a microphysics perspective. <i>Theoretical and Applied Climatology</i> , 2016, 125, 253-269.	2.8	14
26	Hindcast skill improvement in Climate Forecast System (CFSv2) using modified cloud scheme. <i>International Journal of Climatology</i> , 2018, 38, 2994-3012.	3.5	14
27	Interplay Between Subseasonal Rainfall and Global Predictors in Modulating Interannual to Multidecadal Predictability of the ISMR. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	14
28	Clouds—SST relationship and interannual variability modes of Indian summer monsoon in the context of clouds and SSTs: observational and modelling aspects. <i>International Journal of Climatology</i> , 2016, 36, 4723-4740.	3.5	13
29	Quantification of Observed Electrical Effect on the Raindrop Size Distribution in Tropical Clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4527-4544.	3.3	13
30	Evaluation of cloud properties in the NCEP CFSv2 model and its linkage with Indian summer monsoon. <i>Theoretical and Applied Climatology</i> , 2016, 124, 31-41.	2.8	12
31	Improved depiction of Indian summer monsoon in latest high resolution NCEP climate forecast system reanalysis. <i>International Journal of Climatology</i> , 2015, 35, 3102-3119.	3.5	10
32	Aerosols impact on the convective and non-convective rain distribution over the Indian region: Results from WRF-Chem simulation. <i>Atmospheric Environment</i> , 2019, 202, 64-74.	4.1	10
33	Role of convective and microphysical processes on the simulation of monsoon intraseasonal oscillation. <i>Climate Dynamics</i> , 2020, 55, 2377-2403.	3.8	10
34	Improvement in convective and stratiform rain fractions over the Indian region with introduction of new ice nucleation parameterization in ECHAM5. <i>Theoretical and Applied Climatology</i> , 2015, 120, 173-182.	2.8	9
35	SST and OLR relationship during Indian summer monsoon: a coupled climate modelling perspective. <i>Meteorology and Atmospheric Physics</i> , 2018, 130, 211-225.	2.0	9
36	Role of cloud microphysics in improved simulation of the Asian monsoon quasi-biweekly mode (QBM). <i>Climate Dynamics</i> , 2020, 54, 599-614.	3.8	9

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37	Role of mineral dust, soot, and bacteria in cloud and precipitation formation processes over Indian subcontinent using an atmospheric general circulation model. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013, 98, 74-85.	1.6	8
38	Atmospheric ice nuclei concentration measurements over a high altitude-station in the Western Ghats, India. <i>Atmospheric Research</i> , 2020, 235, 104795.	4.1	8
39	Reply to Comment by E. T. Swenson, D. Das, and J. Shukla on "Unraveling the Mystery of Indian Summer Monsoon Prediction: Improved Estimate of Predictability Limit". <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD033242.	3.3	7
40	Atmospheric ice nucleating particle measurements and parameterization representative for Indian region. <i>Atmospheric Research</i> , 2021, 253, 105487.	4.1	7
41	Lightning and precipitation: The possible electrical modification of observed raindrop size distributions. <i>Atmospheric Research</i> , 2021, 259, 105663.	4.1	7
42	Seasonal Predictability of Lightning Over the Global Hotspot Regions. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	7
43	Unraveling the global teleconnections of Indian summer monsoon clouds: expedition from CMIP5 to CMIP6. <i>Global and Planetary Change</i> , 2022, 215, 103873.	3.5	7
44	On unravelling mechanism of interplay between cloud and large scale circulation: a grey area in climate science. <i>Climate Dynamics</i> , 2019, 52, 1547-1568.	3.8	6
45	Role of Microphysics and Convective Autoconversion for the Better Simulation of Tropical Intraseasonal Oscillations (MISO and MJO). <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002540.	3.8	6
46	Evaluation and Usefulness of Lightning Forecasts Made with Lightning Parameterization Schemes Coupled with the WRF Model. <i>Weather and Forecasting</i> , 2022, 37, 709-726.	1.4	6
47	Contrast in monsoon precipitation over oceanic region of north Bay of Bengal and east equatorial Indian Ocean. <i>International Journal of Climatology</i> , 2018, 38, e1061.	3.5	5
48	Simulation of extreme Indian summer monsoon years in Coupled Model Intercomparison Project Phase 5 models: Role of cloud processes. <i>International Journal of Climatology</i> , 2019, 39, 901-920.	3.5	5
49	Investigation of Cloud Microphysical Features During the Passage of a Tropical Mesoscale Convective System: Numerical Simulations and X-Band Radar Observations. <i>Pure and Applied Geophysics</i> , 2021, 178, 185-204.	1.9	5
50	Effects of a multilayer snow scheme on the global teleconnections of the Indian summer monsoon. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 1102-1117.	2.7	3
51	Role of Electrical Effects in Intensifying Rainfall Rates in the Tropics. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	2