

Hemantkumar S Chaudhari

List of Publications by Citations

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41
papers

831
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h-index

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g-index

42
ext. papers

1,026
ext. citations

4.1
avg, IF

4.1
L-index

#	Paper	IF	Citations
41	Why is Indian Ocean warming consistently?. <i>Climatic Change</i> , 2012 , 110, 709-719	4.5	97
40	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	82
39	Unusual Central Indian Drought of Summer Monsoon 2008: Role of Southern Tropical Indian Ocean Warming. <i>Journal of Climate</i> , 2010 , 23, 5163-5174	4.4	59
38	Influence of Eurasian snow on Indian summer monsoon in NCEP CFSv2 freerun. <i>Climate Dynamics</i> , 2013 , 41, 1801-1815	4.2	51
37	Evaporation-precipitation variability over Indian Ocean and its assessment in NCEP Climate Forecast System (CFSv2). <i>Climate Dynamics</i> , 2012 , 39, 2585-2608	4.2	51
36	Model biases in long coupled runs of NCEP CFS in the context of Indian summer monsoon. <i>International Journal of Climatology</i> , 2013 , 33, 1057-1069	3.5	46
35	Seasonal variation of lightning activity over the Indian subcontinent. <i>Meteorology and Atmospheric Physics</i> , 2009 , 104, 125-134	2	42
34	Potential predictability of Indian summer monsoon rainfall in NCEP CFSv2. <i>Journal of Advances in Modeling Earth Systems</i> , 2016 , 8, 96-120	7.1	37
33	Seasonal prediction of Indian summer monsoon rainfall in NCEP CFSv2: forecast and predictability error. <i>Climate Dynamics</i> , 2016 , 46, 2305-2326	4.2	33
32	Modulation of SST, SSS over northern Bay of Bengal on ISO time scale. <i>Journal of Geophysical Research</i> , 2011 , 116,		30
31	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	4.4	30
30	Seasonal prediction of Indian summer monsoon in NCEP coupled and uncoupled model. <i>Theoretical and Applied Climatology</i> , 2013 , 114, 459-477	3	28
29	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	4.2	20
28	Dynamical features of incessant heavy rainfall event of June 2013 over Uttarakhand, India. <i>Natural Hazards</i> , 2016 , 80, 1579-1601	3	19
27	Status of NCEP CFS vis-a-vis IPCC AR4 models for the simulation of Indian summer monsoon. <i>Theoretical and Applied Climatology</i> , 2013 , 111, 65-78	3	19
26	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	7.1	16
25	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	4.4	15

24	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	7.1	15
23	Indian summer monsoon precipitating clouds: role of microphysical process rates. <i>Climate Dynamics</i> , 2016 , 46, 2551-2571	4.2	13
22	Indian summer monsoon simulations with CFSv2: a microphysics perspective. <i>Theoretical and Applied Climatology</i> , 2016 , 125, 253-269	3	12
21	Predictability of global monsoon rainfall in NCEP CFSv2. <i>Climate Dynamics</i> , 2016 , 47, 1693-1715	4.2	11
20	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	3	11
19	Hindcast skill improvement in Climate Forecast System (CFSv2) using modified cloud scheme. <i>International Journal of Climatology</i> , 2018 , 38, 2994-3012	3.5	11
18	Assessment of simulation of radiation in NCEP Climate Forecasting System (CFS V2). <i>Atmospheric Research</i> , 2017 , 193, 94-106	5.4	9
17	Evaluation of Different Heat Flux Products Over the Tropical Indian Ocean. <i>Earth and Space Science</i> , 2020 , 7, e2019EA000988	3.1	9
16	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	8
15	CloudsSST 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	8
14	Influence of upper ocean on Indian summer monsoon rainfall: studies by observation and NCEP climate forecast system (CFSv2). <i>Theoretical and Applied Climatology</i> , 2016 , 125, 413-426	3	7
13	SST and OLR relationship during Indian summer monsoon: a coupled climate modelling perspective. <i>Meteorology and Atmospheric Physics</i> , 2018 , 130, 211-225	2	6
12	Interplay Between Subseasonal Rainfall and Global Predictors in Modulating Interannual to Multidecadal Predictability of the ISMR. <i>Geophysical Research Letters</i> , 2021 , 48,	4.9	5
11	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-e1075	3.5	4
10	The Dominant Modes of Recycled Monsoon Rainfall over India. <i>Journal of Hydrometeorology</i> , 2017 , 18, 2647-2657	3.7	4
9	Evaluating different lightning parameterization schemes to simulate lightning flash counts over Maharashtra, India. <i>Atmospheric Research</i> , 2021 , 255, 105532	5.4	4
8	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	6.4	3
7	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	3

6	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	4.2	3
5	Role of convective and microphysical processes on the simulation of monsoon intraseasonal oscillation. <i>Climate Dynamics</i> , 2020 , 55, 2377-2403	4.2	3
4	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	4.4	3
3	Seasonal Predictability of Lightning Over the Global Hotspot Regions. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	1
2	Role of cloud microphysics in improved simulation of the Asian monsoon quasi-biweekly mode (QBM). <i>Climate Dynamics</i> , 2020 , 54, 599-614	4.2	1
1	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	7.1	1