

Hemantkumar S Chaudhari

List of Publications by Year in descending order

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42
papers

1,169
citations

361413
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h-index

395702
33
g-index

42
all docs

42
docs citations

42
times ranked

1039
citing authors

#	ARTICLE	IF	CITATIONS
1	Why is Indian Ocean warming consistently?. Climatic Change, 2012, 110, 709-719.	3.6	131
2	Improved simulation of Indian summer monsoon in latest <scp>NCEP</scp> climate forecast system free run. International Journal of Climatology, 2014, 34, 1628-1641.	3.5	100
3	Unusual Central Indian Drought of Summer Monsoon 2008: Role of Southern Tropical Indian Ocean Warming. Journal of Climate, 2010, 23, 5163-5174.	3.2	72
4	Evaporation-precipitation variability over Indian Ocean and its assessment in NCEP Climate Forecast System (CFSv2). Climate Dynamics, 2012, 39, 2585-2608.	3.8	62
5	Influence of Eurasian snow on Indian summer monsoon in NCEP CFSv2 freerun. Climate Dynamics, 2013, 41, 1801-1815.	3.8	62
6	Unraveling the Mystery of Indian Summer Monsoon Prediction: Improved Estimate of Predictability Limit. Journal of Geophysical Research D: Atmospheres, 2019, 124, 1962-1974.	3.3	59
7	Seasonal variation of lightning activity over the Indian subcontinent. Meteorology and Atmospheric Physics, 2009, 104, 125-134.	2.0	53
8	Model biases in long coupled runs of NCEP CFS in the context of Indian summer monsoon. International Journal of Climatology, 2013, 33, 1057-1069.	3.5	53
9	Potential predictability of <scp>I</scp>ndian summer monsoon rainfall in NCEP CFSv2. Journal of Advances in Modeling Earth Systems, 2016, 8, 96-120.	3.8	48
10	Seasonal prediction of Indian summer monsoon rainfall in NCEP CFSv2: forecast and predictability error. Climate Dynamics, 2016, 46, 2305-2326.	3.8	42
11	Modulation of SST, SSS over northern Bay of Bengal on ISO time scale. Journal of Geophysical Research, 2011, 116, .	3.3	35
12	Effect of cloud microphysics on Indian summer monsoon precipitating clouds: A coupled climate modeling study. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3786-3805.	3.3	34
13	Seasonal prediction of Indian summer monsoon in NCEP coupled and uncoupled model. Theoretical and Applied Climatology, 2013, 114, 459-477.	2.8	32
14	Progress Towards Achieving the Challenge of Indian Summer Monsoon Climate Simulation in a Coupled Ocean&Atmosphere Model. Journal of Advances in Modeling Earth Systems, 2017, 9, 2268-2290.	3.8	29
15	Dynamical features of incessant heavy rainfall event of June 2013 over Uttarakhand, India. Natural Hazards, 2016, 80, 1579-1601.	3.4	27
16	Effects of multilayer snow scheme on the simulation of snow: <scp>O</scp>ffline <scp>N</scp>oah and coupled with <scp>NCEP</scp><scp>CFS</scp>v2. Journal of Advances in Modeling Earth Systems, 2017, 9, 271-290.	3.8	27
17	Does the modification in â€œcritical relative humidityâ€•of NCEP CFSv2 dictate Indian mean summer monsoon forecast? Evaluation through thermodynamical and dynamical aspects. Climate Dynamics, 2016, 46, 1197-1222.	3.8	25
18	Evaluation of Different Heat Flux Products Over the Tropical Indian Ocean. Earth and Space Science, 2020, 7, e2019EA000988.	2.6	23

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19	Indian summer monsoon precipitating clouds: role of microphysical process rates. <i>Climate Dynamics</i> , 2016, 46, 2551-2571.	3.8	22
20	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.	2.8	21
21	Evaluating different lightning parameterization schemes to simulate lightning flash counts over Maharashtra, India. <i>Atmospheric Research</i> , 2021, 255, 105532.	4.1	20
22	Predictability of global monsoon rainfall in NCEP CFSv2. <i>Climate Dynamics</i> , 2016, 47, 1693-1715.	3.8	16
23	Indian summer monsoon simulations with CFSv2: a microphysics perspective. <i>Theoretical and Applied Climatology</i> , 2016, 125, 253-269.	2.8	14
24	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
25	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
26	Cloudsâ€™ <scp>SST</scp> relationship and interannual variability modes of Indian summer monsoon in the context of clouds and <scp>SSTs</scp>: observational and modelling aspects. <i>International Journal of Climatology</i> , 2016, 36, 4723-4740.	3.5	13
27	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
28	Improved depiction of Indian summer monsoon in latest high resolution <scp>NCEP</scp> climate forecast system reanalysis. <i>International Journal of Climatology</i> , 2015, 35, 3102-3119.	3.5	10
29	Assessment of simulation of radiation in NCEP Climate Forecasting System (CFS V2). <i>Atmospheric Research</i> , 2017, 193, 94-106.	4.1	10
30	Role of convective and microphysical processes on the simulation of monsoon intraseasonal oscillation. <i>Climate Dynamics</i> , 2020, 55, 2377-2403.	3.8	10
31	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
32	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
33	The Dominant Modes of Recycled Monsoon Rainfall over India. <i>Journal of Hydrometeorology</i> , 2017, 18, 2647-2657.	1.9	8
34	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.	2.8	7
35	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
36	Seasonal Predictability of Lightning Over the Global Hotspot Regions. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	7

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	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
40	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
41	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
42	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