Ravuri Phani Murali Krishna

List of Publications by Year
in descending order

67 papers	913 citations	430874 18 h-index	526287 27 g-index
70 all docs	70 docs citations	70 times ranked	592 citing authors

#	Article	IF	Citations
1	Multi-physics schema for sub-seasonal prediction of Indian summer monsoon. Climate Dynamics, 2022, 58, 669-690.	3.8	3
2	The intraseasonal fluctuation of Indian summer monsoon rainfall and its relation with monsoon intraseasonal oscillation (MISO) and Madden Julian oscillation (MJO). Theoretical and Applied Climatology, 2022, 148, 819-831.	2.8	11
3	Does Increasing Horizontal Resolution Improve Seasonal Prediction of Indian Summer Monsoon?: A Climate Forecast System Model Perspective. Geophysical Research Letters, 2022, 49, .	4.0	3
4	The impact of modified rate of precipitation conversion parameter in the convective parameterization scheme of operational weather forecast model (GFS T1534) over Indian summer monsoon region. Atmospheric Research, 2021, 248, 105185.	4.1	3
5	An assessment of radiative flux biases in the climate forecast system model CFSv2. Climate Dynamics, 2021, 56, 1541-1569.	3.8	2
6	Climatological patterns of subseasonal eddy flux transfer based on the coâ€spectral analysis over the Indian region and the derivation of an index of eddy transfer for operational tracking. International Journal of Climatology, 2021, 41, E1906.	3.5	1
7	Role of autoconversion process in assessing the low-level clouds over the southern Indian Ocean in Climate Forecast System (CFS) version 2. Theoretical and Applied Climatology, 2021, 145, 273-284.	2.8	1
8	GFS model fidelity in capturing the transition of lowâ€pressure area to monsoon depression. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 2625-2637.	2.7	2
9	Multi-Model Multi-Physics Ensemble: A Futuristic Way to Extended Range Prediction System. Frontiers in Climate, 2021, 3, .	2.8	7
10	Large-scale features associated with excess monsoon rainfall over india during 2019 and the real-time extended range forecast. Meteorology and Atmospheric Physics, 2021, 133, 1275-1297.	2.0	5
11	Evaluation of Mean State in NCEP Climate Forecast System (Version 2) Simulation Using a Stochastic Multicloud Model Calibrated With DYNAMO RADAR Data. Earth and Space Science, 2021, 8, e2020EA001455.	2.6	0
12	Atmospheric dynamics and internal processes in CFSv2 model during organization and intensification of BSISO. Journal of Earth System Science, 2021, 130, 1.	1.3	1
13	Sensitivity of climate models in relation to the â€œpool of inhibited cloudinessâ€•over South of the Bay of Bengal. International Journal of Climatology, 2020, 40, 3714-3730.	3.5	3
14	Evaluation of convective parameterization schemes in simulation of tropical cyclones by Climate Forecast System model: Version 2. Journal of Earth System Science, 2020, 129, 1.	1.3	3
15	Development of a probabilistic early health warning system based on meteorological parameters. Scientific Reports, 2020, 10, 14741.	3.3	8
16	An Improved Cyclogenesis Potential and Storm Evolution Parameter for North Indian Ocean. Earth and Space Science, 2020, 7, e2020EA001209.	2.6	5
17	How changing cloud water to rain conversion profile impacts on radiation and its linkage to a better Indian summer monsoon rainfall simulation. Theoretical and Applied Climatology, 2020, 141, 947-958.	2.8	0
18	MJO Prediction Skill Using IITM Extended Range Prediction System and Comparison with ECMWF S2S. Pure and Applied Geophysics, 2020, 177, 5067-5079.	1.9	2

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19	Assessment of climate models in relation to the lowâ€level clouds over the southern Indian Ocean. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 3306-3325.	2.7	5
20	Impact of horizontal resolution on sea surface temperature bias and airâ€"sea interactions over the tropical Indian Ocean in CFSv2 coupled model. International Journal of Climatology, 2020, 40, 4903-4921.	3.5	5
21	Dynamical downscaling of a <scp>multimodel</scp> ensemble prediction system: Application to tropical cyclones. Atmospheric Science Letters, 2020, 21, e971.	1.9	11
22	Evaluation of SP-CAM and SP-CCSM in capturing the extremes of summer monsoon rainfall over Indian region. Journal of Earth System Science, 2020, 129, 1.	1.3	2
23	Impact of convective parameterization on the seasonal prediction skill of Indian summer monsoon. Climate Dynamics, 2019, 53, 6227-6243.	3.8	17
24	Simulations of Monsoon Intraseasonal Oscillation Using Climate Forecast System Version 2: Insight for Horizontal Resolution and Moist Processes Parameterization. Atmosphere, 2019, 10, 429.	2.3	4
25	Monsoon Mission: A Targeted Activity to Improve Monsoon Prediction across Scales. Bulletin of the American Meteorological Society, 2019, 100, 2509-2532.	3.3	64
26	Skill Evaluation of Extended-Range Forecasts of Rainfall and Temperature over the Meteorological Subdivisions of India. Weather and Forecasting, 2019, 34, 81-101.	1.4	10
27	Real time extended range prediction of heat waves over India. Scientific Reports, 2019, 9, 9008.	3.3	38
28	Performance of a very high-resolution global forecast system model (GFS T1534) at 12.5Âkm over the Indian region during the 2016â€"2017 monsoon seasons. Journal of Earth System Science, 2019, 128, 1.	1.3	33
29	The Impact of Modified Fractional Cloud Condensate to Precipitation Conversion Parameter in Revised Simplified Arakawaâ€Schubert Convection Parameterization Scheme on the Simulation of Indian Summer Monsoon and Its Forecast Application on an Extreme Rainfall Event Over Mumbai. Journal of Geophysical Research D: Atmospheres, 2019, 124, 5379-5399.	3.3	9
30	The Multi-cloud (SMCM) in the CFSv2: and Opportunities. Springer Atmospheric Sciences, 2019, , 157-181.	0.3	0
31	Challenges of Improving the Stratiform Processes in a Coupled Climate Model with Indian Monsoon Perspective. Springer Atmospheric Sciences, 2019, , 219-229.	0.3	1
32	Revised cloud and convective parameterization in CFSv2 improve the underlying processes for northward propagation of Intraseasonal oscillations as proposed by the observation-based study. Climate Dynamics, 2019, 53, 2793-2805.	3.8	9
33	Genesis and track prediction of pre-monsoon cyclonic storms over North Indian Ocean in a multi-model ensemble framework. Natural Hazards, 2019, 95, 823-843.	3.4	7
34	An Operational Tracking Method for the MJO Using Extended Empirical Orthogonal Functions. Pure and Applied Geophysics, 2019, 176, 2697-2717.	1.9	6
35	A study on the capability of the NCEP-CFS model in simulating the frequency and intensity of high-intensity rainfall events over Indian region in the high and low resolutions. Modeling Earth Systems and Environment, 2019, 5, 85-100.	3.4	6
36	A New Approach to Improve the Track Prediction of Tropical Cyclones Over North Indian Ocean. Geophysical Research Letters, 2018, 45, 7781-7789.	4.0	9

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37	Role of enhanced synoptic activity and its interaction with intra-seasonal oscillations on the lower extended range prediction skill during 2015 monsoon season. Climate Dynamics, 2018, 51, 3435-3446.	3.8	11
38	Towards a realistic simulation of boreal summer tropical rainfall climatology in state-of-the-art coupled models: role of the background snow-free land albedo. Climate Dynamics, 2018, 50, 3413-3439.	3.8	9
39	Mean and intraâ€seasonal variability simulated by NCEP Climate Forecast System model (version 2.0) during boreal winter: Impact of horizontal resolution. International Journal of Climatology, 2018, 38, 3028-3043.	3.5	3
40	Coupled model fidelity in capturing atmospheric internal processes during organization and intensification of boreal summer intraâ€seasonal oscillation. International Journal of Climatology, 2018, 38, 5339-5353.	3.5	3
41	Hindcast skill improvement in Climate Forecast System (CFSv2) using modified cloud scheme. International Journal of Climatology, 2018, 38, 2994-3012.	3.5	14
42	Improving synoptic and intraseasonal variability in CFSv2 via stochastic representation of organized convection. Geophysical Research Letters, 2017, 44, 1104-1113.	4.0	47
43	Improved Tropical Modes of Variability in the NCEP Climate Forecast System (Version 2) via a Stochastic Multicloud Model. Journals of the Atmospheric Sciences, 2017, 74, 3339-3366.	1.7	32
44	Revised cloud processes to improve the mean and intraseasonal variability of <scp>I</scp>ndian summer monsoon in climate forecast system: Part 1. Journal of Advances in Modeling Earth Systems, 2017, 9, 1002-1029.	3.8	32
45	Implementation and calibration of a stochastic multicloud convective parameterization in the NCEP <scp>C</scp>limate <scp>F</scp>orecast <scp>S</scp>ystem (CFSv2). Journal of Advances in Modeling Earth Systems, 2017, 9, 1721-1739.	3.8	26
46	Extremes in June rainfall during the Indian summer monsoons of 2013 and 2014: observational analysis and extendedâ€range prediction. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 1276-1289.	2.7	10
47	The impact of revised simplified Arakawaâ€Schubert scheme on the simulation of mean and diurnal variability associated with active and break phases of Indian summer monsoon using CFSv2. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9301-9323.	3.3	26
48	Improvement of Systematic Bias of mean state and the intraseasonal variability of CFSv2 through superparameterization and revised cloud-convection-radiation parameterization. , 2016, , .		0
49	Diagnosis of boreal summer intraseasonal oscillation in high resolution NCEP climate forecast system. Climate Dynamics, 2016, 46, 3287-3303.	3.8	25
50	Influence of extratropical seaâ€surface temperature on the Indian summer monsoon: an unexplored source of seasonal predictability. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2760-2775.	2.7	45
51	The impact of revised simplified Arakawaâ€"Schubert convection parameterization scheme in CFSv2 on the simulation of the Indian summer monsoon. Climate Dynamics, 2015, 45, 881-902.	3.8	26
52	Simulation of the Indian Summer Monsoon in the Superparameterized Climate Forecast System Version 2: Preliminary Results. Journal of Climate, 2015, 28, 8988-9012.	3.2	35
53	Real-Time Performance of a Multi-Model Ensemble-Based Extended Range Forecast System in Predicting the 2014 Monsoon Season Based on NCEP-CFSv2. Current Science, 2015, 109, 1802.	0.8	20
54	Real-Time Performance of a Multi-Model Ensemble-Based Extended Range Forecast System in Predicting the 2014 Monsoon Season Based on NCEP-CFSv2. Current Science, 2015, 109, 1802.	0.8	11

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55	Influence of convective parameterization on the systematic errors of Climate Forecast System (CFS) model over the Indian monsoon region from an extended range forecast perspective. Climate Dynamics, 2013, 41, 341-365.	3.8	19
56	Role of oceanâ€"atmosphere interaction on northward propagation of Indian summer monsoon intra-seasonal oscillations (MISO). Climate Dynamics, 2013, 41, 1651-1669.	3.8	106
57	Profiling and scalability of the high resolution NCEP model for weather and climate simulations. , 2012, , .		0
58	Existence of a metallic phase in a 1D Holsteinâ€"Hubbard model at half filling. Physica C: Superconductivity and Its Applications, 2007, 457, 55-59.	1.2	18
59	Bipolaronic phase in polar semiconductor quantum dots: An all-coupling approach. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 360, 655-658.	2.1	24
60	Polaronic effects in asymmetric quantum wire: An all-coupling variational approach. Solid State Communications, 2006, 138, 285-289.	1.9	27
61	Effect of electronâ€"phonon interaction on the electronic properties of an axially symmetric polar semiconductor quantum wire with transverse parabolic confinement. Physica B: Condensed Matter, 2005, 358, 191-200.	2.7	21
62	Polaronic effects in a polar semiconductor quantum strip with transverse parabolic confinement. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 30, 64-68.	2.7	8
63	OPTICAL ABSORPTION IN QUANTUM DOTS. International Journal of Modern Physics B, 2002, 16, 1489-1497.	2.0	11
64	A fully interacting many-electron-phonon system in one dimension: an exactly soluble model. Journal of Physics Condensed Matter, 2001, 13, L919-L924.	1.8	2
65	Role of initial error growth in the extended range prediction skill of Madden-Julian Oscillation (MJO). Theoretical and Applied Climatology, 0, , 1.	2.8	4
66	Eddy transport, Waveâ€"mean flow interaction, and Eddy forcing during the 2013 Uttarakhand Extreme Event in the Reanalysis and <scp>S2S</scp> Retrospective Forecast Data. International Journal of Climatology, 0, , .	3.5	2
67	Representation of moist convective processes in CMIP5 and CMIP6 models for the simulation of Indian Summer Monsoon intraseasonal variability. International Journal of Climatology, 0, , .	3.5	0