

Suryachandra A Rao

List of Publications by Year in descending order

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73
papers

6,179
citations

126858

33
h-index

88593

70
g-index

74
all docs

74
docs citations

74
times ranked

4192
citing authors

#	ARTICLE	IF	CITATIONS
1	El Niño Modoki and its possible teleconnection. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	2,115
2	Impacts of recent El Niño Modoki on dry/wet conditions in the Pacific rim during boreal summer. <i>Climate Dynamics</i> , 2007, 29, 113-129.	1.7	478
3	Interannual subsurface variability in the tropical Indian Ocean with a special emphasis on the Indian Ocean Dipole. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002, 49, 1549-1572.	0.6	296
4	A CGCM Study on the Interaction between IOD and ENSO. <i>Journal of Climate</i> , 2006, 19, 1688-1705.	1.2	288
5	Coupled Ocean-Atmosphere Variability in the Tropical Indian Ocean. <i>Geophysical Monograph Series</i> , 0, , 189-211.	0.1	218
6	Subsurface influence on SST in the tropical Indian Ocean: structure and interannual variability. <i>Dynamics of Atmospheres and Oceans</i> , 2005, 39, 103-135.	0.7	164
7	Simulation of boreal summer intraseasonal oscillations in the latest CMIP5 coupled GCMs. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 4401-4420.	1.2	140
8	Why is Indian Ocean warming consistently?. <i>Climatic Change</i> , 2012, 110, 709-719.	1.7	131
9	Abrupt termination of Indian Ocean dipole events in response to intraseasonal disturbances. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	108
10	Comments on "Dipoles, Temperature Gradients, and Tropical Climate Anomalies". <i>Bulletin of the American Meteorological Society</i> , 2003, 84, 1418-1422.	1.7	106
11	Modulation of Sri Lankan Maharainfall by the Indian Ocean Dipole. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	103
12	Indian summer monsoon rainfall simulation and prediction skill in the CFSv2 coupled model: Impact of atmospheric horizontal resolution. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 2205-2221.	1.2	103
13	Improved simulation of Indian summer monsoon in latest NCEP climate forecast system free run. <i>International Journal of Climatology</i> , 2014, 34, 1628-1641.	1.5	100
14	Indian Ocean Dipole Modulates the Number of Extreme Rainfall Events over India in a Warming Environment. <i>Journal of the Meteorological Society of Japan</i> , 2008, 86, 245-252.	0.7	99
15	Why ensemble mean projection of south Asian monsoon rainfall by CMIP5 models is not reliable?. <i>Climate Dynamics</i> , 2015, 45, 161-174.	1.7	91
16	Simulation of monsoon intraseasonal variability in NCEP CFSv2 and its role on systematic bias. <i>Climate Dynamics</i> , 2014, 43, 2725-2745.	1.7	84
17	ENSO, IOD and Indian Summer Monsoon in NCEP climate forecast system. <i>Climate Dynamics</i> , 2012, 39, 2143-2165.	1.7	82
18	Why were cool SST anomalies absent in the Bay of Bengal during the 1997 Indian Ocean Dipole Event?. <i>Geophysical Research Letters</i> , 2002, 29, 50-1.	1.5	79

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19	Comments on "A Cautionary Note on the Interpretation of EOFs" Journal of Climate, 2003, 16, 1087-1093.	1.2	78
20	Unusual Central Indian Drought of Summer Monsoon 2008: Role of Southern Tropical Indian Ocean Warming. Journal of Climate, 2010, 23, 5163-5174.	1.2	72
21	On the relationship between Indian summer monsoon withdrawal and Indo-Pacific SST anomalies before and after 1976/1977 climate shift. Climate Dynamics, 2012, 39, 841-859.	1.7	72
22	Generation and termination of Indian Ocean dipole events in 2003, 2006 and 2007. Climate Dynamics, 2009, 33, 751-767.	1.7	65
23	Monsoon Mission: A Targeted Activity to Improve Monsoon Prediction across Scales. Bulletin of the American Meteorological Society, 2019, 100, 2509-2532.	1.7	64
24	Influence of Indian Ocean Dipole on Poleward Propagation of Boreal Summer Intraseasonal Oscillations. Journal of Climate, 2008, 21, 5437-5454.	1.2	63
25	Chlorophyll <i>a</i> bloom along the southern coasts of Java and Sumatra during 2006. International Journal of Remote Sensing, 2009, 30, 663-671.	1.3	59
26	Monsoons to Mixing in the Bay of Bengal: Multiscale Air-Sea Interactions and Monsoon Predictability. Oceanography, 2016, 29, 18-27.	0.5	57
27	Model biases in long coupled runs of NCEP CFS in the context of Indian summer monsoon. International Journal of Climatology, 2013, 33, 1057-1069.	1.5	53
28	Large-scale teleconnection patterns of Indian summer monsoon as revealed by CFSv2 retrospective seasonal forecast runs. International Journal of Climatology, 2016, 36, 3297-3313.	1.5	46
29	Influence of extratropical sea surface temperature on the Indian summer monsoon: an unexplored source of seasonal predictability. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2760-2775.	1.0	45
30	Indian summer monsoon prediction and simulation in CFSv2 coupled model. Atmospheric Science Letters, 2016, 17, 57-64.	0.8	43
31	Impact of revised cloud microphysical scheme in CFSv2 on the simulation of the Indian summer monsoon. International Journal of Climatology, 2015, 35, 4738-4755.	1.5	40
32	Modulation of monsoon intraseasonal oscillations in the recent warming period. Journal of Geophysical Research D: Atmospheres, 2014, 119, 5185-5203.	1.2	40
33	Modulation of SST, SSS over northern Bay of Bengal on ISO time scale. Journal of Geophysical Research, 2011, 116, .	3.3	35
34	Seasonal prediction skill of Indian summer monsoon rainfall in NMME models and monsoon mission CFSv2. International Journal of Climatology, 2018, 38, e847.	1.5	35
35	Impact of a Narrow Coastal Bay of Bengal Sea Surface Temperature Front on an Indian Summer Monsoon Simulation. Scientific Reports, 2018, 8, 17694.	1.6	34
36	Diurnal Cycle Induced Amplification of Sea Surface Temperature Intraseasonal Oscillations Over the Bay of Bengal in Summer Monsoon Season. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 206-210.	1.4	33

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37	Prediction of seasonal summer monsoon rainfall over homogenous regions of India using dynamical prediction system. <i>Journal of Hydrology</i> , 2017, 546, 103-112.	2.3	32
38	Termination of Indian Ocean Dipole Events in a Coupled General Circulation Model. <i>Journal of Climate</i> , 2007, 20, 3018-3035.	1.2	29
39	Prediction of Indian Summer-Monsoon Onset Variability: A Season in Advance. <i>Scientific Reports</i> , 2017, 7, 14229.	1.6	29
40	Role of Indian Ocean SST variability on the recent global warming hiatus. <i>Global and Planetary Change</i> , 2016, 143, 21-30.	1.6	28
41	Diagnosis of boreal summer intraseasonal oscillation in high resolution NCEP climate forecast system. <i>Climate Dynamics</i> , 2016, 46, 3287-3303.	1.7	25
42	How distinct are the two flavors of El Niño in retrospective forecasts of Climate Forecast System version 2 (CFSv2)? <i>Climate Dynamics</i> , 2017, 48, 3829-3854.	1.7	25
43	Indian summer monsoon drought 2009: role of aerosol and cloud microphysics. <i>Atmospheric Science Letters</i> , 2013, 14, 181-186.	0.8	21
44	Evaluating different lightning parameterization schemes to simulate lightning flash counts over Maharashtra, India. <i>Atmospheric Research</i> , 2021, 255, 105532.	1.8	20
45	Influence of Indian Ocean Dipole on boreal summer intraseasonal oscillations in a coupled general circulation model. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	19
46	Summer monsoon circulation and precipitation over the tropical Indian Ocean during ENSO in the NCEP climate forecast system. <i>Climate Dynamics</i> , 2014, 42, 1925-1947.	1.7	19
47	Structure, characteristics, and simulation of monsoon low-pressure systems in <sc>CFS</sc>v2 coupled model. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 6394-6415.	1.0	19
48	Potential predictability and actual skill of Boreal Summer Tropical SST and Indian summer monsoon rainfall in CFSv2-T382: Role of initial SST and teleconnections. <i>Climate Dynamics</i> , 2018, 51, 493-510.	1.7	18
49	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.	1.7	17
50	Impact of convective parameterization on the seasonal prediction skill of Indian summer monsoon. <i>Climate Dynamics</i> , 2019, 53, 6227-6243.	1.7	17
51	Loss of predictive skill of indian summer monsoon rainfall in NCEP CFSv2 due to misrepresentation of Atlantic zonal mode. <i>Climate Dynamics</i> , 2019, 52, 4599-4619.	1.7	16
52	Hindcast skill improvement in Climate Forecast System (CFSv2) using modified cloud scheme. <i>International Journal of Climatology</i> , 2018, 38, 2994-3012.	1.5	14
53	Seasonal variability of upper-layer geostrophic transport in the tropical Indian Ocean during 1992-1996 along TOGA-I XBT tracklines. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2000, 47, 1569-1582.	0.6	13
54	Impact of the tropical Pacific SST biases on the simulation and prediction of Indian summer monsoon rainfall in CFSv2, ECMWF-System4, and NMME models. <i>Climate Dynamics</i> , 2021, 56, 1699-1715.	1.7	12

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55	Assessment of simulation of radiation in NCEP Climate Forecasting System (CFS V2). Atmospheric Research, 2017, 193, 94-106.	1.8	10
56	Shift in <sc>MONSOON–</sc>SST</sc> teleconnections in the tropical Indian Ocean and <sc>ENSEMBLES</sc> climate models' fidelity in its simulation. International Journal of Climatology, 2017, 37, 2280-2294.	1.5	10
57	Reduced Near-Surface Thermal Inversions in 2005–06 in the Southeastern Arabian Sea (Lakshadweep) Tj ETQq1 1 0.784314 rgBT /C 0.7	0.7	9
58	Regime shift of Indian summer monsoon rainfall to a persistent arid state: external forcing versus internal variability. Meteorology and Atmospheric Physics, 2019, 131, 211-224.	0.9	7
59	Drifting and Meandering of Olive Ridley Sea Turtles in the Bay of Bengal: Role of Oceanic Rossby Waves. Marine Geodesy, 2009, 32, 372-378.	0.9	6
60	Analysis of Monsoon Mission Coupled Forecasting System (MMCFS) model simulations of sub-division scale temperatures over India for the hot weather season (April–June). Journal of Earth System Science, 2019, 128, 1.	0.6	6
61	Evaluation of state-of-the-art GCMs in simulating Indian summer monsoon rainfall. Meteorology and Atmospheric Physics, 2021, 133, 1429-1445.	0.9	6
62	Impact of horizontal resolution on sea surface temperature bias and air–sea interactions over the tropical Indian Ocean in CFSv2 coupled model. International Journal of Climatology, 2020, 40, 4903-4921.	1.5	5
63	Comparison of <sc>MMCFS</sc> and <sc>SINTEX–F2</sc> for seasonal prediction of Indian summer monsoon rainfall. International Journal of Climatology, 2021, 41, 6084-6108.	1.5	4
64	Gain of one-month lead time in seasonal prediction of Indian summer monsoon prediction: comparison of initialization strategies. Theoretical and Applied Climatology, 2021, 143, 1083-1096.	1.3	3
65	Value addition to forecasting: towards Kharif rice crop predictability through local climate variations associated with Indo-Pacific climate drivers. Theoretical and Applied Climatology, 2021, 144, 917-929.	1.3	3
66	Reducing Systematic Biases Over the Indian Region in CFS V2 by Dynamical Downscaling. Earth and Space Science, 2021, 8, e2020EA001507.	1.1	3
67	Impact of high- and low-vorticity turbulence on cloud–environment mixing and cloud microphysics processes. Atmospheric Chemistry and Physics, 2021, 21, 12317-12329.	1.9	3
68	Why coupled general circulation models overestimate the ENSO and Indian Summer Monsoon Rainfall (ISMR) relationship?. Climate Dynamics, 2022, 59, 2995-3011.	1.7	3
69	Assessment of prediction skill in equatorial Pacific Ocean in high resolution model of CFS. Climate Dynamics, 2018, 51, 3389-3403.	1.7	2
70	Factors responsible for consecutive deficit Indian monsoons during 2014 and 2015. Theoretical and Applied Climatology, 2021, 143, 1473-1486.	1.3	2
71	Improvements in Diurnal Cycle and Its Impact on Seasonal Mean by Incorporating COARE Flux Algorithm in CFS. Frontiers in Climate, 2022, 3, .	1.3	2
72	Impact of Riverine Fresh Water on Indian Summer Monsoon: Coupling a Runoff Routing Model to a Global Seasonal Forecast Model. Frontiers in Climate, 0, 4, .	1.3	2

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73	Are ocean-moored buoys redundant for prediction of Indian monsoon?. Meteorology and Atmospheric Physics, 2021, 133, 1075-1088.	0.9	0