

# Suryachandra A Rao

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71  
papers

4,968  
citations

30  
h-index

70  
g-index

74  
ext. papers

5,611  
ext. citations

3.8  
avg. IF

5.43  
L-index

#	Paper	IF	Citations
71	Value addition to forecasting: towards Kharif rice crop predictability through local climate variations associated with Indo-Pacific climate drivers. <i>Theoretical and Applied Climatology</i> , <b>2021</b> , 144, 917-929	3	0
70	Are ocean-moored buoys redundant for prediction of Indian monsoon?. <i>Meteorology and Atmospheric Physics</i> , <b>2021</b> , 133, 1075-1088	2	
69	Comparison of MMCFS and SINTEX-F2 for seasonal prediction of Indian summer monsoon rainfall. <i>International Journal of Climatology</i> , <b>2021</b> , 41, 6084	3.5	0
68	Reducing Systematic Biases Over the Indian Region in CFS V2 by Dynamical Downscaling. <i>Earth and Space Science</i> , <b>2021</b> , 8, e2020EA001507	3.1	1
67	Evaluating different lightning parameterization schemes to simulate lightning flash counts over Maharashtra, India. <i>Atmospheric Research</i> , <b>2021</b> , 255, 105532	5.4	4
66	Gain of one-month lead time in seasonal prediction of Indian summer monsoon prediction: comparison of initialization strategies. <i>Theoretical and Applied Climatology</i> , <b>2021</b> , 143, 1083-1096	3	0
65	Factors responsible for consecutive deficit Indian monsoons during 2014 and 2015. <i>Theoretical and Applied Climatology</i> , <b>2021</b> , 143, 1473-1486	3	1
64	Evaluation of state-of-the-art GCMs in simulating Indian summer monsoon rainfall. <i>Meteorology and Atmospheric Physics</i> , <b>2021</b> , 133, 1429-1445	2	0
63	Impact of high- and low-vorticity turbulence on cloud environment mixing and cloud microphysics processes. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 12317-12329	6.8	0
62	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> , <b>2021</b> , 56, 1699-1715	4.2	5
61	Impact of horizontal resolution on sea surface temperature bias and air-sea interactions over the tropical Indian Ocean in CFSv2 coupled model. <i>International Journal of Climatology</i> , <b>2020</b> , 40, 4903-4921	3.5	1
60	Monsoon Mission: A Targeted Activity to Improve Monsoon Prediction across Scales. <i>Bulletin of the American Meteorological Society</i> , <b>2019</b> , 100, 2509-2532	6.1	34
59	Loss of predictive skill of Indian summer monsoon rainfall in NCEP CFSv2 due to misrepresentation of Atlantic zonal mode. <i>Climate Dynamics</i> , <b>2019</b> , 52, 4599-4619	4.2	10
58	Impact of convective parameterization on the seasonal prediction skill of Indian summer monsoon. <i>Climate Dynamics</i> , <b>2019</b> , 53, 6227-6243	4.2	11
57	Analysis of Monsoon Mission Coupled Forecasting System (MMCFS) model simulations of sub-division scale temperatures over India for the hot weather season (April-June). <i>Journal of Earth System Science</i> , <b>2019</b> , 128, 1	1.8	1
56	Regime shift of Indian summer monsoon rainfall to a persistent arid state: external forcing versus internal variability. <i>Meteorology and Atmospheric Physics</i> , <b>2019</b> , 131, 211-224	2	5
55	Seasonal prediction skill of Indian summer monsoon rainfall in NMME models and monsoon mission CFSv2. <i>International Journal of Climatology</i> , <b>2018</b> , 38, e847-e861	3.5	18

54	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> , <b>2018</b> , 51, 493-510	4.2	9
53	Assessment of prediction skill in equatorial Pacific Ocean in high resolution model of CFS. <i>Climate Dynamics</i> , <b>2018</b> , 51, 3389-3403	4.2	1
52	Hindcast skill improvement in Climate Forecast System (CFSv2) using modified cloud scheme. <i>International Journal of Climatology</i> , <b>2018</b> , 38, 2994-3012	3.5	11
51	Impact of a Narrow Coastal Bay of Bengal Sea Surface Temperature Front on an Indian Summer Monsoon Simulation. <i>Scientific Reports</i> , <b>2018</b> , 8, 17694	4.9	23
50	Seminal role of stratiform clouds in large-scale aggregation of tropical rain in boreal summer monsoon intraseasonal oscillations. <i>Climate Dynamics</i> , <b>2017</b> , 48, 999-1015	4.2	12
49	Prediction of seasonal summer monsoon rainfall over homogenous regions of India using dynamical prediction system. <i>Journal of Hydrology</i> , <b>2017</b> , 546, 103-112	6	22
48	Assessment of simulation of radiation in NCEP Climate Forecasting System (CFS V2). <i>Atmospheric Research</i> , <b>2017</b> , 193, 94-106	5.4	9
47	Shift in MONSOONBST teleconnections in the tropical Indian Ocean and ENSEMBLES climate models' fidelity in its simulation. <i>International Journal of Climatology</i> , <b>2017</b> , 37, 2280-2294	3.5	9
46	Prediction of Indian Summer-Monsoon Onset Variability: A Season in Advance. <i>Scientific Reports</i> , <b>2017</b> , 7, 14229	4.9	23
45	Structure, characteristics, and simulation of monsoon low-pressure systems in CFSv2 coupled model. <i>Journal of Geophysical Research: Oceans</i> , <b>2017</b> , 122, 6394-6415	3.3	15
44	How distinct are the two flavors of El Niño in retrospective forecasts of Climate Forecast System version 2 (CFSv2)? <i>Climate Dynamics</i> , <b>2017</b> , 48, 3829-3854	4.2	17
43	Diagnosis of boreal summer intraseasonal oscillation in high resolution NCEP climate forecast system. <i>Climate Dynamics</i> , <b>2016</b> , 46, 3287-3303	4.2	20
42	Large-scale teleconnection patterns of Indian summer monsoon as revealed by CFSv2 retrospective seasonal forecast runs. <i>International Journal of Climatology</i> , <b>2016</b> , 36, 3297-3313	3.5	34
41	Indian summer monsoon prediction and simulation in CFSv2 coupled model. <i>Atmospheric Science Letters</i> , <b>2016</b> , 17, 57-64	2.4	30
40	Monsoons to Mixing in the Bay of Bengal: Multiscale Air-Sea Interactions and Monsoon Predictability. <i>Oceanography</i> , <b>2016</b> , 29, 18-27	2.3	44
39	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> , <b>2016</b> , 121, 2205-2221	4.4	73
38	Role of Indian Ocean SST variability on the recent global warming hiatus. <i>Global and Planetary Change</i> , <b>2016</b> , 143, 21-30	4.2	24
37	Why ensemble mean projection of south Asian monsoon rainfall by CMIP5 models is not reliable?. <i>Climate Dynamics</i> , <b>2015</b> , 45, 161-174	4.2	72

36	Influence of extratropical sea-surface temperature on the Indian summer monsoon: an unexplored source of seasonal predictability. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2015</b> , 141, 2760-2775	6.4	34
35	Impact of revised cloud microphysical scheme in CFSv2 on the simulation of the Indian summer monsoon. <i>International Journal of Climatology</i> , <b>2015</b> , 35, 4738-4755	3.5	31
34	Simulation of monsoon intraseasonal variability in NCEP CFSv2 and its role on systematic bias. <i>Climate Dynamics</i> , <b>2014</b> , 43, 2725-2745	4.2	65
33	Improved simulation of Indian summer monsoon in latest NCEP climate forecast system free run. <i>International Journal of Climatology</i> , <b>2014</b> , 34, 1628-1641	3.5	82
32	Summer monsoon circulation and precipitation over the tropical Indian Ocean during ENSO in the NCEP climate forecast system. <i>Climate Dynamics</i> , <b>2014</b> , 42, 1925-1947	4.2	17
31	Modulation of monsoon intraseasonal oscillations in the recent warming period. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 5185-5203	4.4	28
30	Model biases in long coupled runs of NCEP CFS in the context of Indian summer monsoon. <i>International Journal of Climatology</i> , <b>2013</b> , 33, 1057-1069	3.5	46
29	Coupled Ocean-Atmosphere Variability in the Tropical Indian Ocean. <i>Geophysical Monograph Series</i> , <b>2013</b> , 189-211	1.1	181
28	Indian summer monsoon drought 2009: role of aerosol and cloud microphysics. <i>Atmospheric Science Letters</i> , <b>2013</b> , 14, 181-186	2.4	17
27	Simulation of boreal summer intraseasonal oscillations in the latest CMIP5 coupled GCMs. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 4401-4420	4.4	108
26	Why is Indian Ocean warming consistently?. <i>Climatic Change</i> , <b>2012</b> , 110, 709-719	4.5	97
25	On the relationship between Indian summer monsoon withdrawal and Indo-Pacific SST anomalies before and after 1976/1977 climate shift. <i>Climate Dynamics</i> , <b>2012</b> , 39, 841-859	4.2	58
24	ENSO, IOD and Indian Summer Monsoon in NCEP climate forecast system. <i>Climate Dynamics</i> , <b>2012</b> , 39, 2143-2165	4.2	61
23	Modulation of SST, SSS over northern Bay of Bengal on ISO time scale. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		30
22	Diurnal Cycle Induced Amplification of Sea Surface Temperature Intraseasonal Oscillations Over the Bay of Bengal in Summer Monsoon Season. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2011</b> , 8, 206-210	4.1	27
21	Unusual Central Indian Drought of Summer Monsoon 2008: Role of Southern Tropical Indian Ocean Warming. <i>Journal of Climate</i> , <b>2010</b> , 23, 5163-5174	4.4	59
20	Drifting and Meandering of Olive Ridley Sea Turtles in the Bay of Bengal: Role of Oceanic Rossby Waves. <i>Marine Geodesy</i> , <b>2009</b> , 32, 372-378	1.2	6
19	Chlorophyll-a bloom along the southern coasts of Java and Sumatra during 2006. <i>International Journal of Remote Sensing</i> , <b>2009</b> , 30, 663-671	3.1	39

18	Generation and termination of Indian Ocean dipole events in 2003, 2006 and 2007. <i>Climate Dynamics</i> , <b>2009</b> , 33, 751-767	4.2	56
17	Influence of Indian Ocean Dipole on boreal summer intraseasonal oscillations in a coupled general circulation model. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		16
16	Reduced Near-Surface Thermal Inversions in 2005-06 in the Southeastern Arabian Sea (Lakshadweep Sea)*. <i>Journal of Physical Oceanography</i> , <b>2009</b> , 39, 1184-1199	2.4	8
15	Influence of Indian Ocean Dipole on Poleward Propagation of Boreal Summer Intraseasonal Oscillations. <i>Journal of Climate</i> , <b>2008</b> , 21, 5437-5454	4.4	49
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> , <b>2008</b> , 86, 245-252	2.8	70
13	El Niño Modoki and its possible teleconnection. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		1770
12	Impacts of recent El Niño Modoki on dry/wet conditions in the Pacific rim during boreal summer. <i>Climate Dynamics</i> , <b>2007</b> , 29, 113-129	4.2	427
11	Termination of Indian Ocean Dipole Events in a Coupled General Circulation Model. <i>Journal of Climate</i> , <b>2007</b> , 20, 3018-3035	4.4	27
10	A CGCM Study on the Interaction between IOD and ENSO. <i>Journal of Climate</i> , <b>2006</b> , 19, 1688-1705	4.4	229
9	Subsurface influence on SST in the tropical Indian Ocean: structure and interannual variability. <i>Dynamics of Atmospheres and Oceans</i> , <b>2005</b> , 39, 103-135	1.9	143
8	Abrupt termination of Indian Ocean dipole events in response to intraseasonal disturbances. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	93
7	Comments on Dipoles, Temperature Gradients, and Tropical Climate Anomalies. <i>Bulletin of the American Meteorological Society</i> , <b>2003</b> , 84, 1418-1422	6.1	96
6	Comments on A Cautionary Note on the Interpretation of EOFs. <i>Journal of Climate</i> , <b>2003</b> , 16, 1087-1093	4.4	67
5	Modulation of Sri Lankan Maha rainfall by the Indian Ocean Dipole. <i>Geophysical Research Letters</i> , <b>2003</b> , 30,	4.9	78
4	Why were cool SST anomalies absent in the Bay of Bengal during the 1997 Indian Ocean Dipole Event?. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 50-1	4.9	48
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> , <b>2002</b> , 49, 1549-1572	2.3	257
2	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> , <b>2000</b> , 47, 1569-1582	2.5	8
1	Why coupled general circulation models overestimate the ENSO and Indian Summer Monsoon Rainfall (ISMR) relationship?. <i>Climate Dynamics</i> , 1	4.2	0

