Ramalingam Saravanan

List of Publications by Year
in descending order

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75 papers	6,878 citations	87888 38 h-index	88630 70 g-index
80 all docs	80 docs citations	80 times ranked	5792 citing authors

#	Article	IF	Citations
1	Oceanic Forcing of Sahel Rainfall on Interannual to Interdecadal Time Scales. Science, 2003, 302, 1027-1030.	12.6	904
2	North Atlantic climate variability: phenomena, impacts and mechanisms. International Journal of Climatology, 2001, 21, 1863-1898.	3.5	860
3	Interaction between Tropical Atlantic Variability and El NiÃ±oâ€“Southern Oscillation. Journal of Climate, 2000, 13, 2177-2194.	3.2	319
4	Pacific meridional mode and El NiÃ±oâ€”Southern Oscillation. Geophysical Research Letters, 2007, 34, .	4.0	289
5	The Effects of North Atlantic SST and Sea Ice Anomalies on the Winter Circulation in CCM3. Part II: Direct and Indirect Components of the Response. Journal of Climate, 2004, 17, 877-889.	3.2	253
6	The Effects of North Atlantic SST and Sea Ice Anomalies on the Winter Circulation in CCM3. Part I: Main Features and Storm Track Characteristics of the Response. Journal of Climate, 2004, 17, 857-876.	3.2	242
7	The cause of the fragile relationship between the Pacific El NiÃ±o and the Atlantic NiÃ±o. Nature, 2006, 443, 324-328.	27.8	206
8	Ocean barrier layersâ€™ effect on tropical cyclone intensification. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14343-14347.	7.1	202
9	The Effect of Local Sea Surface Temperatures on Atmospheric Circulation over the Tropical Atlantic Sector. Journal of Climate, 2000, 13, 2195-2216.	3.2	195
10	Interdecadal interactions between the tropics and midlatitudes in the Pacific Basin. Geophysical Research Letters, 1999, 26, 615-618.	4.0	190
11	Advective Oceanâ€“Atmosphere Interaction: An Analytical Stochastic Model with Implications for Decadal Variability. Journal of Climate, 1998, 11, 165-188.	3.2	163
12	Hurricanes and Climate: The U.S. CLIVAR Working Group on Hurricanes. Bulletin of the American Meteorological Society, 2015, 96, 997-1017.	3.3	158
13	Asian pollution climatically modulates mid-latitude cyclones following hierarchical modelling and observational analysis. Nature Communications, 2014, 5, 3098.	12.8	151
14	Distant Influence of Kuroshio Eddies on North Pacific Weather Patterns?. Scientific Reports, 2015, 5, 17785.	3.3	141
15	Tropical Pacific and Atlantic Climate Variability in CCSM3. Journal of Climate, 2006, 19, 2451-2481.	3.2	139
16	Atmospheric Low-Frequency Variability and Its Relationship to Midlatitude SST Variability: Studies Using the NCAR Climate System Model*. Journal of Climate, 1998, 11, 1386-1404.	3.2	133
17	The Community Climate System Model. Bulletin of the American Meteorological Society, 2001, 82, 2357-2376.	3.3	131
18	The preconditioning role of Tropical Atlantic Variability in the development of the ENSO teleconnection: implications for the prediction of Nordeste rainfall. Climate Dynamics, 2004, 22, 839-855.	3.8	120

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19	Importance of Resolving Kuroshio Front and Eddy Influence in Simulating the North Pacific Storm Track. Journal of Climate, 2017, 30, 1861-1880.	3.2	115
20	A Hybrid Coupled Model Study of Tropical Atlantic Variability. Journal of Climate, 2001, 14, 361-390.	3.2	110
21	An Unprecedented Set of Highâ€Resolution Earth System Simulations for Understanding Multiscale Interactions in Climate Variability and Change. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002298.	3.8	104
22	Variability of the South Atlantic Convergence Zone Simulated by an Atmospheric General Circulation Model. Journal of Climate, 2002, 15, 745-763.	3.2	90
23	The role of ocean dynamics in producing decadal climate variability in the North Pacific. Climate Dynamics, 2001, 18, 51-70.	3.8	89
24	Stochasticity and Spatial Resonance in Interdecadal Climate Fluctuations. Journal of Climate, 1997, 10, 2299-2320.	3.2	88
25	The Impact of the El NiÃ±oâ€“Southern Oscillation and Atlantic Meridional Mode on Seasonal Atlantic Tropical Cyclone Activity. Journal of Climate, 2014, 27, 5311-5328.	3.2	82
26	The Influence of ENSO Flavors on Western North Pacific Tropical Cyclone Activity. Journal of Climate, 2018, 31, 5395-5416.	3.2	80
27	Equatorial Superrotation and Maintenance of the General Circulation in Two-Level Models. Journals of the Atmospheric Sciences, 1993, 50, 1211-1227.	1.7	77
28	Origins of the midlatitude Pacific decadal variability. Geophysical Research Letters, 1999, 26, 1453-1456.	4.0	77
29	Three-dimensional quasi-geostrophic contour dynamics, with an application to stratospheric vortex dynamics. Quarterly Journal of the Royal Meteorological Society, 1994, 120, 1267-1297.	2.7	65
30	The Three-Dimensional Structure of Breaking Rossby Waves in the Polar Wintertime Stratosphere. Journals of the Atmospheric Sciences, 2000, 57, 3663-3685.	1.7	65
31	Multiple Equilibria, Natural Variability, and Climate Transitions in an Idealized Oceanâ€“Atmosphere Model. Journal of Climate, 1995, 8, 2296-2323.	3.2	63
32	PIRATA: A Sustained Observing System for Tropical Atlantic Climate Research and Forecasting. Earth and Space Science, 2019, 6, 577-616.	2.6	63
33	Dynamics of the boreal summer African monsoon in the NSIPP1 atmospheric model. Climate Dynamics, 2005, 25, 517-535.	3.8	58
34	Degree of simulated suppression of Atlantic tropical cyclones modulated by flavour of El NiÃ±o. Nature Geoscience, 2016, 9, 155-160.	12.9	56
35	An investigation of tropical Atlantic bias in a high-resolution coupled regional climate model. Climate Dynamics, 2012, 39, 2443-2463.	3.8	48
36	The Response of Atlantic Tropical Cyclones to Suppression of African Easterly Waves. Geophysical Research Letters, 2018, 45, 471-479.	4.0	47

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37	A Multiwave Model of the Quasi-biennial Oscillation. Journals of the Atmospheric Sciences, 1990, 47, 2465-2474.	1.7	45
38	Tropical Atlantic seasonal predictability: The roles of El NiÃ±o remote influence and thermodynamic air-sea feedback. Geophysical Research Letters, 2003, 30, n/a-n/a.	4.0	45
39	Simulated precipitation response to SST forcing and potential predictability in the region of the South Atlantic convergence zone. Climate Dynamics, 2005, 24, 105-114.	3.8	38
40	The Barrier Layer of the Atlantic warm pool: Formation mechanism and influence on the mean climate. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 64, 18162.	1.7	38
41	Decadal Variability and Predictability in the Midlatitude Oceanâ€“Atmosphere System. Journal of Climate, 2000, 13, 1073-1097.	3.2	35
42	Satellite-Observed Precipitation Response to Ocean Mesoscale Eddies. Journal of Climate, 2018, 31, 6879-6895.	3.2	35
43	Co-rotating stationary states and vertical alignment of geostrophic vortices with thin cores. Journal of Fluid Mechanics, 1998, 357, 321-349.	3.4	32
44	A teleconnection between Atlantic sea surface temperature and eastern and central North Pacific tropical cyclones. Geophysical Research Letters, 2017, 44, 1167-1174.	4.0	32
45	Dynamical elements of predicting boreal spring tropical Atlantic sea-surface temperatures. Dynamics of Atmospheres and Oceans, 2005, 39, 61-85.	1.8	31
46	Ocean fronts and eddies force atmospheric rivers and heavy precipitation in western North America. Nature Communications, 2021, 12, 1268.	12.8	29
47	On the interpretation of Caribbean paleoâ€temperature reconstructions during the Younger Dryas. Geophysical Research Letters, 2009, 36, .	4.0	26
48	Predictability of Linear Coupled Systems. Part I: Theoretical Analyses. Journal of Climate, 2004, 17, 1474-1486.	3.2	24
49	The Role of the Windâ€“Evaporationâ€“Sea Surface Temperature (WES) Feedback as a Thermodynamic Pathway for the Equatorward Propagation of High-Latitude Sea Iceâ€“Induced Cold Anomalies. Journal of Climate, 2011, 24, 1350-1361.	3.2	23
50	Oceanic mixed layer feedback and tropical Atlantic variability. Geophysical Research Letters, 1999, 26, 3629-3632.	4.0	21
51	Impact of Atlantic SST and high frequency atmospheric variability on the 1993 and 2008 Midwest floods: Regional climate model simulations of extreme climate events. Climatic Change, 2015, 129, 397-411.	3.6	21
52	Free and Forced Variability of the Tropical Atlantic Ocean: Role of the Windâ€“Evaporationâ€“Sea Surface Temperature Feedback. Journal of Climate, 2010, 23, 5958-5977.	3.2	20
53	Winter Extreme Flux Events in the Kuroshio and Gulf Stream Extension Regions and Relationship with Modes of North Pacific and Atlantic Variability. Journal of Climate, 2015, 28, 4950-4970.	3.2	17
54	Thermodynamic Coupling and Predictability of Tropical Sea Surface Temperature. Geophysical Monograph Series, 0, , 171-180.	0.1	15

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55	A Modeling Strategy for the Investigation of the Effect of Mesoscale SST Variability on Atmospheric Dynamics. Geophysical Research Letters, 2019, 46, 3982-3989.	4.0	15
56	On the Role of the South Atlantic Atmospheric Circulation in Tropical Atlantic Variability. Geophysical Monograph Series, 0, , 143-156.	0.1	14
57	Predictability of Linear Coupled Systems. Part II: An Application to a Simple Model of Tropical Atlantic Variability. Journal of Climate, 2004, 17, 1487-1503.	3.2	13
58	The role of the wind-evaporation-sea surface temperature (WES) feedback in airâ€“sea coupled tropical variability. Atmospheric Research, 2009, 94, 19-36.	4.1	13
59	Effect of Atlantic Meridional Overturning Circulation Changes on Tropical Atlantic Sea Surface Temperature Variability: A 2Â½-Layer Reduced-Gravity Ocean Model Study. Journal of Climate, 2010, 23, 312-332.	3.2	13
60	Influence of Mean Flow on the ENSOâ€“Vertical Wind Shear Relationship over the Northern Tropical Atlantic. Journal of Climate, 2012, 25, 858-864.	3.2	13
61	Effect of Atlantic Meridional Overturning Circulation on Tropical Atlantic Variability: A Regional Coupled Model Study. Journal of Climate, 2011, 24, 3323-3343.	3.2	11
62	Chaos in a periodically forced Lorenz system. Physical Review A, 1985, 31, 520-522.	2.5	10
63	Statistical significance of trends in monthly heavy precipitation over the US. Climate Dynamics, 2012, 38, 1375-1387.	3.8	10
64	High-Resolution Tropical Channel Model Simulations of Tropical Cyclone Climatology and Intraseasonal-to-Interannual Variability. Journal of Climate, 2019, 32, 7871-7895.	3.2	10
65	Central American mountains inhibit eastern North Pacific seasonal tropical cyclone activity. Nature Communications, 2021, 12, 4422.	12.8	10
66	Sensitivity of the Thermohaline Circulation to Surface Buoyancy Forcing in a Two-Dimensional Ocean Model. Journal of Physical Oceanography, 1996, 26, 1039-1058.	1.7	8
67	The response of atmospheric heat transport to zonally averaged SST trends. Tellus, Series A: Dynamic Meteorology and Oceanography, 1999, 51, 815-832.	1.7	8
68	Midlatitude Mesoscale Ocean-Atmosphere Interaction and Its Relevance to S2S Prediction. , 2019, , 183-200.		8
69	Tropical Pacific Ocean Dynamical Response to Short-Term Sulfate Aerosol Forcing. Journal of Climate, 2019, 32, 8205-8221.	3.2	6
70	Predictive Statistical Representations of Observed and Simulated Rainfall Using Generalized Linear Models. Journal of Climate, 2019, 32, 3409-3427.	3.2	6
71	Limit cycles in a forced Lorenz system. Physics Letters, Section A: General, Atomic and Solid State Physics, 1984, 104, 33-35.	2.1	4
72	Hurricanes and Climate: The U.S. CLIVAR Working Group on Hurricanes. Bulletin of the American Meteorological Society, 2015, 96, 1440.	3.3	2

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73	Evaluation of a Coupled Modeling Approach for the Investigation of the Effects of SST Mesoscale Variability on the Atmosphere. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002412.	3.8	2
74	Seasonal-to-decadal prediction using climate models: successes and challenges. , 2008, , 318-328.		1
75	Climate Impacts of CALIPSOâ€Guided Corrections to Black Carbon Aerosol Vertical Distributions in a Global Climate Model. Geophysical Research Letters, 2017, 44, 10,549.	4.0	0