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	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
2	Ocean fronts and eddies force atmospheric rivers and heavy precipitation in western North America. Nature Communications, 2021, 12, 1268.	12.8	29
3	Central American mountains inhibit eastern North Pacific seasonal tropical cyclone activity. Nature Communications, 2021, 12, 4422.	12.8	10
4	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
5	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
6	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
7	Tropical Pacific Ocean Dynamical Response to Short-Term Sulfate Aerosol Forcing. Journal of Climate, 2019, 32, 8205-8221.	3.2	6
8	PIRATA: A Sustained Observing System for Tropical Atlantic Climate Research and Forecasting. Earth and Space Science, 2019, 6, 577-616.	2.6	63
9	Predictive Statistical Representations of Observed and Simulated Rainfall Using Generalized Linear Models. Journal of Climate, 2019, 32, 3409-3427.	3.2	6
10	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
11	Midlatitude Mesoscale Ocean-Atmosphere Interaction and Its Relevance to S2S Prediction. , 2019, , 183-200.		8
12	The Response of Atlantic Tropical Cyclones to Suppression of African Easterly Waves. Geophysical Research Letters, 2018, 45, 471-479.	4.0	47
13	The Influence of ENSO Flavors on Western North Pacific Tropical Cyclone Activity. Journal of Climate, 2018, 31, 5395-5416.	3.2	80
14	Satellite-Observed Precipitation Response to Ocean Mesoscale Eddies. Journal of Climate, 2018, 31, 6879-6895.	3.2	35
15	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
16	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
17	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
18	Degree of simulated suppression of Atlantic tropical cyclones modulated by flavour of El NiÃ±o. Nature Geoscience, 2016, 9, 155-160.	12.9	56

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19	Distant Influence of Kuroshio Eddies on North Pacific Weather Patterns?. Scientific Reports, 2015, 5, 17785.	3.3	141
20	Hurricanes and Climate: The U.S. CLIVAR Working Group on Hurricanes. Bulletin of the American Meteorological Society, 2015, 96, 997-1017.	3.3	158
21	Hurricanes and Climate: The U.S. CLIVAR Working Group on Hurricanes. Bulletin of the American Meteorological Society, 2015, 96, 1440.	3.3	2
22	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
23	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
24	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
25	Asian pollution climatically modulates mid-latitude cyclones following hierarchical modelling and observational analysis. Nature Communications, 2014, 5, 3098.	12.8	151
26	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
27	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
28	An investigation of tropical Atlantic bias in a high-resolution coupled regional climate model. Climate Dynamics, 2012, 39, 2443-2463.	3.8	48
29	Statistical significance of trends in monthly heavy precipitation over the US. Climate Dynamics, 2012, 38, 1375-1387.	3.8	10
30	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
31	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
32	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
33	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
34	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
35	On the interpretation of Caribbean paleoâ€temperature reconstructions during the Younger Dryas. Geophysical Research Letters, 2009, 36, .	4.0	26
36	Seasonal-to-decadal prediction using climate models: successes and challenges. , 2008, , 318-328.		1

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37	Pacific meridional mode and El NiÃ±oâ€"Southern Oscillation. Geophysical Research Letters, 2007, 34, .	4.0	289
38	Tropical Pacific and Atlantic Climate Variability in CCSM3. Journal of Climate, 2006, 19, 2451-2481.	3.2	139
39	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
40	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
41	Dynamics of the boreal summer African monsoon in the NSIPP1 atmospheric model. Climate Dynamics, 2005, 25, 517-535.	3.8	58
42	Dynamical elements of predicting boreal spring tropical Atlantic sea-surface temperatures. Dynamics of Atmospheres and Oceans, 2005, 39, 61-85.	1.8	31
43	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
44	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
45	Predictability of Linear Coupled Systems. Part I: Theoretical Analyses. Journal of Climate, 2004, 17, 1474-1486.	3.2	24
46	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
47	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
48	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
49	Oceanic Forcing of Sahel Rainfall on Interannual to Interdecadal Time Scales. Science, 2003, 302, 1027-1030.	12.6	904
50	Variability of the South Atlantic Convergence Zone Simulated by an Atmospheric General Circulation Model. Journal of Climate, 2002, 15, 745-763.	3.2	90
51	A Hybrid Coupled Model Study of Tropical Atlantic Variability. Journal of Climate, 2001, 14, 361-390.	3.2	110
52	The Community Climate System Model. Bulletin of the American Meteorological Society, 2001, 82, 2357-2376.	3.3	131
53	The role of ocean dynamics in producing decadal climate variability in the North Pacific. Climate Dynamics, 2001, 18, 51-70.	3.8	89
54	North Atlantic climate variability: phenomena, impacts and mechanisms. International Journal of Climatology, 2001, 21, 1863-1898.	3.5	860

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55	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
56	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
57	Decadal Variability and Predictability in the Midlatitude Oceanâ€“Atmosphere System. Journal of Climate, 2000, 13, 1073-1097.	3.2	35
58	Interaction between Tropical Atlantic Variability and El NiÃ±oâ€“Southern Oscillation. Journal of Climate, 2000, 13, 2177-2194.	3.2	319
59	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
60	Oceanic mixed layer feedback and tropical Atlantic variability. Geophysical Research Letters, 1999, 26, 3629-3632.	4.0	21
61	Interdecadal interactions between the tropics and midlatitudes in the Pacific Basin. Geophysical Research Letters, 1999, 26, 615-618.	4.0	190
62	Origins of the midlatitude Pacific decadal variability. Geophysical Research Letters, 1999, 26, 1453-1456.	4.0	77
63	Co-rotating stationary states and vertical alignment of geostrophic vortices with thin cores. Journal of Fluid Mechanics, 1998, 357, 321-349.	3.4	32
64	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
65	Advective Oceanâ€“Atmosphere Interaction: An Analytical Stochastic Model with Implications for Decadal Variability. Journal of Climate, 1998, 11, 165-188.	3.2	163
66	Stochasticity and Spatial Resonance in Interdecadal Climate Fluctuations. Journal of Climate, 1997, 10, 2299-2320.	3.2	88
67	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
68	Multiple Equilibria, Natural Variability, and Climate Transitions in an Idealized Oceanâ€“Atmosphere Model. Journal of Climate, 1995, 8, 2296-2323.	3.2	63
69	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
70	Equatorial Superrotation and Maintenance of the General Circulation in Two-Level Models. Journals of the Atmospheric Sciences, 1993, 50, 1211-1227.	1.7	77
71	A Multiwave Model of the Quasi-biennial Oscillation. Journals of the Atmospheric Sciences, 1990, 47, 2465-2474.	1.7	45
72	Chaos in a periodically forced Lorenz system. Physical Review A, 1985, 31, 520-522.	2.5	10

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73	Limit cycles in a forced Lorenz system. Physics Letters, Section A: General, Atomic and Solid State Physics, 1984, 104, 33-35.	2.1	4
74	On the Role of the South Atlantic Atmospheric Circulation in Tropical Atlantic Variability. Geophysical Monograph Series, 0, , 143-156.	0.1	14
75	Thermodynamic Coupling and Predictability of Tropical Sea Surface Temperature. Geophysical Monograph Series, 0, , 171-180.	0.1	15