Chellappan Gnanaseelan

List of Publications by Year
in descending order

123 papers	2,448 citations	293460 24 h-index	325983 40 g-index
123 all docs	123 docs citations	123 times ranked	1794 citing authors

#	Article	IF	Citations
1	Meridional displacement of the Asian jet and its impact on Indian summer monsoon rainfall in observations and CFSv2 hindcast. Climate Dynamics, 2022, 58, 811-829.	1.7	9
2	A quantile mapping approachâ€based bias correction in Coupled Model Intercomparison Project Phase 5 models for decadal temperature predictions over India. International Journal of Climatology, 2022, 42, 2455-2469.	1.5	4
3	Prolonged La NiÃ±a events and the associated heat distribution in the Tropical Indian Ocean. Climate Dynamics, 2022, 58, 2351-2369.	1.7	6
4	Dynamical and moist thermodynamical processes associated with Western Ghats rainfall decadal variability. Npj Climate and Atmospheric Science, 2022, 5, .	2.6	9
5	Thank You to Our 2021 Reviewers. Journal of Geophysical Research: Oceans, 2022, 127, .	1.0	0
6	Interdecadal modulation of interannual <scp>ENSOâ€Indian</scp> summer monsoon rainfall teleconnections in observations and <scp>CMIP6</scp> models: Regional patterns. International Journal of Climatology, 2021, 41, 2528-2552.	1.5	18
7	Southern annular mode teleconnections to Indian summer monsoon. , 2021, , 335-352.		0
8	The sea level variability and its projections over the Indoâ€Pacific Ocean in CMIP5 models. Climate Dynamics, 2021, 57, 173-193.	1.7	4
9	Influence of multi-mission chlorophyll-a data on the simulation of upper ocean thermal structure in the eastern Pacific Ocean. International Journal of Remote Sensing, 2021, 42, 3445-3455.	1.3	0
10	Decadal prediction skill for spring and summer surface air-temperature over India and its association with SST patterns in CFSv2 and CNRM coupled models. Journal of Earth System Science, 2021, 130, 1.	0.6	0
11	The decadal sea level variability observed in the Indian Ocean tide gauge records and its association with global climate modes. Global and Planetary Change, 2021, 198, 103427.	1.6	10
12	Assessment of APCC models fidelity in simulating the Northeast monsoon rainfall variability over Southern Peninsular India. Theoretical and Applied Climatology, 2021, 144, 931-948.	1.3	0
13	Revisiting the Recharge and Discharge Processes for Different Flavors of El NiÃ±o. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC017075.	1.0	1
14	A new mode of decadal variability in the Tropical Indian Ocean subsurface temperature and its association with shallow meridional overturning circulation. Global and Planetary Change, 2021, 207, 103656.	1.6	3
15	Assessment of CMIP6 models' skill for tropical Indian Ocean sea surface temperature variability. International Journal of Climatology, 2021, 41, 2568-2588.	1.5	17
16	Impact of excess and deficit river runoff on Bay of Bengal upper ocean characteristics using an ocean general circulation model. Deep-Sea Research Part II: Topical Studies in Oceanography, 2020, 172, 104714.	0.6	24
17	Interdecadal modulation of the Indo-western Pacific Ocean Capacitor mode and its influence on Indian summer monsoon rainfall. Climate Dynamics, 2020, 54, 1761-1777.	1.7	10
18	Decadal variability of tropical Indian Ocean sea surface temperature and its impact on the Indian summer monsoon. Theoretical and Applied Climatology, 2020, 141, 551-566.	1.3	16

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19	Diversity in ENSO remote connection to northeast monsoon rainfall in observations and CMIP5 models. Theoretical and Applied Climatology, 2020, 141, 827-839.	1.3	5
20	Multidecadal to decadal variability in the equatorial Indian Ocean subsurface temperature and the forcing mechanisms. Climate Dynamics, 2020, 54, 3475-3487.	1.7	24
21	Asymmetry in the tropical Indian Ocean subsurface temperature variability. Dynamics of Atmospheres and Oceans, 2020, 90, 101142.	0.7	10
22	Introduction to Climate Change Over the Indian Region. , 2020, , 1-20.		26
23	Indian Ocean Warming. , 2020, , 191-206.		35
24	Sensitivity of Subsurface Processes of Equatorial Pacific Ocean to the Heat and Momentum Fluxes: A Case Study of 1997-98 El NiÃ±o. Journal of Coastal Research, 2020, 89, 26.	0.1	1
25	Warming Trends in the Central Equatorial Indian Ocean and the Associated Coupled Feedback Processes. Journal of Coastal Research, 2020, 89, 39.	0.1	1
26	Indian Ocean Warming Trends and Forcing Mechanism with Emphasis on Northeastern Tropical Indian Ocean. Journal of Coastal Research, 2020, 89, 15.	0.1	1
27	Northeast monsoon rainfall variability over the southern Peninsular India associated with multiyear La NiÃ±a events. Climate Dynamics, 2019, 53, 6265-6291.	1.7	5
28	Variability of Intraseasonal Oscillations and Synoptic Signals in Sea Surface Salinity in the Bay of Bengal. Journal of Climate, 2019, 32, 6703-6728.	1.2	14
29	Impact of the Indo-Western Pacific Ocean Capacitor mode on South Asian summer monsoon rainfall. Climate Dynamics, 2019, 53, 2327-2338.	1.7	41
30	Impact of differences in the decaying phase of El NiÃ±o on South and East Asia summer monsoon in CMIP5 models. International Journal of Climatology, 2019, 39, 5503-5521.	1.5	7
31	Evolution of Sea Surface Salinity Anomalies in the Southwestern Tropical Indian Ocean During 2010â€“2011 Influenced by a Negative IOD Event. Journal of Geophysical Research: Oceans, 2019, 124, 3428-3445.	1.0	15
32	The Tropical Indian Ocean decadal sea level response to the Pacific Decadal Oscillation forcing. Climate Dynamics, 2019, 52, 5045-5058.	1.7	41
33	Biases in the Tropical Indian Ocean subsurface temperature variability in a coupled model. Climate Dynamics, 2019, 52, 5325-5344.	1.7	2
34	Impact of multiyear La NiÃ±a events on the South and East Asian summer monsoon rainfall in observations and CMIP5 models. Climate Dynamics, 2019, 52, 6989-7011.	1.7	11
35	Month-to-month variability of Indian summer monsoon rainfall in 2016: role of the Indo-Pacific climatic conditions. Climate Dynamics, 2019, 52, 1157-1171.	1.7	5
36	Recent changes in the summer monsoon circulation and their impact on dynamics and thermodynamics of the Arabian Sea. Theoretical and Applied Climatology, 2019, 136, 321-331.	1.3	14

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37	Influence of the Pacificâ€“Japan Pattern on Indian Summer Monsoon Rainfall. Journal of Climate, 2018, 31, 3943-3958.	1.2	39
38	Inter comparison of Tropical Indian Ocean features in different ocean reanalysis products. Climate Dynamics, 2018, 51, 119-141.	1.7	30
39	Equatorial Indian Ocean subsurface current variability in an Ocean General Circulation Model. Climate Dynamics, 2018, 50, 1705-1717.	1.7	8
40	Indian summer monsoon rainfall variability during 2014 and 2015 and associated Indo-Pacific upper ocean temperature patterns. Theoretical and Applied Climatology, 2018, 131, 1235-1247.	1.3	9
41	Reanalysis of the Indian summer monsoon: four dimensional data assimilation of AIRS retrievals in a regional data assimilation and modeling framework. Climate Dynamics, 2018, 50, 2905-2923.	1.7	16
42	Diversity in the representation of large-scale circulation associated with ENSO-Indian summer monsoon teleconnections in CMIP5 models. Theoretical and Applied Climatology, 2018, 132, 465-478.	1.3	18
43	The interannual sea level variability in the Indian Ocean as simulated by an Ocean General Circulation Model. International Journal of Climatology, 2018, 38, 1132-1144.	1.5	28
44	Association between mean and interannual equatorial Indian Ocean subsurface temperature bias in a coupled model. Climate Dynamics, 2018, 50, 1659-1673.	1.7	13
45	Indian Summer Monsoon Sub-seasonal Low-Level Circulation Predictability and its Association with Rainfall in a Coupled Model. Pure and Applied Geophysics, 2018, 175, 449-463.	0.8	3
46	Role of ocean-atmosphere interactions in modulating the 2016 La NiÃ±a like pattern over the tropical Pacific. Dynamics of Atmospheres and Oceans, 2018, 83, 100-110.	0.7	4
47	Tropospheric biennial oscillation and south Asian summer monsoon rainfall in a coupled model. Journal of Earth System Science, 2018, 127, 1.	0.6	3
48	Role of Ocean Initial Conditions to Diminish Dry Bias in the Seasonal Prediction of Indian Summer Monsoon Rainfall: A Case Study Using Climate Forecast System. Journal of Advances in Modeling Earth Systems, 2018, 10, 603-616.	1.3	13
49	Impact of satellite data assimilation on the predictability of monsoon intraseasonal oscillations in a regional model. Remote Sensing Letters, 2017, 8, 686-695.	0.6	4
50	Interannual spring Wyrtki jet variability and its regional impacts. Dynamics of Atmospheres and Oceans, 2017, 78, 26-37.	0.7	11
51	Response of the tropical Indian Ocean SST to decay phase of La NiÃ±a and associated processes. Dynamics of Atmospheres and Oceans, 2017, 80, 110-123.	0.7	6
52	Indian summer monsoon rainfall variability in response to differences in the decay phase of El NiÃ±o. Climate Dynamics, 2017, 48, 2707-2727.	1.7	65
53	Variability and Trends of Sea Surface Temperature and Circulation in the Indian Ocean. Springer Geology, 2017, , 165-179.	0.2	19
54	Sea Level Variability and Trends in the North Indian Ocean. Springer Geology, 2017, , 181-192.	0.2	4

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55	North-East monsoon rainfall extremes over the southern peninsular India and their association with El NiÃ±o. Dynamics of Atmospheres and Oceans, 2017, 80, 1-11.	0.7	15
56	Representation of Bay of Bengal Upper-Ocean Salinity in General Circulation Models. Oceanography, 2016, 29, 38-49.	0.5	25
57	Impact of upper ocean processes and air-sea fluxes on seasonal SST biases over the tropical Indian Ocean in the NCEP Climate Forecasting System. International Journal of Climatology, 2016, 36, 188-207.	1.5	18
58	Processes Associated with the Tropical Indian Ocean Subsurface Temperature Bias in a Coupled Model. Journal of Physical Oceanography, 2016, 46, 2863-2875.	0.7	18
59	Tropical Indian Ocean response to the decay phase of El NiÃ±o in a coupled model and associated changes in south and east-Asian summer monsoon circulation and rainfall. Climate Dynamics, 2016, 47, 831-844.	1.7	19
60	Tropical Indian Ocean surface salinity bias in Climate Forecasting System coupled models and the role of upper ocean processes. Climate Dynamics, 2016, 46, 2403-2422.	1.7	14
61	Combined influence of remote and local SST forcing on Indian Summer Monsoon Rainfall variability. Climate Dynamics, 2016, 47, 2817-2831.	1.7	23
62	Interannual variability of upper ocean stratification in Bay of Bengal: observational and modeling aspects. Theoretical and Applied Climatology, 2016, 126, 285-301.	1.3	17
63	Indian summer monsoon intra-seasonal oscillation associated with the developing and decaying phase of El NiÃ±o. International Journal of Climatology, 2016, 36, 1846-1862.	1.5	21
64	Arabian Sea <scp>SST</scp> evolution during spring to summer transition period and the associated processes in coupled climate models. International Journal of Climatology, 2016, 36, 2541-2554.	1.5	13
65	Can large scale surface circulation changes modulate the sea surface warming pattern in the Tropical Indian Ocean?. Climate Dynamics, 2016, 46, 3617-3632.	1.7	22
66	Evaluation of the impact of AIRS profiles on prediction of Indian summer monsoon using WRF variational data assimilation system. Journal of Geophysical Research D: Atmospheres, 2015, 120, 8112-8131.	1.2	22
67	Subseasonal variations of Indian summer monsoon with special emphasis on drought and excess rainfall years. International Journal of Climatology, 2015, 35, 570-582.	1.5	24
68	Role of tropical Indian Ocean airâ€“sea interactions in modulating Indian summer monsoon in a coupled model. Atmospheric Science Letters, 2015, 16, 170-176.	0.8	33
69	Assessment of the Indian summer monsoon in the WRF regional climate model. Climate Dynamics, 2015, 44, 3077-3100.	1.7	56
70	Role of upper ocean processes in the seasonal SST evolution over tropical Indian Ocean in climate forecasting system. Climate Dynamics, 2015, 45, 2387-2405.	1.7	18
71	Tropical Indian Ocean subsurface temperature variability and the forcing mechanisms. Climate Dynamics, 2015, 44, 2447-2462.	1.7	53
72	Estimation of Improvement in Indian Summer Monsoon Circulation by Assimilation of Satellite Retrieved Temperature Profiles in WRF Model. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 1591-1600.	2.3	11

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73	Seasonal Prediction of Distinct Climate Anomalies in Summer 2010 over the Tropical Indian Ocean and South Asia. Journal of the Meteorological Society of Japan, 2014, 92, 1-16.	0.7	19
74	Evolution of Vertical Moist Thermodynamic Structure Associated with the Indian Summer Monsoon 2010 in a Regional Climate Model. Pure and Applied Geophysics, 2014, 171, 1499-1518.	0.8	18
75	Impact of satellite-retrieved atmospheric temperature profiles assimilation on Asian summer monsoon 2010 simulation. Theoretical and Applied Climatology, 2014, 116, 317-326.	1.3	17
76	Role of thermoclineâ€“SST coupling in the evolution of IOD events and their regional impacts. Climate Dynamics, 2014, 43, 163-174.	1.7	23
77	Summer monsoon circulation and precipitation over the tropical Indian Ocean during ENSO in the NCEP climate forecast system. Climate Dynamics, 2014, 42, 1925-1947.	1.7	19
78	Epochal changes in the seasonal evolution of tropical Indian Ocean warming associated with El NiÃ±o. Climate Dynamics, 2014, 42, 805-822.	1.7	25
79	Indian summer monsoon rainfall predictability and variability associated with Northwest Pacific circulation in a suit of coupled model hindcasts. Theoretical and Applied Climatology, 2014, 118, 69-79.	1.3	7
80	Inter-decadal modulation of ENSO teleconnections to the Indian Ocean in a coupled model: Special emphasis on decay phase of El NiÃ±o. Global and Planetary Change, 2014, 112, 33-40.	1.6	20
81	The role of Arabian Sea in the evolution of Indian Ocean Dipole. International Journal of Climatology, 2014, 34, 1845-1859.	1.5	13
82	Impact of Oceanic Processes on the Life Cycle of Severe Cyclonic Storm â€œJalâ€• IEEE Geoscience and Remote Sensing Letters, 2014, 11, 519-523.	1.4	13
83	Relative role of <scp>E</scp>l <scp>N</scp>iÃ±o and IOD forcing on the southern tropical <scp>I</scp>ndian <scp>O</scp>cean <scp>R</scp>ossby waves. Journal of Geophysical Research: Oceans, 2014, 119, 5105-5122.	1.0	50
84	Interannual variability of surface airâ€temperature over India: impact of <scp>ENSO</scp> and Indian Ocean Sea surface temperature. International Journal of Climatology, 2014, 34, 416-429.	1.5	43
85	Spring asymmetric mode in the tropical Indian Ocean: role of El NiÃ±o and IOD. Climate Dynamics, 2013, 40, 1467-1481.	1.7	41
86	Impact of Northwest Pacific anticyclone on the Indian summer monsoon region. Theoretical and Applied Climatology, 2013, 113, 329-336.	1.3	34
87	Impact of prolonged La NiÃ±a events on the Indian Ocean with a special emphasis on southwest Tropical Indian Ocean SST. Global and Planetary Change, 2013, 100, 28-37.	1.6	25
88	Net Heat Flux Over the Indian Ocean: Trends, Driving Mechanisms, and Uncertainties. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 776-780.	1.4	31
89	Mechanism of intraseasonal oceanic signature in the region off southern tip of India during boreal summer. International Journal of Climatology, 2013, 33, 2280-2288.	1.5	2
90	On the epochal variation of intensity of tropical cyclones in the Arabian Sea. Atmospheric Science Letters, 2013, 14, 249-255.	0.8	49

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91	Study the Mechanism of Surface Chlorophyllâ€“a Variability in the Southern Tropical Indian Ocean Using an OGCM. Marine Geodesy, 2012, 35, 246-256.	0.9	2
92	Influence of El NiÃ±o and Indian Ocean Dipole on sea level variability in the Bay of Bengal. Global and Planetary Change, 2012, 80-81, 215-225.	1.6	95
93	Impact of Indian Ocean Dipole and El NiÃ±o/Southern Oscillation windâ€forcing on the Wyrtki jets. Journal of Geophysical Research, 2012, 117, .	3.3	56
94	A Model Study on Understanding the Influence of Arabian Sea Mini Warm Pool on Monsoon Onset Vortex Formation. Pure and Applied Geophysics, 2012, 169, 1693-1706.	0.8	7
95	Impact of tropical cyclones on the intensity and phase propagation of fall Wyrtki jets. Geophysical Research Letters, 2012, 39, .	1.5	15
96	Anomalous intraseasonal events in the thermocline ridge region of Southern Tropical Indian Ocean and their regional impacts. Journal of Geophysical Research, 2012, 117, .	3.3	19
97	Processes of 30â€“90Âdays sea surface temperature variability in the northern Indian Ocean during boreal summer. Climate Dynamics, 2012, 38, 1901-1916.	1.7	69
98	Impact of improved momentum transfer coefficients on the dynamics and thermodynamics of the north Indian Ocean. Journal of Geophysical Research, 2011, 116, .	3.3	14
99	Processes controlling the surface temperature signature of the Maddenâ€“Julian Oscillation in the thermocline ridge of the Indian Ocean. Climate Dynamics, 2011, 37, 2217-2234.	1.7	55
100	Intraseasonal signals in the daily high resolution blended Reynolds sea surface temperature product over the tropical Indian Ocean and their validation. International Journal of Remote Sensing, 2011, 32, 4835-4856.	1.3	7
101	Interannual variability in the Biannual Rossby waves in the tropical Indian Ocean and its relation to Indian Ocean Dipole and El Nino forcing. Ocean Dynamics, 2010, 60, 27-40.	0.9	33
102	On the relationship between Arabian Sea warm pool and formation of onset vortex over east-central Arabian Sea. Meteorology and Atmospheric Physics, 2010, 108, 113-125.	0.9	6
103	Variability of mini cold pool off the southern tip of India as revealed from a thermodynamic upper ocean model. Meteorology and Atmospheric Physics, 2009, 104, 229-238.	0.9	4
104	A model study on oceanic processes during the Indian Ocean Dipole termination. Meteorology and Atmospheric Physics, 2009, 105, 17-27.	0.9	10
105	Westward propagation of barrier layer formation in the 2006â€“07 Rossby wave event over the tropical southwest Indian Ocean. Geophysical Research Letters, 2009, 36, .	1.5	74
106	North Indian Ocean warming and sea level rise in an OGCM. Journal of Earth System Science, 2008, 117, 169-178.	0.6	20
107	Evaluation of several different planetary boundary layer schemes within a single model, a unified model and a multimodel superensemble. Tellus, Series A: Dynamic Meteorology and Oceanography, 2008, 60, 42-61.	0.8	7
108	Impact of Biannual Rossby Waves on the Indian Ocean Dipole. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 427-429.	1.4	22

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109	Improved Forecasts of the Diurnal Cycle in the Tropics Using Multiple Global Models. Part I: Precipitation. Journal of Climate, 2008, 21, 4029-4043.	1.2	8
110	Prediction of the Diurnal Change Using a Multimodel Superensemble. Part I: Precipitation. Monthly Weather Review, 2007, 135, 3613-3632.	0.5	18
111	Prediction of the Diurnal Cycle Using a Multimodel Superensemble. Part II: Clouds. Monthly Weather Review, 2007, 135, 4097-4116.	0.5	14
112	Basin-wide warming of the Indian Ocean during El NiÃ±o and Indian Ocean dipole years. International Journal of Climatology, 2007, 27, 1421-1438.	1.5	108
113	Influence of Pacific on Southern Indian Ocean Rossby Waves. Pure and Applied Geophysics, 2007, 164, 1765-1785.	0.8	18
114	Evolutionary Features of Marine Atmospheric Boundary Layer (MABL) over the Arabian Sea and the Onset of Monsoon over Kerala during ARMEX-2003. Pure and Applied Geophysics, 2007, 164, 1861-1880.	0.8	2
115	Influence of Pacific on Southern Indian Ocean Rossby Waves. , 2007, , 1765-1785.		0
116	Changing trends in the tropical Indian Ocean SST during La NiÃ±a years. Geophysical Research Letters, 2006, 33, n/a-n/a.	1.5	24
117	Variability in the Indian Ocean circulation and salinity and its impact on SST anomalies during dipole events. Journal of Marine Research, 2006, 64, 853-880.	0.3	114
118	Prediction of the diurnal cycle of clouds using a multimodel superensemble and ISCCP data sets. , 2006, , .		0
119	A study on the variability of atmospheric and oceanic processes over the Arabian Sea during contrasting monsoons. Meteorology and Atmospheric Physics, 2006, 94, 65-85.	0.9	12
120	Hydrography and water masses in the southeastern Arabian Sea during Marchâ€“June 2003. Journal of Earth System Science, 2005, 114, 475-491.	0.6	42
121	Water mass properties and transports in the Arabian Sea from Argo observations. Vital, 2005, 10, 235-260.	0.0	9
122	Evolution and collapse of Arabian Sea warm pool during two contrasting monsoons 2002 and 2003. Mausam, 2005, 56, 187-200.	0.1	9
123	Relationship between the Indo-western Pacific Ocean capacitor mode and Indian summer monsoon rainfall in CMIP6 models. Climate Dynamics, 0, , 1.	1.7	2