Raghu G Murtugudde

List of Publications by Year
in descending order

64	3,538	218677	144013
papers	citations	26 h-index	57 g-index

65	65	65	3556
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Drying of Indian subcontinent by rapid Indian Ocean warming and a weakening land-sea thermal gradient. Nature Communications, 2015, 6, 7423.	12.8	534
2	Oceanic processes associated with anomalous events in the Indian Ocean with relevance to 1997-1998. Journal of Geophysical Research, 2000, 105, 3295-3306.	3.3	495
3	A threefold rise in widespread extreme rain events over central India. Nature Communications, 2017, 8, 708.	12.8	393
4	Strong influence of westerly wind bursts on El NiÃ±o diversity. Nature Geoscience, 2015, 8, 339-345.	12.9	277
5	Effects of Penetrative Radiation on the Upper Tropical Ocean Circulation. Journal of Climate, 2002, 15, 470-486.	3.2	225
6	Temperature Advection by Tropical Instability Waves. Journal of Physical Oceanography, 2006, 36, 592-605.	1.7	100
7	Biogeochemical modelling of the tropical Pacific Ocean. I: Seasonal and interannual variability. Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 49, 509-543.	1.4	98
8	Climate change, extreme events and increased risk of salmonellosis in Maryland, USA: Evidence for coastal vulnerability. Environment International, 2015, 83, 58-62.	10.0	90
9	Global correlations between winds and ocean chlorophyll. Journal of Geophysical Research, 2010, 115, .	3.3	81
10	Regulation of phytoplankton carbon to chlorophyll ratio by light, nutrients and temperature in the Equatorial Pacific Ocean: a basin-scale model. Biogeosciences, 2009, 6, 391-404.	3.3	78
11	Snowfall Variability Dictates Glacier Mass Balance Variability in Himalaya-Karakoram. Scientific Reports, 2019, 9, 18192.	3.3	60
12	The Maddenâ€“Julian Oscillation in CCSM4. Journal of Climate, 2011, 24, 6261-6282.	3.2	59
13	Monsoon Regimes and Processes in CCSM4. Part I: The Asianâ€“Australian Monsoon. Journal of Climate, 2012, 25, 2583-2608.	3.2	57
14	Role of Oceanic and Terrestrial Atmospheric Moisture Sources in Intraseasonal Variability of Indian Summer Monsoon Rainfall. Scientific Reports, 2017, 7, 12729.	3.3	56
15	Impact of Northward-Propagating Intraseasonal Variability on the Onset of Indian Summer Monsoon. Journal of Climate, 2014, 27, 126-139.	3.2	52
16	Internal Variability of Indian Ocean SST. Journal of Climate, 2005, 18, 3726-3738.	3.2	50
17	Influence of the Atlantic zonal mode on monsoon depressions in the Bay of Bengal during boreal summer. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6456-6469.	3.3	48
18	Improved Maddenâ€“Julian Oscillations with Improved Physics: The Impact of Modified Convection Parameterizations. Journal of Climate, 2012, 25, 1116-1136.	3.2	46

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19	Progress in understanding of Indian Ocean circulation, variability, airâ€“sea exchange, and impacts on biogeochemistry. Ocean Science, 2021, 17, 1677-1751.	3.4	43
20	Modulation of monsoon intraseasonal oscillations in the recent warming period. Journal of Geophysical Research D: Atmospheres, 2014, 119, 5185-5203.	3.3	40
21	Seasonal Influence of Indonesian Throughflow in the Southwestern Indian Ocean. Journal of Physical Oceanography, 2008, 38, 1529-1541.	1.7	38
22	Extreme precipitation events and increased risk of campylobacteriosis in Maryland, U.S.A. Environmental Research, 2016, 149, 216-221.	7.5	37
23	Internal variability of the tropical Pacific ocean. Geophysical Research Letters, 2004, 31, .	4.0	35
24	Impacts of Intraseasonal SST Anomalies on Precipitation during Indian Summer Monsoon. Journal of Climate, 2015, 28, 4561-4575.	3.2	34
25	Moisture Supply From the Western Ghats Forests to Water Deficit East Coast of India. Geophysical Research Letters, 2018, 45, 4337-4344.	4.0	32
26	Role of ocean biologyâ€induced climate feedback in the modulation of El NiÃ±oâ€Southern Oscillation. Geophysical Research Letters, 2009, 36, .	4.0	31
27	Spatial and temporal variations in dissolved and particulate organic nitrogen in the equatorial Pacific: biological and physical influences. Biogeosciences, 2008, 5, 1705-1721.	3.3	30
28	Spatiotemporal characteristics of seasonal to multidecadal variability of p<scp>CO</scp>₂ and airâ€sea <scp>CO</scp>₂ fluxes in the equatorial <scp>P</scp>acific <scp>O</scp>cean. Journal of Geophysical Research: Oceans, 2014, 119, 8987-9012.	2.6	27
29	Modulation of tropical ocean surface chlorophyll by the Maddenâ€“Julian Oscillation. Climate Dynamics, 2013, 40, 39-58.	3.8	26
30	Seasonal to decadal variations of sea surface pCO₂ and seaâ€air CO₂ flux in the equatorial oceans over 1984â€“2013: A basinâ€scale comparison of the Pacific and Atlantic Oceans. Global Biogeochemical Cycles, 2015, 29, 597-609.	4.9	26
31	A Central Indian Ocean Mode and Heavy Precipitation during the Indian Summer Monsoon. Journal of Climate, 2017, 30, 2055-2067.	3.2	25
32	Kinetic Energy Budget for the Maddenâ€“Julian Oscillation in a Multiscale Framework. Journal of Climate, 2012, 25, 5386-5403.	3.2	24
33	Oceanâ€“atmosphere processes driving Indian summer monsoon biases in CFSv2 hindcasts. Climate Dynamics, 2016, 47, 1417-1433.	3.8	24
34	Phytoplankton carbon and chlorophyll distributions in the equatorial Pacific and Atlantic: A basin-scale comparative study. Journal of Marine Systems, 2013, 109-110, 138-148.	2.1	23
35	Spatial and temporal variability of the phytoplankton carbon to chlorophyll ratio in the equatorial Pacific: A basinâ€scale modeling study. Journal of Geophysical Research, 2009, 114, .	3.3	20
36	Associations between alteration in plant phenology and hay fever prevalence among US adults: Implication for changing climate. PLoS ONE, 2019, 14, e0212010.	2.5	17

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37	Seasonal and Interannual Variabilities of the Central Indian Ocean Mode. Journal of Climate, 2017, 30, 6505-6520.	3.2	16
38	The Role of Vorticity Tilting in Northwardâ€Propagating Monsoon Intraseasonal Oscillation. Geophysical Research Letters, 2021, 48, e2021GL093304.	4.0	15
39	Feedback From Vegetation to Interannual Variations of Indian Summer Monsoon Rainfall. Water Resources Research, 2021, 57, e2020WR028750.	4.2	14
40	A Potential Link Between the Southern Ocean Warming and the South Indian Ocean Heat Balance. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016132.	2.6	12
41	Internal Variability of the Tropical Atlantic Ocean. Geophysical Monograph Series, 0, , 181-188.	0.1	11
42	Tropical Indoâ€Pacific Ocean chlorophyll response to MJO forcing. Journal of Geophysical Research, 2012, 117, .	3.3	10
43	Simulation of Central Indian Ocean Mode in S2S Models. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033550.	3.3	10
44	Role of extreme weather events and El NiÃ±o Southern Oscillation on incidence of Enteric Fever in Ahmedabad and Surat, Gujarat, India. Environmental Research, 2021, 196, 110417.	7.5	9
45	Increased cyclone destruction potential in the Southern Indian Ocean. Environmental Research Letters, 2021, 16, 014027.	5.2	9
46	Role of the Bay of Bengal warming in the Indian summer monsoon rainfall trend. Climate Dynamics, 2022, 59, 1733-1751.	3.8	9
47	A minimalistic seasonal prediction model for Indian monsoon based on spatial patterns of rainfall anomalies. Climate Dynamics, 2019, 52, 3661-3681.	3.8	8
48	Assessment of the interannual variability of local atmospheric and ITF contribution to the subsurface heat content of southern tropical Indian Ocean in GECCO2 and ORAS4 using ROMS. Global and Planetary Change, 2019, 181, 102974.	3.5	8
49	The Indian Ocean Deep Meridional Overturning Circulation in Three Ocean Reanalysis Products. Geophysical Research Letters, 2019, 46, 12146-12155.	4.0	8
50	El NiÃ±o Southern Oscillation, monsoon anomaly, and childhood diarrheal disease morbidity in Nepal. , 2022, 1, .		8
51	Oceanâ€“atmosphere processes associated with enhanced Indian monsoon break spells in CFSv2 forecasts. Climate Dynamics, 2018, 51, 2623-2636.	3.8	7
52	Short and Medium Range Irrigation Scheduling Using Stochastic Simulationâ€Optimization Framework With Farmâ€Scale Ecohydrological Model and Weather Forecasts. Water Resources Research, 2021, 57, e2020WR029004.	4.2	7
53	Tropical oceanic intraseasonal variabilities associated with central Indian Ocean mode. Climate Dynamics, 0, , 1.	3.8	7
54	Modulation of the Intraseasonal Chlorophyllâ€a Concentration in the Tropical Indian Ocean by the Central Indian Ocean Mode. Geophysical Research Letters, 2022, 49, .	4.0	7

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55	Global Population Exposed to Extreme Events in the 150 Most Populated Cities of the World: Implications for Public Health. International Journal of Environmental Research and Public Health, 2021, 18, 1293.	2.6	6
56	Simulation of the Central Indian Ocean Mode in CESM: Implications for the Indian Summer Monsoon System. Journal of Geophysical Research D: Atmospheres, 2018, 123, 58-72.	3.3	5
57	Interannualâ€toâ€Decadal Variations of Particulate Organic Carbon and the Contribution of Phytoplankton in the Tropical Pacific During 1981â€“2016: A Model Study. Journal of Geophysical Research: Oceans, 2021, 126, .	2.6	5
58	Pollutants control the process networks of urban environmental-meteorology. Environmental Research Letters, 2021, 16, 014021.	5.2	4
59	Barotropic energy conversion during Indian summer monsoon: implication of Central Indian Ocean Mode Simulation in CMIP6. Climate Dynamics, 2022, 58, 3187-3206.	3.8	4
60	Inconsistent Atmosphereâ€Ocean Dynamics and Multidecadal Zonal SST Gradient Trends Across the Equatorial Pacific Ocean in Reanalysis Products. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016297.	2.6	2
61	Internal Subseasonal Variability in the South China Sea Revealed by Eddyâ€Resolving Numerical Simulations. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015390.	2.6	2
62	A Comparative Study of Vertical Mixing Schemes in Modeling the Bay of Bengal Dynamics. Earth and Space Science, 2022, 9, .	2.6	2
63	Indian Summer Monsoon System: A Holistic Approach for Advancing Monsoon Understanding in a Warming World. Springer Transactions in Civil and Environmental Engineering, 2021, , 77-92.	0.4	1
64	Sensitivity of asymmetric oxygen minimum zones to mixing intensity and stoichiometry in the tropical Pacific using a basin-scale model (OGCM-DMEC V1.4). Geoscientific Model Development, 2022, 15, 1017-1035.	3.6	1