

Raghu G Murtugudde

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

3,538
citations

218677

26
h-index

144013

57
g-index

65
all docs

65
docs citations

65
times ranked

3556
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of the Bay of Bengal warming in the Indian summer monsoon rainfall trend. <i>Climate Dynamics</i> , 2022, 59, 1733-1751.	3.8	9
2	Barotropic energy conversion during Indian summer monsoon: implication of Central Indian Ocean Mode Simulation in CMIP6. <i>Climate Dynamics</i> , 2022, 58, 3187-3206.	3.8	4
3	Sensitivity of asymmetric oxygen minimum zones to mixing intensity and stoichiometry in the tropical Pacific using a basin-scale model (OGCM-DMEC V1.4). <i>Geoscientific Model Development</i> , 2022, 15, 1017-1035.	3.6	1
4	El Niño Southern Oscillation, monsoon anomaly, and childhood diarrheal disease morbidity in Nepal. , 2022, 1, .		8
5	Modulation of the Intraseasonal Chlorophyll <i>a</i> Concentration in the Tropical Indian Ocean by the Central Indian Ocean Mode. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	7
6	A Comparative Study of Vertical Mixing Schemes in Modeling the Bay of Bengal Dynamics. <i>Earth and Space Science</i> , 2022, 9, .	2.6	2
7	Role of extreme weather events and El Niño Southern Oscillation on incidence of Enteric Fever in Ahmedabad and Surat, Gujarat, India. <i>Environmental Research</i> , 2021, 196, 110417.	7.5	9
8	Interannual and Decadal Variations of Particulate Organic Carbon and the Contribution of Phytoplankton in the Tropical Pacific During 1981–2016: A Model Study. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, .	2.6	5
9	Indian Summer Monsoon System: A Holistic Approach for Advancing Monsoon Understanding in a Warming World. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2021, , 77-92.	0.4	1
10	Global Population Exposed to Extreme Events in the 150 Most Populated Cities of the World: Implications for Public Health. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 1293.	2.6	6
11	Short and Medium Range Irrigation Scheduling Using Stochastic Simulation–Optimization Framework With Farm-Scale Ecohydrological Model and Weather Forecasts. <i>Water Resources Research</i> , 2021, 57, e2020WR029004.	4.2	7
12	Feedback From Vegetation to Interannual Variations of Indian Summer Monsoon Rainfall. <i>Water Resources Research</i> , 2021, 57, e2020WR028750.	4.2	14
13	The Role of Vorticity Tilting in Northward-Propagating Monsoon Intraseasonal Oscillation. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093304.	4.0	15
14	Pollutants control the process networks of urban environmental-meteorology. <i>Environmental Research Letters</i> , 2021, 16, 014021.	5.2	4
15	Increased cyclone destruction potential in the Southern Indian Ocean. <i>Environmental Research Letters</i> , 2021, 16, 014027.	5.2	9
16	Progress in understanding of Indian Ocean circulation, variability, air–sea exchange, and impacts on biogeochemistry. <i>Ocean Science</i> , 2021, 17, 1677-1751.	3.4	43
17	A Potential Link Between the Southern Ocean Warming and the South Indian Ocean Heat Balance. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016132.	2.6	12
18	Inconsistent Atmosphere–Ocean Dynamics and Multidecadal Zonal SST Gradient Trends Across the Equatorial Pacific Ocean in Reanalysis Products. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016297.	2.6	2

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19	Simulation of Central Indian Ocean Mode in S2S Models. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033550.	3.3	10
20	Internal Subseasonal Variability in the South China Sea Revealed by Eddy-Resolving Numerical Simulations. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015390.	2.6	2
21	A minimalistic seasonal prediction model for Indian monsoon based on spatial patterns of rainfall anomalies. Climate Dynamics, 2019, 52, 3661-3681.	3.8	8
22	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
23	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
24	The Indian Ocean Deep Meridional Overturning Circulation in Three Ocean Reanalysis Products. Geophysical Research Letters, 2019, 46, 12146-12155.	4.0	8
25	Snowfall Variability Dictates Glacier Mass Balance Variability in Himalaya-Karakoram. Scientific Reports, 2019, 9, 18192.	3.3	60
26	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
27	Ocean-atmosphere processes associated with enhanced Indian monsoon break spells in CFSv2 forecasts. Climate Dynamics, 2018, 51, 2623-2636.	3.8	7
28	Moisture Supply From the Western Ghats Forests to Water Deficit East Coast of India. Geophysical Research Letters, 2018, 45, 4337-4344.	4.0	32
29	A Central Indian Ocean Mode and Heavy Precipitation during the Indian Summer Monsoon. Journal of Climate, 2017, 30, 2055-2067.	3.2	25
30	A threefold rise in widespread extreme rain events over central India. Nature Communications, 2017, 8, 708.	12.8	393
31	Role of Oceanic and Terrestrial Atmospheric Moisture Sources in Intraseasonal Variability of Indian Summer Monsoon Rainfall. Scientific Reports, 2017, 7, 12729.	3.3	56
32	Seasonal and Interannual Variabilities of the Central Indian Ocean Mode. Journal of Climate, 2017, 30, 6505-6520.	3.2	16
33	Extreme precipitation events and increased risk of campylobacteriosis in Maryland, U.S.A. Environmental Research, 2016, 149, 216-221.	7.5	37
34	Ocean-atmosphere processes driving Indian summer monsoon biases in CFSv2 hindcasts. Climate Dynamics, 2016, 47, 1417-1433.	3.8	24
35	Impacts of Intraseasonal SST Anomalies on Precipitation during Indian Summer Monsoon. Journal of Climate, 2015, 28, 4561-4575.	3.2	34
36	Drying of Indian subcontinent by rapid Indian Ocean warming and a weakening land-sea thermal gradient. Nature Communications, 2015, 6, 7423.	12.8	534

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37	Strong influence of westerly wind bursts on El Niño diversity. <i>Nature Geoscience</i> , 2015, 8, 339-345.	12.9	277
38	Seasonal to decadal variations of sea surface CO ₂ and sea-air CO ₂ flux in the equatorial oceans over 1984–2013: A basin-scale comparison of the Pacific and Atlantic Oceans. <i>Global Biogeochemical Cycles</i> , 2015, 29, 597-609.	4.9	26
39	Climate change, extreme events and increased risk of salmonellosis in Maryland, USA: Evidence for coastal vulnerability. <i>Environment International</i> , 2015, 83, 58-62.	10.0	90
40	Spatiotemporal characteristics of seasonal to multidecadal variability of pCO ₂ and air-sea CO ₂ fluxes in the equatorial Pacific Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 8987-9012.	2.6	27
41	Impact of Northward-Propagating Intraseasonal Variability on the Onset of Indian Summer Monsoon. <i>Journal of Climate</i> , 2014, 27, 126-139.	3.2	52
42	Influence of the Atlantic zonal mode on monsoon depressions in the Bay of Bengal during boreal summer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 6456-6469.	3.3	48
43	Modulation of monsoon intraseasonal oscillations in the recent warming period. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 5185-5203.	3.3	40
44	Modulation of tropical ocean surface chlorophyll by the Madden-Julian Oscillation. <i>Climate Dynamics</i> , 2013, 40, 39-58.	3.8	26
45	Phytoplankton carbon and chlorophyll distributions in the equatorial Pacific and Atlantic: A basin-scale comparative study. <i>Journal of Marine Systems</i> , 2013, 109-110, 138-148.	2.1	23
46	Kinetic Energy Budget for the Madden-Julian Oscillation in a Multiscale Framework. <i>Journal of Climate</i> , 2012, 25, 5386-5403.	3.2	24
47	Improved Madden-Julian Oscillations with Improved Physics: The Impact of Modified Convection Parameterizations. <i>Journal of Climate</i> , 2012, 25, 1116-1136.	3.2	46
48	Monsoon Regimes and Processes in CCSM4. Part I: The Asian-Australian Monsoon. <i>Journal of Climate</i> , 2012, 25, 2583-2608.	3.2	57
49	Tropical Indo-Pacific Ocean chlorophyll response to MJO forcing. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	10
50	The Madden-Julian Oscillation in CCSM4. <i>Journal of Climate</i> , 2011, 24, 6261-6282.	3.2	59
51	Global correlations between winds and ocean chlorophyll. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	81
52	Regulation of phytoplankton carbon to chlorophyll ratio by light, nutrients and temperature in the Equatorial Pacific Ocean: a basin-scale model. <i>Biogeosciences</i> , 2009, 6, 391-404.	3.3	78
53	Spatial and temporal variability of the phytoplankton carbon to chlorophyll ratio in the equatorial Pacific: A basin-scale modeling study. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	20
54	Role of ocean biology-induced climate feedback in the modulation of El Niño-Southern Oscillation. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	31

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55	Seasonal Influence of Indonesian Throughflow in the Southwestern Indian Ocean. <i>Journal of Physical Oceanography</i> , 2008, 38, 1529-1541.	1.7	38
56	Spatial and temporal variations in dissolved and particulate organic nitrogen in the equatorial Pacific: biological and physical influences. <i>Biogeosciences</i> , 2008, 5, 1705-1721.	3.3	30
57	Temperature Advection by Tropical Instability Waves. <i>Journal of Physical Oceanography</i> , 2006, 36, 592-605.	1.7	100
58	Internal Variability of Indian Ocean SST. <i>Journal of Climate</i> , 2005, 18, 3726-3738.	3.2	50
59	Internal variability of the tropical Pacific ocean. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	35
60	Effects of Penetrative Radiation on the Upper Tropical Ocean Circulation. <i>Journal of Climate</i> , 2002, 15, 470-486.	3.2	225
61	Biogeochemical modelling of the tropical Pacific Ocean. I: Seasonal and interannual variability. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 49, 509-543.	1.4	98
62	Oceanic processes associated with anomalous events in the Indian Ocean with relevance to 1997-1998. <i>Journal of Geophysical Research</i> , 2000, 105, 3295-3306.	3.3	495
63	Internal Variability of the Tropical Atlantic Ocean. <i>Geophysical Monograph Series</i> , 0, , 181-188.	0.1	11
64	Tropical oceanic intraseasonal variabilities associated with central Indian Ocean mode. <i>Climate Dynamics</i> , 0, , 1.	3.8	7