Mathew Roxy

List of Publications by Citations

41 papers	1,898 citations	19 h-index	43 g-index
55 ext. papers	2,522 ext. citations	6.2 avg, IF	5.22 L-index

#	Paper	IF	Citations
41	Drying of Indian subcontinent by rapid Indian Ocean warming and a weakening land-sea thermal gradient. *Nature Communications*, **2015**, 6, 7423	17.4	360
40	The Curious Case of Indian Ocean Warming*,+. *Journal of Climate*, **2014**, 27, 8501-8509	4.4	232
39	A threefold rise in widespread extreme rain events over central India. *Nature Communications*, **2017**, 8, 708	17.4	216
38	A reduction in marine primary productivity driven by rapid warming over the tropical Indian Ocean. *Geophysical Research Letters*, **2016**, 43, 826-833	4.9	164
37	Intraseasonal SST-precipitation relationship and its spatial variability over the tropical summer monsoon region. *Climate Dynamics*, **2013**, 41, 45-61	4.2	83
36	Role of SST over the Indian Ocean in Influencing the Intraseasonal Variability of the Indian Summer Monsoon. *Journal of the Meteorological Society of Japan*, **2007**, 85, 349-358	2.8	83
35	Role of ocean–atmosphere interaction on northward propagation of Indian summer monsoon intra-seasonal oscillations (MISO). *Climate Dynamics*, **2013**, 41, 1651-1669	4.2	77
34	Influence of sea surface temperature on the intraseasonal variability of the South China Sea summer monsoon. *Climate Dynamics*, **2012**, 39, 1209-1218	4.2	58
33	Sensitivity of precipitation to sea surface temperature over the tropical summer monsoon region and its quantification. *Climate Dynamics*, **2014**, 43, 1159-1169	4.2	57
32	Indian summer monsoon: Extreme events, historical changes, and role of anthropogenic forcings. *Wiley Interdisciplinary Reviews: Climate Change*, **2019**, 10, e571	8.4	52
31	Twofold expansion of the Indo-Pacific warm pool warps the MJO life cycle. *Nature*, **2019**, 575, 647-651	50.4	52
30	Monsoons Climate Change Assessment. *Bulletin of the American Meteorological Society*, **2021**, 102, E1-E19	9.1	40
29	Hydrography and water masses in the southeastern Arabian Sea during March–June 2003. *Journal of Earth System Science*, **2005**, 114, 475-491	1.8	37
28	Impacts of Indian and Atlantic oceans on ENSO in a comprehensive modeling framework. *Climate Dynamics*, **2016**, 46, 2507-2533	4.2	36
27	The IITM Earth System Model: Transformation of a Seasonal Prediction Model to a Long-Term Climate Model. *Bulletin of the American Meteorological Society*, **2015**, 96, 1351-1367	6.1	32
26	Seasonality in the relationship between El Nino and Indian Ocean dipole. *Climate Dynamics*, **2011**, 37, 221-236	4.2	32
25	A Sustained Ocean Observing System in the Indian Ocean for Climate Related Scientific Knowledge and Societal Needs. *Frontiers in Marine Science*, **2019**, 6,	4.5	26

24	Intraseasonal variability of terrestrial biospheric CO2 fluxes over India during summer monsoons.. *Journal of Geophysical Research G: Biogeosciences*, **2013**, 118, 752-769	3.7	23
23	Indian Ocean and Indian summer monsoon: relationships without ENSO in ocean□tmosphere coupled simulations. *Climate Dynamics*, **2017**, 49, 1429-1448	4.2	19
22	A Road Map to IndOOS-2: Better Observations of the Rapidly Warming Indian Ocean. *Bulletin of the American Meteorological Society*, **2020**, 101, E1891-E1913	6.1	19
21	Spatiotemporal characteristics of seasonal to multidecadal variability of pCO2 and air-sea CO2 fluxes in the equatorial Pacific Ocean. *Journal of Geophysical Research: Oceans*, **2014**, 119, 8987-9012	3.3	18
20	On the relationship between north India summer monsoon rainfall and east equatorial Indian Ocean warming. *Global and Planetary Change*, **2019**, 179, 23-32	4.2	16
19	Changing status of tropical cyclones over the north Indian Ocean. *Climate Dynamics*, **2021**, 57, 3545	4.2	16
18	Processes Associated with the Tropical Indian Ocean Subsurface Temperature Bias in a Coupled Model. *Journal of Physical Oceanography*, **2016**, 46, 2863-2875	2.4	15
17	Tropical Indian Ocean response to the decay phase of El Ni□ in a coupled model and associated changes in south and east-Asian summer monsoon circulation and rainfall. *Climate Dynamics*, **2016**, 47, 831-844	4.2	15
16	Coupled Land-Atmosphere Regional Model Reduces Dry Bias in Indian Summer Monsoon Rainfall Simulated by CFSv2. *Geophysical Research Letters*, **2018**, 45, 2476-2486	4.9	15
15	Indian Ocean Warming **2020**, 191-206		13
14	Variability and Trends of Sea Surface Temperature and Circulation in the Indian Ocean. *Springer Geology*, **2017**, 165-179	0.8	10
13	Executive Summary: IndOOS-2: A Roadmap to Sustained Observations of the Indian Ocean for 2020-2030 **2019**,		10
12	Exploring the long-term changes in the Madden Julian Oscillation using machine learning. *Scientific Reports*, **2020**, 10, 18567	4.9	9
11	Revisiting the Indian summer monsoon□ENSO links in the IPCC AR4 projections: A cautionary outlook. *Global and Planetary Change*, **2013**, 104, 51-60	4.2	8
10	Ocean Climate Observing Requirements in Support of Climate Research and Climate Information. *Frontiers in Marine Science*, **2019**, 6,	4.5	7
9	The Unusual Long Track and Rapid Intensification of Very Severe Cyclone Ockhi. *Current Science*, **2020**, 119, 771	2.2	7
8	Understanding the role of moisture transport on the dry bias in indian monsoon simulations by CFSv2. *Climate Dynamics*, **2019**, 52, 637-651	4.2	7
7	Assessment of 1 month forecasts of weak Indian monsoons based on the NCEP Climate Forecast System (CFS). *Meteorological Applications*, **2012**, 19, 189-199	2.1	5

6	Genesis and Trends in Marine Heatwaves Over the Tropical Indian Ocean and Their Interaction With the Indian Summer Monsoon. *Journal of Geophysical Research: Oceans*, **2022**, 127,	3.3	5
5	Role of warm ocean conditions and the MJO in the genesis and intensification of extremely severe cyclone Fani. *Scientific Reports*, **2021**, 11, 3607	4.9	5
4	A review of ocean-atmosphere interactions during tropical cyclones in the north Indian Ocean. *Earth-Science Reviews*, **2022**, 226, 103967	10.2	2
3	Interannual variability of the frequency of MJO phases and its association with two types of ENSO. *Scientific Reports*, **2021**, 11, 11541	4.9	1
2	Projected future changes in the contribution of Indo-Pacific sea surface height variability to the Indonesian throughflow. *Journal of Oceanography*,1	1.9	0
1	Simulation of interannual relationship between the Atlantic zonal mode and Indian summer monsoon in CFSv2. *Climate Dynamics*, **2021**, 57, 353-373	4.2	