

Mathew Roxy

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Genesis and Trends in Marine Heatwaves Over the Tropical Indian Ocean and Their Interaction With the Indian Summer Monsoon. <i>Journal of Geophysical Research: Oceans</i> , 2022 , 127,	3.3	5
40	A review of ocean-atmosphere interactions during tropical cyclones in the north Indian Ocean. <i>Earth-Science Reviews</i> , 2022 , 226, 103967	10.2	2
39	Simulation of interannual relationship between the Atlantic zonal mode and Indian summer monsoon in CFSv2. <i>Climate Dynamics</i> , 2021 , 57, 353-373	4.2	
38	Interannual variability of the frequency of MJO phases and its association with two types of ENSO. <i>Scientific Reports</i> , 2021 , 11, 11541	4.9	1
37	Changing status of tropical cyclones over the north Indian Ocean. <i>Climate Dynamics</i> , 2021 , 57, 3545	4.2	16
36	Monsoons Climate Change Assessment. <i>Bulletin of the American Meteorological Society</i> , 2021 , 102, E1-E10.1		40
35	Role of warm ocean conditions and the MJO in the genesis and intensification of extremely severe cyclone Fani. <i>Scientific Reports</i> , 2021 , 11, 3607	4.9	5
34	A Road Map to IndOOS-2: Better Observations of the Rapidly Warming Indian Ocean. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E1891-E1913	6.1	19
33	The Unusual Long Track and Rapid Intensification of Very Severe Cyclone Ockhi. <i>Current Science</i> , 2020 , 119, 771	2.2	7
32	Indian Ocean Warming 2020 , 191-206		13
31	Exploring the long-term changes in the Madden Julian Oscillation using machine learning. <i>Scientific Reports</i> , 2020 , 10, 18567	4.9	9
30	Ocean Climate Observing Requirements in Support of Climate Research and Climate Information. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	7
29	On the relationship between north India summer monsoon rainfall and east equatorial Indian Ocean warming. <i>Global and Planetary Change</i> , 2019 , 179, 23-32	4.2	16
28	Indian summer monsoon: Extreme events, historical changes, and role of anthropogenic forcings. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2019 , 10, e571	8.4	52
27	A Sustained Ocean Observing System in the Indian Ocean for Climate Related Scientific Knowledge and Societal Needs. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	26
26	Executive Summary: IndOOS-2: A Roadmap to Sustained Observations of the Indian Ocean for 2020-2030 2019 ,		10
25	Twofold expansion of the Indo-Pacific warm pool warps the MJO life cycle. <i>Nature</i> , 2019 , 575, 647-651	50.4	52

24	Understanding the role of moisture transport on the dry bias in indian monsoon simulations by CFSv2. <i>Climate Dynamics</i> , 2019 , 52, 637-651	4.2	7
23	Coupled Land-Atmosphere Regional Model Reduces Dry Bias in Indian Summer Monsoon Rainfall Simulated by CFSv2. <i>Geophysical Research Letters</i> , 2018 , 45, 2476-2486	4.9	15
22	A threefold rise in widespread extreme rain events over central India. <i>Nature Communications</i> , 2017 , 8, 708	17.4	216
21	Indian Ocean and Indian summer monsoon: relationships without ENSO in ocean-atmosphere coupled simulations. <i>Climate Dynamics</i> , 2017 , 49, 1429-1448	4.2	19
20	Variability and Trends of Sea Surface Temperature and Circulation in the Indian Ocean. <i>Springer Geology</i> , 2017 , 165-179	0.8	10
19	Processes Associated with the Tropical Indian Ocean Subsurface Temperature Bias in a Coupled Model. <i>Journal of Physical Oceanography</i> , 2016 , 46, 2863-2875	2.4	15
18	A reduction in marine primary productivity driven by rapid warming over the tropical Indian Ocean. <i>Geophysical Research Letters</i> , 2016 , 43, 826-833	4.9	164
17	Tropical Indian Ocean response to the decay phase of El Niño in a coupled model and associated changes in south and east-Asian summer monsoon circulation and rainfall. <i>Climate Dynamics</i> , 2016 , 47, 831-844	4.2	15
16	Impacts of Indian and Atlantic oceans on ENSO in a comprehensive modeling framework. <i>Climate Dynamics</i> , 2016 , 46, 2507-2533	4.2	36
15	Drying of Indian subcontinent by rapid Indian Ocean warming and a weakening land-sea thermal gradient. <i>Nature Communications</i> , 2015 , 6, 7423	17.4	360
14	The IITM Earth System Model: Transformation of a Seasonal Prediction Model to a Long-Term Climate Model. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, 1351-1367	6.1	32
13	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	3.3	18
12	The Curious Case of Indian Ocean Warming*,+. <i>Journal of Climate</i> , 2014 , 27, 8501-8509	4.4	232
11	Sensitivity of precipitation to sea surface temperature over the tropical summer monsoon region and its quantification. <i>Climate Dynamics</i> , 2014 , 43, 1159-1169	4.2	57
10	Role of ocean-atmosphere interaction on northward propagation of Indian summer monsoon intra-seasonal oscillations (MISO). <i>Climate Dynamics</i> , 2013 , 41, 1651-1669	4.2	77
9	Revisiting the Indian summer monsoon-ENSO links in the IPCC AR4 projections: A cautionary outlook. <i>Global and Planetary Change</i> , 2013 , 104, 51-60	4.2	8
8	Intraseasonal SST-precipitation relationship and its spatial variability over the tropical summer monsoon region. <i>Climate Dynamics</i> , 2013 , 41, 45-61	4.2	83
7	Intraseasonal variability of terrestrial biospheric CO ₂ fluxes over India during summer monsoons.. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 752-769	3.7	23

6	Influence of sea surface temperature on the intraseasonal variability of the South China Sea summer monsoon. <i>Climate Dynamics</i> , 2012 , 39, 1209-1218	4.2	58
5	Assessment of 1 month forecasts of weak Indian monsoons based on the NCEP Climate Forecast System (CFS). <i>Meteorological Applications</i> , 2012 , 19, 189-199	2.1	5
4	Seasonality in the relationship between El Nino and Indian Ocean dipole. <i>Climate Dynamics</i> , 2011 , 37, 221-236	4.2	32
3	Role of SST over the Indian Ocean in Influencing the Intraseasonal Variability of the Indian Summer Monsoon. <i>Journal of the Meteorological Society of Japan</i> , 2007 , 85, 349-358	2.8	83
2	Hydrography and water masses in the southeastern Arabian Sea during March-June 2003. <i>Journal of Earth System Science</i> , 2005 , 114, 475-491	1.8	37
1	Projected future changes in the contribution of Indo-Pacific sea surface height variability to the Indonesian throughflow. <i>Journal of Oceanography</i> , 1	1.9	0