

Weiqing Han

List of Publications by Year in descending order

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70
papers

3,541
citations

109321

35
h-index

144013

57
g-index

70
all docs

70
docs citations

70
times ranked

2594
citing authors

#	ARTICLE	IF	CITATIONS
1	Indian Ocean Decadal Variability: A Review. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, 1679-1703.	3.3	210
2	Patterns of Indian Ocean sea-level change in a warming climate. <i>Nature Geoscience</i> , 2010, 3, 546-550.	12.9	203
3	Modeling salinity distributions in the Indian Ocean. <i>Journal of Geophysical Research</i> , 2001, 106, 859-877.	3.3	182
4	Intensification of decadal and multi-decadal sea level variability in the western tropical Pacific during recent decades. <i>Climate Dynamics</i> , 2014, 43, 1357-1379.	3.8	173
5	Dynamics of the Eastern Surface Jets in the Equatorial Indian Ocean*. <i>Journal of Physical Oceanography</i> , 1999, 29, 2191-2209.	1.7	172
6	Origins and Dynamics of the 90-Day and 30-60-Day Variations in the Equatorial Indian Ocean. <i>Journal of Physical Oceanography</i> , 2005, 35, 708-728.	1.7	128
7	Influence of precipitation minus evaporation and Bay of Bengal rivers on dynamics, thermodynamics, and mixed layer physics in the upper Indian Ocean. <i>Journal of Geophysical Research</i> , 2001, 106, 6895-6916.	3.3	122
8	Forcing Mechanisms of Sea Level Interannual Variability in the Bay of Bengal. <i>Journal of Physical Oceanography</i> , 2002, 32, 216-239.	1.7	105
9	Dynamical response of equatorial Indian Ocean to intraseasonal winds: Zonal Flow. <i>Geophysical Research Letters</i> , 2001, 28, 4215-4218.	4.0	94
10	Interannual Variability of Equatorial Eastern Indian Ocean Upwelling: Local versus Remote Forcing. <i>Journal of Physical Oceanography</i> , 2016, 46, 789-807.	1.7	94
11	Seasonal-to-Interannual Time-Scale Dynamics of the Equatorial Undercurrent in the Indian Ocean. <i>Journal of Physical Oceanography</i> , 2015, 45, 1532-1553.	1.7	91
12	Effect of the potential melting of the Greenland Ice Sheet on the Meridional Overturning Circulation and global climate in the future. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 1914-1926.	1.4	88
13	Initialized Earth System prediction from subseasonal to decadal timescales. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 340-357.	29.7	85
14	Enhanced Decadal Warming of the Southeast Indian Ocean During the Recent Global Surface Warming Slowdown. <i>Geophysical Research Letters</i> , 2017, 44, 9876-9884.	4.0	79
15	Basin Resonances in the Equatorial Indian Ocean. <i>Journal of Physical Oceanography</i> , 2011, 41, 1252-1270.	1.7	71
16	Spatial Patterns of Sea Level Variability Associated with Natural Internal Climate Modes. <i>Surveys in Geophysics</i> , 2017, 38, 217-250.	4.6	71
17	Intraseasonal-to-Interannual Variability of South Indian Ocean Sea Level and Thermocline: Remote versus Local Forcing. <i>Journal of Physical Oceanography</i> , 2012, 42, 602-627.	1.7	69
18	Roles of Equatorial Waves and Western Boundary Reflection in the Seasonal Circulation of the Equatorial Indian Ocean. <i>Journal of Physical Oceanography</i> , 2006, 36, 930-944.	1.7	67

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19	Local and remote forcing of decadal sea level and thermocline depth variability in the South Indian Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 381-398.	2.6	64
20	Effects of the diurnal cycle in solar radiation on the tropical Indian Ocean mixed layer variability during wintertime Madden-Julian Oscillations. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 4945-4964.	2.6	60
21	Bay of Bengal salinity stratification and Indian summer monsoon intraseasonal oscillation: 2. Impact on SST and convection. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 4312-4328.	2.6	60
22	Impact of Atmospheric Intraseasonal Variability in the Indian Ocean: Low-Frequency Rectification in Equatorial Surface Current and Transport. <i>Journal of Physical Oceanography</i> , 2004, 34, 1350-1372.	1.7	56
23	Influence of the Indian Ocean Dipole on Atmospheric Subseasonal Variability. <i>Journal of Climate</i> , 2005, 18, 3891-3909.	3.2	56
24	Intraseasonal sea surface salinity variability in the equatorial Indian Ocean induced by Madden-Julian oscillations. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 2233-2258.	2.6	54
25	Decadal Sea Level Variations in the Indian Ocean Investigated with HYCOM: Roles of Climate Modes, Ocean Internal Variability, and Stochastic Wind Forcing*. <i>Journal of Climate</i> , 2015, 28, 9143-9165.	3.2	54
26	Indian Ocean intraseasonal sea surface temperature variability during boreal summer: Madden-Julian Oscillation versus submonthly forcing and processes. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	53
27	Multidecadal Changes of the Upper Indian Ocean Heat Content during 1965–2016. <i>Journal of Climate</i> , 2018, 31, 7863-7884.	3.2	53
28	Bay of Bengal salinity stratification and Indian summer monsoon intraseasonal oscillation: 1. Intraseasonal variability and causes. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 4291-4311.	2.6	52
29	Towards Comprehensive Observing and Modeling Systems for Monitoring and Predicting Regional to Coastal Sea Level. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	51
30	Impacts of Basin-Scale Climate Modes on Coastal Sea Level: a Review. <i>Surveys in Geophysics</i> , 2019, 40, 1493-1541.	4.6	50
31	Intraseasonal variability of Indian Ocean sea surface temperature during boreal winter: Madden-Julian Oscillation versus submonthly forcing and processes. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	42
32	Mechanisms for Generation and Development of the Ningaloo Niño. <i>Journal of Climate</i> , 2018, 31, 9239-9259.	3.2	40
33	The role of Equatorial Undercurrent in sustaining the Eastern Indian Ocean upwelling. <i>Geophysical Research Letters</i> , 2016, 43, 6444-6451.	4.0	38
34	Large-Scale Oceanic Variability Associated with the Madden-Julian Oscillation during the CINDY/DYNAMO Field Campaign from Satellite Observations. <i>Remote Sensing</i> , 2013, 5, 2072-2092.	4.0	37
35	Unraveling Causes for the Changing Behavior of the Tropical Indian Ocean in the Past Few Decades. <i>Journal of Climate</i> , 2018, 31, 2377-2388.	3.2	37
36	Revisiting the Wintertime Intraseasonal SST Variability in the Tropical South Indian Ocean: Impact of the Ocean Interannual Variation*. <i>Journal of Physical Oceanography</i> , 2014, 44, 1886-1907.	1.7	36

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37	Intraseasonal Variability of SST and Precipitation in the Arabian Sea during the Indian Summer Monsoon: Impact of Ocean Mixed Layer Depth. <i>Journal of Climate</i> , 2016, 29, 7889-7910.	3.2	35
38	Multi-Decadal Trend and Decadal Variability of the Regional Sea Level over the Indian Ocean since the 1960s: Roles of Climate Modes and External Forcing. <i>Climate</i> , 2018, 6, 51.	2.8	34
39	Decadal Variability of the Indian and Pacific Walker Cells since the 1960s: Do They Covary on Decadal Time Scales?. <i>Journal of Climate</i> , 2017, 30, 8447-8468.	3.2	33
40	Causes for the reversal of North Indian Ocean decadal sea level trend in recent two decades. <i>Climate Dynamics</i> , 2017, 49, 3887-3904.	3.8	32
41	Impact of Ningaloo Ni±o on Tropical Pacific and an Interbasin Coupling Mechanism. <i>Geophysical Research Letters</i> , 2018, 45, 11,300.	4.0	31
42	Impact of atmospheric submonthly oscillations on sea surface temperature of the tropical Indian Ocean. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	30
43	Decadal Shift of NAO-Linked Interannual Sea Level Variability along the U.S. Northeast Coast. <i>Journal of Climate</i> , 2018, 31, 4981-4989.	3.2	28
44	Variability of Sea Level and Upper-Ocean Heat Content in the Indian Ocean: Effects of Subtropical Indian Ocean Dipole and ENSO. <i>Journal of Climate</i> , 2019, 32, 7227-7245.	3.2	25
45	Upper-Ocean Response to the Super Tropical Cyclone Phailin (2013) over the Freshwater Region of the Bay of Bengal. <i>Journal of Physical Oceanography</i> , 2019, 49, 1201-1228.	1.7	25
46	The Indian Summer Monsoon Intraseasonal Oscillations in CFSv2 Forecasts: Biases and Importance of Improving Air±Sea Interaction Processes. <i>Journal of Climate</i> , 2018, 31, 5351-5370.	3.2	24
47	Role of North Indian Ocean Air±Sea Interaction in Summer Monsoon Intraseasonal Oscillation. <i>Journal of Climate</i> , 2018, 31, 7885-7908.	3.2	24
48	Intraseasonal Variability of the Equatorial Undercurrent in the Indian Ocean. <i>Journal of Physical Oceanography</i> , 2019, 49, 85-101.	1.7	24
49	Decadal SST Variability in the Southeast Indian Ocean and Its Impact on Regional Climate. <i>Journal of Climate</i> , 2019, 32, 6299-6318.	3.2	20
50	Anatomy of Salinity Anomalies Associated With the Positive Indian Ocean Dipole. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 8116-8139.	2.6	20
51	Effects of Climate Modes on Interannual Variability of Upwelling in the Tropical Indian Ocean. <i>Journal of Climate</i> , 2020, 33, 1547-1573.	3.2	16
52	Climate Model Uncertainty and Trend Detection in Regional Sea Level Projections: A Review. <i>Surveys in Geophysics</i> , 2019, 40, 1631-1653.	4.6	13
53	The Extreme El Ni±o Events Suppressing the Intraseasonal Variability in the Eastern Tropical Indian Ocean. <i>Journal of Physical Oceanography</i> , 2020, 50, 2359-2372.	1.7	13
54	Causes for intraseasonal sea surface salinity variability in the western tropical Pacific Ocean and its seasonality. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 85-103.	2.6	12

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55	Vertical Structure of the Upper Indian Ocean Thermal Variability. <i>Journal of Climate</i> , 2020, 33, 7233-7253.	3.2	12
56	Inter-basin and Multi-time Scale Interactions in generating the 2019 Extreme Indian Ocean Dipole. <i>Journal of Climate</i> , 2021, , 1-39.	3.2	10
57	Interannual to Decadal Variability of Tropical Indian Ocean Sea Surface Temperature: Pacific Influence versus Local Internal Variability. <i>Journal of Climate</i> , 2021, 34, 2669-2684.	3.2	10
58	Influence of atmospheric intraseasonal oscillations on seasonal and interannual variability in the upper Indian Ocean. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	8
59	Experimental Assessments on Impacts of Salinity Anomalies on the Positive Indian Ocean Dipole. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 9462-9486.	2.6	8
60	Rapid Sea-Level Rise in the Southern-Hemisphere Subtropical Oceans. <i>Journal of Climate</i> , 2021, , 1-55.	3.2	8
61	The Ningaloo Niño/Niña: Mechanisms, relation with other climate modes and impacts. , 2021, , 207-219.		8
62	Barrier for the Eastward Propagation of Madden-Julian Oscillation Over the Maritime Continent: A Possible New Mechanism. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090211.	4.0	7
63	The Role of Oceanic Processes in the Initiation of Indian Summer Monsoon Intraseasonal Oscillations Over the Indian Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 3685-3704.	2.6	6
64	Influence of atmospheric rivers on the Leeuwin Current system. <i>Climate Dynamics</i> , 2020, 54, 4263-4277.	3.8	6
65	20th Century Multivariate Indian Ocean Regional Sea Level Reconstruction. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016270.	2.6	6
66	The Role of Oceanic Processes in the Initiation of Boreal Winter Intraseasonal Oscillations Over the Indian Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015426.	2.6	5
67	Improving the prediction of western North Pacific summer precipitation using a Bayesian dynamic linear model. <i>Climate Dynamics</i> , 2020, 55, 831-842.	3.8	4
68	Eastward Shift of Interannual Climate Variability in the South Indian Ocean since 1950. <i>Journal of Climate</i> , 2021, , 1-46.	3.2	4
69	The Deep Penetrating South Equatorial Undercurrent in the Tropical South Indian Ocean. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	3
70	Diverse impacts of Indian Ocean Dipole on El Niño-Southern Oscillation. <i>Journal of Climate</i> , 2021, , 1-46.	3.2	0