

P N Vinayachandran

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

10,083
citations

101543

36
h-index

69250

77
g-index

85
all docs

85
docs citations

85
times ranked

5986
citing authors

#	ARTICLE	IF	CITATIONS
1	A dipole mode in the tropical Indian Ocean. <i>Nature</i> , 1999, 401, 360-363.	27.8	3,946
2	Title is missing!. <i>Nature</i> , 1999, 401, 360-363.	27.8	1,290
3	The monsoon currents in the north Indian Ocean. <i>Progress in Oceanography</i> , 2002, 52, 63-120.	3.2	602
4	Extremes of the Indian summer monsoon rainfall, ENSO and equatorial Indian Ocean oscillation. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	378
5	Hydrography and circulation in the western Bay of Bengal during the northeast monsoon. <i>Journal of Geophysical Research</i> , 1996, 101, 14011-14025.	3.3	355
6	Observations of barrier layer formation in the Bay of Bengal during summer monsoon. <i>Journal of Geophysical Research</i> , 2002, 107, SRF 19-1-SRF 19-9.	3.3	271
7	BOBMEX: The Bay of Bengal Monsoon Experiment. <i>Bulletin of the American Meteorological Society</i> , 2001, 82, 2217-2243.	3.3	193
8	Response of the equatorial Indian Ocean to an unusual wind event during 1994. <i>Geophysical Research Letters</i> , 1999, 26, 1613-1616.	4.0	167
9	Intrusion of the Southwest Monsoon Current into the Bay of Bengal. <i>Journal of Geophysical Research</i> , 1999, 104, 11077-11085.	3.3	167
10	Monsoon Response of the Sea around Sri Lanka: Generation of Thermal Domes and Anticyclonic Vortices. <i>Journal of Physical Oceanography</i> , 1998, 28, 1946-1960.	1.7	165
11	Phytoplankton bloom in the Bay of Bengal during the northeast monsoon and its intensification by cyclones. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	159
12	Indian Ocean dipole mode events in an ocean general circulation model. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002, 49, 1573-1596.	1.4	146
13	On the roles of the northeast cold surge, the Borneo vortex, the Madden-Julian Oscillation, and the Indian Ocean Dipole during the extreme 2006/2007 flood in southern Peninsular Malaysia. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	132
14	Biological response of the sea around Sri Lanka to summer monsoon. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	127
15	A summer monsoon pump to keep the Bay of Bengal salty. <i>Geophysical Research Letters</i> , 2013, 40, 1777-1782.	4.0	101
16	Indian Ocean response to anomalous conditions in 2006. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	97
17	Dynamics of Andaman Sea circulation and its role in connecting the equatorial Indian Ocean to the Bay of Bengal. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 3200-3218.	2.6	79
18	Mechanisms of formation of the Arabian Sea mini warm pool in a high-resolution Ocean General Circulation Model. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	73

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19	An OGCM study of the impact of rain and river water forcing on the Bay of Bengal. Journal of Geophysical Research: Oceans, 2016, 121, 2425-2446.	2.6	69
20	Indian Ocean sea surface salinity variations in a coupled model. Climate Dynamics, 2009, 33, 245-263.	3.8	68
21	Signatures of Indian Ocean Dipole and El Niño Southern Oscillation events in sea level variations in the Bay of Bengal. Journal of Geophysical Research, 2012, 117, .	3.3	67
22	Phytoplankton size structure in the southern Bay of Bengal modified by the Summer Monsoon Current and associated eddies: Implications on the vertical biogenic flux. Journal of Marine Systems, 2015, 143, 98-119.	2.1	66
23	Hydrographic observations and model simulation of the Bay of Bengal freshwater plume. Deep-Sea Research Part I: Oceanographic Research Papers, 2007, 54, 471-486.	1.4	62
24	The warm pool in the Indian Ocean. Journal of Earth System Science, 1991, 100, 165-175.	1.3	62
25	Biophysical processes in the Indian Ocean. Geophysical Monograph Series, 2009, , 9-32.	0.1	60
26	The Dynamics of the Southwest Monsoon Current in 2016 from High-Resolution In Situ Observations and Models. Journal of Physical Oceanography, 2018, 48, 2259-2282.	1.7	55
27	Inhibition of mixed-layer deepening during winter in the northeastern Arabian Sea by the West India Coastal Current. Climate Dynamics, 2016, 47, 1049-1072.	3.8	49
28	Bifurcation of the East India Coastal Current east of Sri Lanka. Geophysical Research Letters, 2005, 32, .	4.0	46
29	Formation mechanisms of temperature inversions in the southeastern Arabian Sea. Geophysical Research Letters, 2006, 33, .	4.0	46
30	BoBBLE: Ocean-Atmosphere Interaction and Its Impact on the South Asian Monsoon. Bulletin of the American Meteorological Society, 2018, 99, 1569-1587.	3.3	45
31	Hydrography of the eastern Arabian Sea during summer monsoon 2002. Journal of Earth System Science, 2005, 114, 459-474.	1.3	44
32	Westward movement of eddies into the Gulf of Aden from the Arabian Sea. Journal of Geophysical Research, 2007, 112, .	3.3	41
33	Yanai waves in the western equatorial Indian Ocean. Journal of Geophysical Research: Oceans, 2013, 118, 1556-1570.	2.6	41
34	A numerical investigation of the phytoplankton bloom in the Bay of Bengal during Northeast Monsoon. Journal of Geophysical Research, 2005, 110, .	3.3	39
35	Mechanisms of South Indian Ocean intraseasonal cooling. Geophysical Research Letters, 2008, 35, .	4.0	39
36	Mechanisms of summer intraseasonal sea surface temperature oscillations in the Bay of Bengal. Journal of Geophysical Research, 2012, 117, .	3.3	38

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37	Closing the sea surface mixed layer temperature budget from in situ observations alone: Operation Advection during BoBBLE. <i>Scientific Reports</i> , 2020, 10, 7062.	3.3	38
38	Impact of physical processes on chlorophyll distribution in the Bay of Bengal. <i>Geophysical Monograph Series</i> , 2009, , 71-86.	0.1	37
39	Consequences of inhibition of mixed layer deepening by the West India Coastal Current for winter phytoplankton bloom in the northeastern Arabian Sea. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 6583-6603.	2.6	33
40	Mechanisms of Barrier Layer Formation and Erosion from In Situ Observations in the Bay of Bengal. <i>Journal of Physical Oceanography</i> , 2019, 49, 1183-1200.	1.7	33
41	Long-term impact of Amazon river runoff on northern hemispheric climate. <i>Scientific Reports</i> , 2017, 7, 10989.	3.3	31
42	Evidence for the existence of Persian Gulf Water and Red Sea Water in the Bay of Bengal. <i>Climate Dynamics</i> , 2017, 48, 3207-3226.	3.8	30
43	Unprecedented Surface Chlorophyll Blooms in the Southeastern Arabian Sea During an Extreme Negative Indian Ocean Dipole. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085026.	4.0	30
44	Triggering of the positive Indian Ocean dipole events by severe cyclones over the Bay of Bengal. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2007, 59, 461-475.	1.7	29
45	Impact of river runoff into the ocean on Indian summer monsoon. <i>Environmental Research Letters</i> , 2015, 10, 054008.	5.2	29
46	Influence of Rainfall Over Eastern Arabian Sea on Its Salinity. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 5003-5020.	2.6	28
47	Summer cooling of the Arabian Sea during contrasting monsoons. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	26
48	Response of phytoplankton to heavy cloud cover and turbidity in the northern Bay of Bengal. <i>Scientific Reports</i> , 2018, 8, 11282.	3.3	26
49	Shift of peak in summer monsoon rainfall over Korea and its association with El Niño Southern Oscillation. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	25
50	Formation of summer phytoplankton bloom in the northwestern Bay of Bengal in a coupled physical-ecosystem model. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 8535-8550.	2.6	25
51	Numerical simulation of the observed near-surface East India Coastal Current on the continental slope. <i>Climate Dynamics</i> , 2018, 50, 3949-3980.	3.8	24
52	The Railroad Switch Effect of Seasonally Reversing Currents on the Bay of Bengal High Salinity Core. <i>Geophysical Research Letters</i> , 2019, 46, 6005-6014.	4.0	24
53	High-Resolution Operational Ocean Forecast and Reanalysis System for the Indian Ocean. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1340-E1356.	3.3	23
54	Particulate polyphosphate and alkaline phosphatase activity across a latitudinal transect in the tropical Indian Ocean. <i>Limnology and Oceanography</i> , 2018, 63, 1395-1406.	3.1	19

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55	Formation of the southern Bay of Bengal cold pool. <i>Climate Dynamics</i> , 2016, 47, 2009-2023.	3.8	18
56	Intraseasonal Variability of Air–Sea Fluxes over the Bay of Bengal during the Southwest Monsoon. <i>Journal of Climate</i> , 2018, 31, 7087-7109.	3.2	17
57	Effect of freshwater advection and winds on the vertical structure of chlorophyll in the northern Bay of Bengal. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2020, 179, 104622.	1.4	15
58	Impact of diurnal forcing on intraseasonal sea surface temperature oscillations in the Bay of Bengal. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 8221-8241.	2.6	14
59	Injection of Oxygenated Persian Gulf Water Into the Southern Bay of Bengal. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087773.	4.0	14
60	Dynamics of summer monsoon current around Sri Lanka. <i>Ocean Dynamics</i> , 2019, 69, 1133-1154.	2.2	13
61	Modulation of chlorophyll concentration by downwelling Rossby waves during the winter monsoon in the southeastern Arabian Sea. <i>Progress in Oceanography</i> , 2020, 186, 102365.	3.2	13
62	Understanding Iodine Chemistry Over the Northern and Equatorial Indian Ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 8104-8118.	3.3	11
63	The role of Amazon river runoff on the multidecadal variability of the Atlantic ITCZ. <i>Environmental Research Letters</i> , 2020, 15, 054013.	5.2	10
64	Maintenance of the southern Bay of Bengal cold pool. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2020, 179, 104624.	1.4	9
65	Comment on “Indian Ocean: Validation of the Miami Isopycnic Coordinate Ocean Model and ENSO events during 1958–1998” by V. E. Haugen et al.. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	8
66	Processes governing the seasonality of vertical chlorophyll-a distribution in the central Arabian Sea: Bio-Argo observations and ecosystem model simulation. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2021, 183, 104926.	1.4	8
67	Southern Bay of Bengal: A possible hotspot for CO2 emission during the summer monsoon. <i>Progress in Oceanography</i> , 2021, 197, 102638.	3.2	5
68	Variability in the Concentration of Lithium in the Indo-Pacific Ocean. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	4.9	5
69	Latent and sensible heat fluxes under active and weak phases of the summer monsoon of 1986. <i>Journal of Earth System Science</i> , 1989, 98, 213-222.	1.3	3
70	Water vapour flux divergence over the Arabian Sea during 1987 summer monsoon using satellite data. <i>Boundary-Layer Meteorology</i> , 1990, 51, 199-209.	2.3	3
71	Interannual variation of the Indian summer monsoon, ENSO, IOD, and EQUINOO. , 2021, , 29-48.		3
72	Role of ocean dynamics in the evolution of mixed-layer temperature in the Bay of Bengal during the summer monsoon. <i>Ocean Modelling</i> , 2021, 168, 101895.	2.4	3

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73	Asynchronous and synchronous models of executions on Intel® Xeon Phi™ coprocessor systems for high performance of long wave radiation calculations in atmosphere models. <i>Journal of Parallel and Distributed Computing</i> , 2017, 102, 199-212.	4.1	2
74	Wind forcing of the Ganga-Brahmaputra river plume. <i>Ocean Dynamics</i> , 2021, 71, 125-156.	2.2	2
75	Data-driven feature-oriented modeling of Southwest Monsoon Current. <i>Ocean Modelling</i> , 2021, , 101912.	2.4	2
76	Radiant heating rate associated with chlorophyll dynamics in upper ocean of Southern Bay of Bengal: A case study during Bay of Bengal Boundary Layer Experiment. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2022, 196, 105026.	1.4	2
77	On the weakening of northward propagation of intraseasonal oscillations during positive Indian Ocean Dipole events. <i>Climate Dynamics</i> , 2022, 59, 915-938.	3.8	2
78	Connectivity networks and delineation of disconnected coastal provinces along the Indian coastline using large-scale Lagrangian transport simulations. <i>Limnology and Oceanography</i> , 0, , .	3.1	2
79	The Irrawaddy River Jet in the Andaman Sea During the Summer Monsoon. <i>Frontiers in Marine Science</i> , 0, 9, .	2.5	2
80	A dipole mode in the tropical Indian Ocean. , 0, .		1
81	Front and skeleton features based methods for tracking salinity propagation in the ocean. <i>Computers and Geosciences</i> , 2022, 159, 104993.	4.2	1
82	Fate and impact of Bay of Bengal rivers in an intermediate resolution ocean model. , 2022, , .		0