

P N Vinayachandran

List of Publications by Year in descending order

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82
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101543

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85
docs citations

85
times ranked

5986
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Front and skeleton features based methods for tracking salinity propagation in the ocean. Computers and Geosciences, 2022, 159, 104993. | 4.2 | 1 |
| 2 | 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. Deep-Sea Research Part II: Topical Studies in Oceanography, 2022, 196, 105026. | 1.4 | 2 |
| 3 | On the weakening of northward propagation of intraseasonal oscillations during positive Indian Ocean Dipole events. Climate Dynamics, 2022, 59, 915-938. | 3.8 | 2 |
| 4 | Fate and impact of Bay of Bengal rivers in an intermediate resolution ocean model. , 2022, , . | | 0 |
| 5 | Variability in the Concentration of Lithium in the Indo-Pacific Ocean. Global Biogeochemical Cycles, 2022, 36, . | 4.9 | 5 |
| 6 | Wind forcing of the Ganga-Brahmaputra river plume. Ocean Dynamics, 2021, 71, 125-156. | 2.2 | 2 |
| 7 | Processes governing the seasonality of vertical chlorophyll-a distribution in the central Arabian Sea: Bio-Argo observations and ecosystem model simulation. Deep-Sea Research Part II: Topical Studies in Oceanography, 2021, 183, 104926. | 1.4 | 8 |
| 8 | Southern Bay of Bengal: A possible hotspot for CO2 emission during the summer monsoon. Progress in Oceanography, 2021, 197, 102638. | 3.2 | 5 |
| 9 | Interannual variation of the Indian summer monsoon, ENSO, IOD, and EQUINOO. , 2021, , 29-48. | | 3 |
| 10 | Data-driven feature-oriented modeling of Southwest Monsoon Current. Ocean Modelling, 2021, , 101912. | 2.4 | 2 |
| 11 | Role of ocean dynamics in the evolution of mixed-layer temperature in the Bay of Bengal during the summer monsoon. Ocean Modelling, 2021, 168, 101895. | 2.4 | 3 |
| 12 | Effect of freshwater advection and winds on the vertical structure of chlorophyll in the northern Bay of Bengal. Deep-Sea Research Part II: Topical Studies in Oceanography, 2020, 179, 104622. | 1.4 | 15 |
| 13 | Maintenance of the southern Bay of Bengal cold pool. Deep-Sea Research Part II: Topical Studies in Oceanography, 2020, 179, 104624. | 1.4 | 9 |
| 14 | Closing the sea surface mixed layer temperature budget from in situ observations alone: Operation Advection during BoBBLE. Scientific Reports, 2020, 10, 7062. | 3.3 | 38 |
| 15 | High-Resolution Operational Ocean Forecast and Reanalysis System for the Indian Ocean. Bulletin of the American Meteorological Society, 2020, 101, E1340-E1356. | 3.3 | 23 |
| 16 | Unprecedented Surface Chlorophyll Blooms in the Southeastern Arabian Sea During an Extreme Negative Indian Ocean Dipole. Geophysical Research Letters, 2020, 47, e2019GL085026. | 4.0 | 30 |
| 17 | Modulation of chlorophyll concentration by downwelling Rossby waves during the winter monsoon in the southeastern Arabian Sea. Progress in Oceanography, 2020, 186, 102365. | 3.2 | 13 |
| 18 | Injection of Oxygenated Persian Gulf Water Into the Southern Bay of Bengal. Geophysical Research Letters, 2020, 47, e2020GL087773. | 4.0 | 14 |

| # | ARTICLE | IF | CITATIONS |
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| 19 | 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 |
| 20 | Dynamics of summer monsoon current around Sri Lanka. <i>Ocean Dynamics</i> , 2019, 69, 1133-1154. | 2.2 | 13 |
| 21 | Influence of Rainfall Over Eastern Arabian Sea on Its Salinity. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 5003-5020. | 2.6 | 28 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | BoBBLE: Ocean–Atmosphere Interaction and Its Impact on the South Asian Monsoon. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 1569-1587. | 3.3 | 45 |
| 28 | 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 |
| 29 | The Dynamics of the Southwest Monsoon Current in 2016 from High-Resolution In Situ Observations and Models. <i>Journal of Physical Oceanography</i> , 2018, 48, 2259-2282. | 1.7 | 55 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | Long-term impact of Amazon river runoff on northern hemispheric climate. <i>Scientific Reports</i> , 2017, 7, 10989. | 3.3 | 31 |
| 34 | 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 |
| 35 | An OGCM study of the impact of rain and river water forcing on the Bay of Bengal. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 2425-2446. | 2.6 | 69 |
| 36 | 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 |

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|----|---|-----|-----------|
| 37 | Formation of the southern Bay of Bengal cold pool. <i>Climate Dynamics</i> , 2016, 47, 2009-2023. | 3.8 | 18 |
| 38 | 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 |
| 39 | Inhibition of mixed-layer deepening during winter in the northeastern Arabian Sea by the West India Coastal Current. <i>Climate Dynamics</i> , 2016, 47, 1049-1072. | 3.8 | 49 |
| 40 | Impact of river runoff into the ocean on Indian summer monsoon. <i>Environmental Research Letters</i> , 2015, 10, 054008. | 5.2 | 29 |
| 41 | Phytoplankton size structure in the southern Bay of Bengal modified by the Summer Monsoon Current and associated eddies: Implications on the vertical biogenic flux. <i>Journal of Marine Systems</i> , 2015, 143, 98-119. | 2.1 | 66 |
| 42 | 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 |
| 43 | A summer monsoon pump to keep the Bay of Bengal salty. <i>Geophysical Research Letters</i> , 2013, 40, 1777-1782. | 4.0 | 101 |
| 44 | Yanai waves in the western equatorial Indian Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 1556-1570. | 2.6 | 41 |
| 45 | Mechanisms of summer intraseasonal sea surface temperature oscillations in the Bay of Bengal. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 38 |
| 46 | Signatures of Indian Ocean Dipole and El Niño-Southern Oscillation events in sea level variations in the Bay of Bengal. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 67 |
| 47 | 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 |
| 48 | Indian Ocean sea surface salinity variations in a coupled model. <i>Climate Dynamics</i> , 2009, 33, 245-263. | 3.8 | 68 |
| 49 | Biophysical processes in the Indian Ocean. <i>Geophysical Monograph Series</i> , 2009, , 9-32. | 0.1 | 60 |
| 50 | Impact of physical processes on chlorophyll distribution in the Bay of Bengal. <i>Geophysical Monograph Series</i> , 2009, , 71-86. | 0.1 | 37 |
| 51 | 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 |
| 52 | Mechanisms of South Indian Ocean intraseasonal cooling. <i>Geophysical Research Letters</i> , 2008, 35, . | 4.0 | 39 |
| 53 | Hydrographic observations and model simulation of the Bay of Bengal freshwater plume. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2007, 54, 471-486. | 1.4 | 62 |
| 54 | 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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| 55 | Westward movement of eddies into the Gulf of Aden from the Arabian Sea. <i>Journal of Geophysical Research</i> , 2007, 112, . | 3.3 | 41 |
| 56 | Indian Ocean response to anomalous conditions in 2006. <i>Geophysical Research Letters</i> , 2007, 34, . | 4.0 | 97 |
| 57 | 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 |
| 58 | Formation mechanisms of temperature inversions in the southeastern Arabian Sea. <i>Geophysical Research Letters</i> , 2006, 33, . | 4.0 | 46 |
| 59 | Hydrography of the eastern Arabian Sea during summer monsoon 2002. <i>Journal of Earth System Science</i> , 2005, 114, 459-474. | 1.3 | 44 |
| 60 | Bifurcation of the East India Coastal Current east of Sri Lanka. <i>Geophysical Research Letters</i> , 2005, 32, . | 4.0 | 46 |
| 61 | A numerical investigation of the phytoplankton bloom in the Bay of Bengal during Northeast Monsoon. <i>Journal of Geophysical Research</i> , 2005, 110, . | 3.3 | 39 |
| 62 | Biological response of the sea around Sri Lanka to summer monsoon. <i>Geophysical Research Letters</i> , 2004, 31, . | 4.0 | 127 |
| 63 | 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 |
| 64 | Summer cooling of the Arabian Sea during contrasting monsoons. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a. | 4.0 | 26 |
| 65 | 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 |
| 66 | 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 |
| 67 | 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 |
| 68 | 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 |
| 69 | The monsoon currents in the north Indian Ocean. <i>Progress in Oceanography</i> , 2002, 52, 63-120. | 3.2 | 602 |
| 70 | BOBMEX: The Bay of Bengal Monsoon Experiment. <i>Bulletin of the American Meteorological Society</i> , 2001, 82, 2217-2243. | 3.3 | 193 |
| 71 | A dipole mode in the tropical Indian Ocean. <i>Nature</i> , 1999, 401, 360-363. | 27.8 | 3,946 |
| 72 | 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 |

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| 73 | Intrusion of the Southwest Monsoon Current into the Bay of Bengal. Journal of Geophysical Research, 1999, 104, 11077-11085. | 3.3 | 167 |
| 74 | Title is missing!. Nature, 1999, 401, 360-363. | 27.8 | 1,290 |
| 75 | Monsoon Response of the Sea around Sri Lanka: Generation of Thermal Domes and Anticyclonic Vortices. Journal of Physical Oceanography, 1998, 28, 1946-1960. | 1.7 | 165 |
| 76 | Hydrography and circulation in the western Bay of Bengal during the northeast monsoon. Journal of Geophysical Research, 1996, 101, 14011-14025. | 3.3 | 355 |
| 77 | The warm pool in the Indian Ocean. Journal of Earth System Science, 1991, 100, 165-175. | 1.3 | 62 |
| 78 | Water vapour flux divergence over the Arabian Sea during 1987 summer monsoon using satellite data. Boundary-Layer Meteorology, 1990, 51, 199-209. | 2.3 | 3 |
| 79 | Latent and sensible heat fluxes under active and weak phases of the summer monsoon of 1986. Journal of Earth System Science, 1989, 98, 213-222. | 1.3 | 3 |
| 80 | A dipole mode in the tropical Indian Ocean. , 0, . | | 1 |
| 81 | Connectivity networks and delineation of disconnected coastal provinces along the Indian coastline using large-scale Lagrangian transport simulations. Limnology and Oceanography, 0, , . | 3.1 | 2 |
| 82 | The Irrawaddy River Jet in the Andaman Sea During the Summer Monsoon. Frontiers in Marine Science, 0, 9, . | 2.5 | 2 |