

# Vethamony Ponnumony

## 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.

96  
papers

1,891  
citations

25  
h-index

39  
g-index

103  
ext. papers

2,404  
ext. citations

4.5  
avg, IF

5.11  
L-index

#	Paper	IF	Citations
96	Distribution and environmental geochemical indices of mercury in tar contaminated beaches along the coast of Qatar.. <i>Marine Pollution Bulletin</i> , <b>2022</b> , 175, 113349	6.7	
95	History of a disaster: A baseline assessment of the Wakashio oil spill on the coast of Mauritius, Indian Ocean.. <i>Marine Pollution Bulletin</i> , <b>2022</b> , 175, 113330	6.7	4
94	Target gastropods for standardizing the monitoring of tar mat contamination in the Arabian Gulf. <i>Regional Studies in Marine Science</i> , <b>2022</b> , 102328	1.5	
93	Molluscan Diversity Influenced by Mangrove Habitat in the Khors of Qatar. <i>Wetlands</i> , <b>2021</b> , 41, 1	1.7	2
92	Observed variability in physical and biogeochemical parameters in the central Arabian Gulf. <i>Oceanologia</i> , <b>2021</b> , 63, 227-237	2.2	4
91	Detection of Wakashio oil spill off Mauritius using Sentinel-1 and 2 data: Capability of sensors, image transformation methods and mapping. <i>Environmental Pollution</i> , <b>2021</b> , 274, 116618	9.3	11
90	Hitchhiking of encrusting organisms on floating marine debris along the west coast of Qatar, Arabian/Persian Gulf. <i>Science of the Total Environment</i> , <b>2021</b> , 776, 145985	10.2	7
89	The maxima in northerly wind speeds and wave heights over the Arabian Sea, the Arabian/Persian Gulf and the Red Sea derived from 40 years of ERA5 data. <i>Climate Dynamics</i> , <b>2021</b> , 56, 1037-1052	4.2	7
88	Sentinel-2 image transformation methods for mapping oil spill - A case study with Wakashio oil spill in the Indian Ocean, off Mauritius. <i>MethodsX</i> , <b>2021</b> , 8, 101327	1.9	2
87	WorldView-3 mapping of Tarmat deposits of the Ras Rakan Island, Northern Coast of Qatar: Environmental perspective. <i>Marine Pollution Bulletin</i> , <b>2021</b> , 163, 111988	6.7	6
86	Long-Term Assessment of Onshore and Offshore Wind Energy Potentials of Qatar. <i>Energies</i> , <b>2021</b> , 14, 1178	3.1	9
85	Monitoring oil spill in Norilsk, Russia using satellite data. <i>Scientific Reports</i> , <b>2021</b> , 11, 3817	4.9	18
84	Assessment of potential ecological risk of microplastics in the coastal sediments of India: A meta-analysis. <i>Marine Pollution Bulletin</i> , <b>2021</b> , 163, 111969	6.7	30
83	Role of shamal and easterly winds on the wave characteristics off Qatar, central Arabian Gulf. <i>Ocean Engineering</i> , <b>2021</b> , 236, 109457	3.9	4
82	Factors influencing the vertical distribution of microplastics in the beach sediments around the Ras Rakan Island, Qatar. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 34259-34268	5.1	8
81	Formation and weathering assessment of oil-suspended sediment aggregates through a laboratory investigation. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 17181-17199	5.1	3
80	Field and laboratory investigation of tarmat deposits found on Ras Rakan Island and northern beaches of Qatar. <i>Science of the Total Environment</i> , <b>2020</b> , 735, 139516	10.2	11

79	Spatial distribution, structural characterization and weathering of tarmats along the west coast of Qatar. <i>Marine Pollution Bulletin</i> , <b>2020</b> , 159, 111486	6.7	3
78	Microplastics in different environmental compartments in India: Analytical methods, distribution, associated contaminants and research needs. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2020</b> , 133, 116071	14.6	27
77	Sources, spatial distribution and characteristics of marine litter along the west coast of Qatar. <i>Marine Pollution Bulletin</i> , <b>2020</b> , 159, 111478	6.7	6
76	Contributions of Fourier transform infrared spectroscopy in microplastic pollution research: A review. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2020</b> , 1-63	11.1	62
75	Assessing the source of oil deposited in the surface sediment of Mormugao Port, Goa - A case study of MV Qing incident. <i>Marine Pollution Bulletin</i> , <b>2019</b> , 145, 88-95	6.7	3
74	Oil pollution in the Eastern Arabian Sea from invisible sources: A multi-technique approach. <i>Marine Pollution Bulletin</i> , <b>2019</b> , 146, 683-695	6.7	18
73	Attenuation of Wave Energy Due to Mangrove Vegetation off Mumbai, India. <i>Energies</i> , <b>2019</b> , 12, 4286	3.1	4
72	A new insight to vulnerability of Central Odisha coast, India using analytical hierarchical process (AHP) based approach. <i>Journal of Coastal Conservation</i> , <b>2018</b> , 22, 799-819	1.9	8
71	Interannual and long-term sea level variability in the eastern Indian Ocean and South China Sea. <i>Climate Dynamics</i> , <b>2018</b> , 50, 3195-3217	4.2	2
70	Assessment of the environmental health of an ecologically sensitive, semi-enclosed, basin - A water quality modelling approach. <i>Marine Pollution Bulletin</i> , <b>2018</b> , 137, 418-429	6.7	0
69	Temporal water quality response in an urban river: a case study in peninsular Malaysia. <i>Applied Water Science</i> , <b>2017</b> , 7, 923-933	5	10
68	Suspended matter and fluid mud off Alleppey, southwest coast of India. <i>Estuarine, Coastal and Shelf Science</i> , <b>2017</b> , 185, 31-43	2.9	18
67	Wave energy dissipation due to mudbanks formed off southwest coast of India. <i>Estuarine, Coastal and Shelf Science</i> , <b>2017</b> , 196, 387-398	2.9	9
66	Wave-current interaction during Hudhud cyclone in the Bay of Bengal. <i>Natural Hazards and Earth System Sciences</i> , <b>2017</b> , 17, 2059-2074	3.9	19
65	Reevaluation of Design Waves Off the Western Indian Coast Considering Climate Change. <i>Marine Technology Society Journal</i> , <b>2016</b> , 50, 88-98	0.5	17
64	Long-Term Variability of the Wind Field over the Indian Ocean Based on ERA-Interim Reanalysis. <i>Atmosphere - Ocean</i> , <b>2016</b> , 54, 505-518	1.5	7
63	Influence of 2015 flood on the distribution and occurrence of microplastic pellets along the Chennai coast, India. <i>Marine Pollution Bulletin</i> , <b>2016</b> , 109, 196-204	6.7	143
62	Backtrack modeling to locate the origin of tar balls depositing along the west coast of India. <i>Science of the Total Environment</i> , <b>2016</b> , 569-570, 31-39	10.2	16

61	Characteristics, seasonal distribution and surface degradation features of microplastic pellets along the Goa coast, India. <i>Chemosphere</i> , <b>2016</b> , 159, 496-505	8.4	164
60	Verification of model wave heights with long-term moored buoy data: Application to wave field over the Indian Ocean. <i>Ocean Engineering</i> , <b>2015</b> , 104, 469-479	3.9	16
59	Decadal shoreline assessment using remote sensing along the central Odisha coast, India. <i>Environmental Earth Sciences</i> , <b>2015</b> , 74, 7201-7213	2.9	33
58	Identifying the source of tar balls deposited along the beaches of Goa in 2013 and comparing with historical data collected along the West Coast of India. <i>Science of the Total Environment</i> , <b>2015</b> , 527-528, 313-21	10.2	15
57	Southwest monsoon influences the water quality and waste assimilative capacity in the Mandovi estuary (Goa state, India). <i>Chemistry and Ecology</i> , <b>2015</b> , 31, 217-234	2.3	13
56	Influence of natural and anthropogenic factors on the water quality of the coastal waters around the South Andaman in the Bay of Bengal. <i>Natural Hazards</i> , <b>2015</b> , 78, 309-331	3	4
55	Inter-annual sea level variability in the southern South China Sea. <i>Global and Planetary Change</i> , <b>2015</b> , 133, 17-26	4.2	13
54	Assessment of the land use/land cover (LU/LC) and mangrove changes along the Mandovi-Zuari estuarine complex of Goa, India. <i>Arabian Journal of Geosciences</i> , <b>2015</b> , 8, 267-279	1.8	30
53	Projected impact of climate change on waves at Mumbai High. <i>Proceedings of the Institution of Civil Engineers: Maritime Engineering</i> , <b>2015</b> , 168, 20-29	1.8	1
52	Coastal sea level response to the tropical cyclonic forcing in the northern Indian Ocean. <i>Ocean Science</i> , <b>2015</b> , 11, 159-173	4	3
51	Pre-monsoon hydrodynamic modeling of Goa coast, West coast of India. <i>ISH Journal of Hydraulic Engineering</i> , <b>2015</b> , 21, 276-286	1.5	0
50	Depositional record of trace metals and degree of contamination in core sediments from the Mandovi estuarine mangrove ecosystem, west coast of India. <i>Marine Pollution Bulletin</i> , <b>2015</b> , 91, 362-7	6.7	40
49	Bacterial bioluminescence response to long-term exposure to reverse osmosis treated effluents from dye industries. <i>Canadian Journal of Microbiology</i> , <b>2014</b> , 60, 661-8	3.2	2
48	What drives nearshore sediment transport controls on the depletion of beach placers at Manavalakurichi, Southwest Coast of India?. <i>Physical Geography</i> , <b>2014</b> , 35, 411-428	1.8	
47	Source investigation of the tar balls deposited along the Gujarat coast, India, using chemical fingerprinting and transport modeling techniques. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 11343-51	10.3	22
46	On the spatial structure and time evolution of shamal winds over the Arabian Sea: A case study through numerical modelling. <i>International Journal of Climatology</i> , <b>2014</b> , 34, 2122-2128	3.5	8
45	Waste Assimilative Capacity of Coastal Waters along Mumbai Mega City, West Coast of India Using MIKE-21 and WASP Simulation Models. <i>Clean - Soil, Air, Water</i> , <b>2014</b> , 42, 295-305	1.6	15
44	Sea breeze-induced wind sea growth in the central west coast of India. <i>Ocean Engineering</i> , <b>2014</b> , 84, 20-28	9	12

43	Barnacle larval transport in the Mandovi-Zuari estuarine system, central west coast of India. <i>Journal of Oceanography</i> , <b>2013</b> , 69, 451-466	1.9	9
42	Simulation of Trajectories of Tar Ball Transport to the Goa Coast. <i>Water, Air, and Soil Pollution</i> , <b>2013</b> , 224, 1	2.6	15
41	Identification of sources of tar balls deposited along the Goa coast, India, using fingerprinting techniques. <i>Marine Pollution Bulletin</i> , <b>2013</b> , 70, 81-9	6.7	24
40	Storm surges in the Singapore Strait due to winds in the South China Sea. <i>Natural Hazards</i> , <b>2013</b> , 66, 1345-1362	10	
39	Coastal vulnerability assessment of Puducherry coast, India, using the analytical hierarchical process. <i>Natural Hazards and Earth System Sciences</i> , <b>2013</b> , 13, 3291-3311	3.9	98
38	Wave Transformation and Attenuation Along the West Coast of India: Measurements and Numerical Simulations. <i>Coastal Engineering Journal</i> , <b>2013</b> , 55, 1350001-1-1350001-21	2.8	14
37	Sea level trend and variability in the Singapore Strait. <i>Ocean Science</i> , <b>2013</b> , 9, 293-300	4	20
36	Co-existence of wind seas and swells along the west coast of India during non-monsoon season. <i>Ocean Science</i> , <b>2013</b> , 9, 281-292	4	14
35	Residence time of pollutants discharged in the Gulf of Kachchh, northwestern Arabian Sea. <i>Marine Pollution Bulletin</i> , <b>2012</b> , 64, 1659-66	6.7	26
34	Numerical simulations of barnacle larval dispersion coupled with field observations on larval abundance, settlement and recruitment in a tropical monsoon influenced coastal marine environment. <i>Journal of Marine Systems</i> , <b>2012</b> , 94, 218-231	2.7	11
33	Remotely Sensed Chlorophyll: A Putative Trophic Link for Explaining Variability in Indian Oil Sardine Stocks. <i>Journal of Coastal Research</i> , <b>2012</b> , 278, 105-113	0.6	16
32	Coastal circulation along the central west coast of India during cyclone Phyan: measurements and numerical simulations. <i>Natural Hazards</i> , <b>2012</b> , 64, 259-271	3	4
31	Propagation of Atlantic Ocean swells in the north Indian Ocean: a case study. <i>Natural Hazards and Earth System Sciences</i> , <b>2012</b> , 12, 3605-3615	3.9	26
30	Swells in the Arabian Sea and their influence along the west coast of India. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	72
29	Fish larval transport in a macro-tidal regime: Gulf of Kachchh, west coast of India. <i>Fisheries Research</i> , <b>2011</b> , 110, 160-169	2.3	13
28	On the dominance of pre-existing swells over wind seas along the west coast of India. <i>Continental Shelf Research</i> , <b>2011</b> , 31, 1701-1712	2.4	41
27	Superimposition of wind seas on pre-existing swells off Goa coast. <i>Journal of Marine Systems</i> , <b>2011</b> , 87, 47-54	2.7	40
26	Dynamics of chromophoric dissolved organic matter in Mandovi and Zuari estuaries: A study through in situ and satellite data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2011</b> , 66, 545-552	11.8	18

25	Aerosol optical thickness and spatial variability along coastal and offshore waters of the eastern Arabian Sea. <i>ICES Journal of Marine Science</i> , <b>2011</b> , 68, 745-750	2.7	5
24	Simulation of coastal winds along the central west coast of India using the MM5 mesoscale model. <i>Meteorology and Atmospheric Physics</i> , <b>2010</b> , 109, 91-106	2	8
23	Dispersion and retrievability of water quality indicators during tidal cycles in coastal Salaya, Gulf of Kachchh (West coast of India). <i>Environmental Monitoring and Assessment</i> , <b>2010</b> , 169, 639-45	3.1	4
22	Spectral characteristics of the nearshore waves off Paradip, India during monsoon and extreme events. <i>Natural Hazards</i> , <b>2009</b> , 49, 311-323	3	39
21	Demarcation of inland vessels limit off Mormugao port region, India: a pilot study for the safety of inland vessels using wave modelling. <i>Natural Hazards</i> , <b>2009</b> , 49, 411-420	3	20
20	Factors controlling physico-chemical characteristics in the coastal waters off Mangalore--a multivariate approach. <i>Environmental Research</i> , <b>2009</b> , 109, 245-57	7.9	36
19	Seasonal Occurrence of Unique Sediment Plume in the Bay of Bengal. <i>Eos</i> , <b>2008</b> , 89, 22	1.5	13
18	Stability of a sand spit due to dredging in an adjacent creek. <i>Ocean Engineering</i> , <b>2007</b> , 34, 638-643	3.9	5
17	Thermohaline structure of an inverse estuary--The Gulf of Kachchh: measurements and model simulations. <i>Marine Pollution Bulletin</i> , <b>2007</b> , 54, 697-707	6.7	18
16	Source and dispersal of suspended sediment in the macro-tidal Gulf of Kachchh. <i>Marine Pollution Bulletin</i> , <b>2007</b> , 54, 708-19	6.7	34
15	Trajectory of an oil spill off Goa, eastern Arabian Sea: field observations and simulations. <i>Environmental Pollution</i> , <b>2007</b> , 148, 438-44	9.3	46
14	Wave modelling for the north Indian Ocean using MSMR analysed winds. <i>International Journal of Remote Sensing</i> , <b>2006</b> , 27, 3767-3780	3.1	29
13	BOD-DO modeling and water quality analysis of a waste water outfall off Kochi, west coast of India. <i>Environment International</i> , <b>2006</b> , 32, 165-73	12.9	26
12	Tidal eddies in a semi-enclosed basin: a model study. <i>Marine Environmental Research</i> , <b>2005</b> , 59, 519-32	3.3	32
11	Modelling tide-driven currents and residual eddies in the Gulf of Kachchh and their seasonal variability. <i>Ecological Modelling</i> , <b>2005</b> , 184, 299-312	3	45
10	Dissolved oxygen--a target indicator in determining use of the Gulf of Kachchh waters. <i>Marine Pollution Bulletin</i> , <b>2005</b> , 50, 73-9	6.7	20
9	Oceanographic studies off Beypore Port, west coast of India to locate a dredge dumping site. <i>Environmental Monitoring and Assessment</i> , <b>2004</b> , 90, 269-88	3.1	2
8	On the circulation in the Bay of Bengal during Northern spring inter-monsoon (March-April 1987). <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2003</b> , 50, 855-865	2.3	65

7	XBT Fall Rate in Waters of Extreme Temperature: A Case Study in the Antarctic Ocean. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2002</b> , 19, 391-396	2	39
6	Wave directional spectrum from SAR imagery <b>2000</b> , 28, 9-18		2
5	Tidal Regime in Gulf of Kutch, West Coast of India, by 2D Model. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , <b>1999</b> , 125, 276-284	1.7	25
4	Wave attenuation characteristics of a tethered float system. <i>Ocean Engineering</i> , <b>1995</b> , 22, 111-129	3.9	3
3	Significance of relative velocity in the estimation of drag force of a tethered spherical float. <i>Ocean Engineering</i> , <b>1993</b> , 20, 449-457	3.9	2
2	Estimation of added-mass and damping coefficients of a tethered spherical float using potential flow theory. <i>Ocean Engineering</i> , <b>1992</b> , 19, 427-436	3.9	7
1	Heat energy exchange over a large water body under stable atmospheric conditions. <i>Boundary-Layer Meteorology</i> , <b>1988</b> , 44, 171-180	3.4	4