

Changming Dong

List of Publications by Citations

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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.

97
papers

1,997
citations

22
h-index

43
g-index

107
ext. papers

2,684
ext. citations

3.4
avg, IF

5.01
L-index

#	Paper	IF	Citations
97	A Vector GeometryBased Eddy Detection Algorithm and Its Application to a High-Resolution Numerical Model Product and High-Frequency Radar Surface Velocities in the Southern California Bight. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010 , 27, 564-579	2	256
96	Global heat and salt transports by eddy movement. <i>Nature Communications</i> , 2014 , 5, 3294	17.4	208
95	Island Wakes in Deep Water. <i>Journal of Physical Oceanography</i> , 2007 , 37, 962-981	2.4	121
94	The Canary Eddy Corridor: A major pathway for long-lived eddies in the subtropical North Atlantic. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009 , 56, 2100-2114	2.5	120
93	Eddy analysis in the subtropical zonal band of the North Pacific Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2012 , 68, 54-67	2.5	98
92	A numerical study of island wakes in the Southern California Bight. <i>Continental Shelf Research</i> , 2007 , 27, 1233-1248	2.4	94
91	Circulation and multiple-scale variability in the Southern California Bight. <i>Progress in Oceanography</i> , 2009 , 82, 168-190	3.8	87
90	An Automated Approach to Detect Oceanic Eddies From Satellite Remotely Sensed Sea Surface Temperature Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2011 , 8, 1055-1059	4.1	64
89	Three-dimensional properties of mesoscale eddies in the South China Sea based on eddy-resolving model output. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2015 , 99, 46-64	2.5	61
88	Sediment-transport modeling on Southern Californian shelves: A ROMS case study. <i>Continental Shelf Research</i> , 2007 , 27, 832-853	2.4	61
87	Atmospheric responses to oceanic eddies in the Kuroshio Extension region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 6313-6330	4.4	59
86	Three-dimensional oceanic eddy analysis in the Southern California Bight from a numerical product. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		55
85	SSTWind Interaction in Coastal Upwelling: Oceanic Simulation with Empirical Coupling. <i>Journal of Physical Oceanography</i> , 2009 , 39, 2957-2970	2.4	54
84	Modeling tides in Monterey Bay, California. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009 , 56, 219-231	2.3	36
83	Observed deep energetic eddies by seamount wake. <i>Scientific Reports</i> , 2015 , 5, 17416	4.9	35
82	A Scheme to Identify Loops from Trajectories of Oceanic Surface Drifters: An Application in the Kuroshio Extension Region. <i>Journal of Atmospheric and Oceanic Technology</i> , 2011 , 28, 1167-1176	2	29
81	Vertical structure anomalies of oceanic eddies in the Kuroshio Extension region. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 1476-1496	3.3	28

80	An oceanic cyclonic eddy on the lee side of Lanai Island, Hawaii. <i>Journal of Geophysical Research</i> , 2009 , 114,		27
79	Oceanic Eddy Identification Using an AI Scheme. <i>Remote Sensing</i> , 2019 , 11, 1349	5	26
78	Responses of the Tropical Atmospheric Circulation to Climate Change and Connection to the Hydrological Cycle. <i>Annual Review of Earth and Planetary Sciences</i> , 2018 , 46, 549-580	15.3	23
77	A new dipole index of the salinity anomalies of the tropical Indian Ocean. <i>Scientific Reports</i> , 2016 , 6, 24260	4.9	22
76	The pattern and variability of winter Kuroshio intrusion northeast of Taiwan. <i>Journal of Geophysical Research: Oceans</i> , 2014 , 119, 5380-5394	3.3	22
75	The Seasonality of Submesoscale Energy Production, Content, and Cascade. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087388	4.9	19
74	Oceanic Eddy Characteristics and Generation Mechanisms in the Kuroshio Extension Region. <i>Journal of Geophysical Research: Oceans</i> , 2018 , 123, 8548-8567	3.3	19
73	Statistical Characteristics of Cyclonic Warm-Core Eddies and Anticyclonic Cold-Core Eddies in the North Pacific Based on Remote Sensing Data. <i>Remote Sensing</i> , 2019 , 11, 208	5	18
72	The Scale of Submesoscale Baroclinic Instability Globally. <i>Journal of Physical Oceanography</i> , 2020 , 50, 2649-2667	2.4	18
71	Vertical Structure Anomalies of Oceanic Eddies and Eddy-Induced Transports in the South China Sea. <i>Remote Sensing</i> , 2018 , 10, 795	5	16
70	The influence of ENSO on an oceanic eddy pair in the South China Sea. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 1643-1652	3.3	15
69	Seasonal variations in atmospheric responses to oceanic eddies in the Kuroshio Extension. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2016 , 68, 31563	2	15
68	A Model Study of Internal Tides in Coastal Frontal Zone*. <i>Journal of Physical Oceanography</i> , 2003 , 33, 170-187	2.4	15
67	Chlorophyll Rings around Ocean Eddies in the North Pacific. <i>Scientific Reports</i> , 2019 , 9, 2056	4.9	13
66	Tidally Induced Cross-Frontal Mean Circulation: Analytical Study*. <i>Journal of Physical Oceanography</i> , 2004 , 34, 293-305	2.4	13
65	Sensitivity of Coastal Currents near Point Conception to Forcing by Three Different Winds: ECMWF, COAMPS, and Blended SSM/IECMWFBuoy Winds. <i>Journal of Physical Oceanography</i> , 2005 , 35, 1229-1244	2.4	13
64	Antisymmetry of oceanic eddies across the Kuroshio over a shelfbreak. <i>Scientific Reports</i> , 2017 , 7, 6761	4.9	12
63	Variation of River Islands around a Large City along the Yangtze River from Satellite Remote Sensing Images. <i>Sensors</i> , 2017 , 17,	3.8	11

62	Moored observation of abyssal flow and temperature near a hydrothermal vent on the Southwest Indian Ridge. <i>Journal of Geophysical Research: Oceans</i> , 2016 , 121, 836-860	3.3	10
61	Eddy analysis in the Eastern China Sea using altimetry data. <i>Frontiers of Earth Science</i> , 2015 , 9, 709-721	1.7	10
60	Island Wakes in Shallow Water. <i>Atmosphere - Ocean</i> , 2018 , 56, 96-103	1.5	9
59	Numerical simulation of a synoptic event in the Southern California Bight. <i>Journal of Geophysical Research</i> , 2011 , 116,		9
58	The Scale and Activity of Symmetric Instability Estimated from a Global Submesoscale-Permitting Ocean Model. <i>Journal of Physical Oceanography</i> , 2021 , 51, 1655-1670	2.4	9
57	Improving Significant Wave Height Forecasts Using a Joint Empirical Mode Decomposition Long Short-Term Memory Network. <i>Journal of Marine Science and Engineering</i> , 2021 , 9, 744	2.4	9
56	Statistical study of submesoscale eddies identified from synthetic aperture radar images in the Luzon Strait and adjacent seas. <i>International Journal of Remote Sensing</i> , 2015 , 36, 4621-4631	3.1	8
55	Seasonal variation of the global mixed layer depth: comparison between Argo data and FIO-ESM. <i>Frontiers of Earth Science</i> , 2018 , 12, 24-36	1.7	8
54	Effect of subtropical mode water on the decadal variability of the subsurface transport through the Luzon Strait in the western Pacific Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 6829-6842 ^{2,3}	2.3	8
53	Impacts of Mesoscale Currents on the Diurnal Critical Latitude Dependence of Internal Tides: A Numerical Experiment Based on Barcoo Seamount. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 2452-2471	3.3	7
52	Multiple-Scale Variations of Wind-Generated Waves in the Southern California Bight. <i>Journal of Geophysical Research: Oceans</i> , 2018 , 123, 9340-9356	3.3	7
51	Multi-Source Data Analysis of Mesoscale Eddies and Their Effects on Surface Chlorophyll in the Bay of Bengal. <i>Remote Sensing</i> , 2020 , 12, 3485	5	6
50	The influences of the Kuroshio on wave characteristics and wave energy distribution in the East China Sea. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2020 , 158, 103228	2.5	6
49	Identification of tidal mixing fronts from high-resolution along-track altimetry data. <i>Remote Sensing of Environment</i> , 2018 , 209, 489-496	13.2	6
48	Variation of the Kuroshio intrusion pathways northeast of Taiwan using the Lagrangian method. <i>Science China Earth Sciences</i> , 2016 , 59, 268-280	4.6	6
47	An oceanic eddy statistical comparison using multiple observational data in the Kuroshio Extension region. <i>Acta Oceanologica Sinica</i> , 2017 , 36, 1-7	1	6
46	Atmospheric responses to oceanic mesoscale eddies based on an idealized model. <i>International Journal of Climatology</i> , 2019 , 39, 1665-1683	3.5	5
45	Regional Dependence of Atmospheric Responses to Oceanic Eddies in the North Pacific Ocean. <i>Remote Sensing</i> , 2020 , 12, 1161	5	5

44	Seasonal and Interannual Variability in the Wind-Driven Upwelling Along the Southern East China Sea Coast. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016 , 9, 5151-5158 ⁵	4.7	5
43	Turbulent kinetic energy of the ocean winds over the Kuroshio Extension from QuikSCAT winds (1999-2009). <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 4482-4499	3.3	4
42	Effects of Model Coupling on Typhoon Kalmaegi (2014) Simulation in the South China Sea. <i>Atmosphere</i> , 2020 , 11, 432	2.7	4
41	Anatomy of a Cyclonic Eddy in the Kuroshio Extension Based on High-Resolution Observations. <i>Atmosphere</i> , 2019 , 10, 553	2.7	4
40	Bidirectional Modeling of Surface Winds and Significant Wave Heights in the Caribbean Sea. <i>Journal of Marine Science and Engineering</i> , 2021 , 9, 547	2.4	4
39	Variability of the Great Whirl and Its Impacts on Atmospheric Processes. <i>Remote Sensing</i> , 2019 , 11, 322	5	3
38	SST Anomalies in the Mozambique Channel Using Remote Sensing and Numerical Modeling Data. <i>Remote Sensing</i> , 2019 , 11, 1112	5	3
37	On the Vorticity Balance over Steep Slopes: Kuroshio Intrusions Northeast of Taiwan. <i>Journal of Physical Oceanography</i> , 2020 , 50, 2089-2104	2.4	3
36	Three-Dimensional Baroclinic Eddies in the Ocean: Evolution, Propagation, Overall Structures, and Angular Models. <i>Journal of Physical Oceanography</i> , 2019 , 49, 2571-2599	2.4	3
35	Multiple-Scale Variations of Sea Ice and Ocean Circulation in the Bering Sea Using Remote Sensing Observations and Numerical Modeling. <i>Remote Sensing</i> , 2019 , 11, 1484	5	3
34	Numerical Study on Tidally Induced Cross-Frontal Mean Circulation. <i>Atmosphere - Ocean</i> , 2015 , 53, 363-375	3	3
33	Numerical study of the diapycnal flow through a tidal front with passive tracers. <i>Journal of Geophysical Research</i> , 2004 , 109,		3
32	Application of Symmetric Instability Parameterization in the Coastal and Regional Ocean Community Model (CROCO). <i>Journal of Advances in Modeling Earth Systems</i> , 2021 , 13, e2020MS002302	7.1	3
31	Feature Comparison of Two Mesoscale Eddy Datasets Based on Satellite Altimeter Data. <i>Remote Sensing</i> , 2022 , 14, 116	5	3
30	Trajectory patterns of the annual cycle of the heat centre of the Indo-Pacific warm pool. <i>International Journal of Climatology</i> , 2017 , 37, 637-647	3.5	2
29	Impacts of the mid-latitude westerlies anomaly on the decadal sea level variability east of China. <i>Climate Dynamics</i> , 2019 , 53, 5985-5998	4.2	2
28	Multiple-scale temporal variations and fluxes near a hydrothermal vent over the Southwest Indian Ridge. <i>Frontiers of Earth Science</i> , 2015 , 9, 691-699	1.7	2
27	Influences of Deep-Water Seamounts on the Hydrodynamic Environment in the Northwestern Pacific Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2021 , 126, e2021JC017396	3.3	2

26	Global Wave Height Slowdown Trend during a Recent Global Warming Slowdown. <i>Remote Sensing</i> , 2021 , 13, 4096	5	2
25	Statistical analysis of intensity variations in tropical cyclones in the East China Sea passing over the Kuroshio. <i>Journal of Oceanology and Limnology</i> , 2020 , 38, 1632-1639	1.5	2
24	Atmospheric Cold Front-Generated Waves in the Coastal Louisiana. <i>Journal of Marine Science and Engineering</i> , 2020 , 8, 900	2.4	2
23	Observing and Modeling the Response of Placentia Bay to an Extratropical Cyclone. <i>Atmosphere</i> , 2019 , 10, 724	2.7	2
22	The Spatio-Temporal Evolution of River Island Based on Landsat Satellite Imagery, Hydrodynamic Numerical Simulation and Observed Data. <i>Remote Sensing</i> , 2018 , 10, 2046	5	2
21	Numerical Simulation and Observational Data Analysis of Mesoscale Eddy Effects on Surface Waves in the South China Sea. <i>Remote Sensing</i> , 2022 , 14, 1463	5	2
20	Numerical research on evolvement of submarine sand waves in the Northern South China Sea. <i>Frontiers of Earth Science</i> , 2017 , 11, 35-45	1.7	1
19	Parameterization of Wave-Induced Mixing Using the Large Eddy Simulation (LES) (I). <i>Atmosphere</i> , 2020 , 11, 207	2.7	1
18	Marine heatwave events near Weizhou Island, Beibu Gulf in 2020 and their possible relations to coral bleaching.. <i>Science of the Total Environment</i> , 2022 , 153414	10.2	1
17	Three-dimensional properties of mesoscale cyclonic warm-core and anticyclonic cold-core eddies in the South China Sea. <i>Acta Oceanologica Sinica</i> , 2021 , 40, 17-29	1	1
16	An Empirical Wind-Wave Model for Hurricane-Forced Wind Waves in the Caribbean Sea. <i>Earth and Space Science</i> , 2021 , 8, e2021EA001956	3.1	1
15	Observations of SST-Induced Wind Perturbations in the Leeuwin Current. <i>Journal of Geophysical Research: Oceans</i> , 2021 , 126, e2020JC016993	3.3	1
14	Validation of an Improved Statistical Theory for Sea Surface Whitecap Coverage Using Satellite Remote Sensing Data. <i>Sensors</i> , 2018 , 18,	3.8	1
13	A Comparative Study of the Landfall Precipitation by Tropical Cyclones ARB 01 (2002) and Luban (2018) near the Arabian Peninsula. <i>Remote Sensing</i> , 2022 , 14, 1194	5	1
12	Observation of submesoscale turbulence in a cyclonic eddy. <i>Ocean Dynamics</i> , 2020 , 70, 513-520	2.3	0
11	Cross-shelf transport induced by coastal trapped waves along the coast of East China Sea. <i>Journal of Oceanology and Limnology</i> , 2018 , 36, 630-640	1.5	0
10	Eddy diffusivity and coherent mesoscale eddy analysis in the Southern Ocean. <i>Acta Oceanologica Sinica</i> , 2021 , 40, 1-16	1	0
9	GOCI-Observed Chlorophyll Belts Associated With Sea-Surface Fronts in the East China Sea. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020 , 17, 1299-1302	4.1	0

8	Sri Lanka seasonal warm pools. <i>Journal of Oceanology and Limnology</i> , 2021 , 39, 437-446	1.5	0
7	Numerical study of the seasonal salinity budget of the upper ocean in the Bay of Bengal in 2014. <i>Journal of Oceanology and Limnology</i> , 2021 , 39, 1169	1.5	0
6	Submesoscale eddies in the East China Sea detected from SAR images. <i>Acta Oceanologica Sinica</i> , 2021 , 40, 18-26	1	0
5	Prediction of the South China Sea Dipole Using SSA-MEM. <i>Atmosphere - Ocean</i> , 2018 , 56, 240-253	1.5	
4	Conversion of Pressure to Depth for Moored Instruments Using a Reference Bottom Mounted Pressure Sensor. <i>Atmosphere - Ocean</i> , 2015 , 53, 377-382	1.5	
3	Interannual Variability of Surface Salinity and Ekman Pumping in the Canada Basin During Summertime of 2003-2017. <i>Journal of Geophysical Research: Oceans</i> , 2021 , 126, e2021JC017176	3.3	
2	An approach to determine coefficients of logarithmic velocity vertical profile in the bottom boundary layer. <i>Journal of Oceanology and Limnology</i> , 1	1.5	
1	Rosby Waves 2019 , 650-655		