Jiwei Tian

List of Publications by Year
in descending order

82 papers	2,795 citations	201674 27 h-index	197818 49 g-index
82 all docs	82 docs citations	82 times ranked	1648 citing authors

#	Article	IF	Citations
1	Observation of Luzon Strait transport. Geophysical Research Letters, 2006, 33, .	4.0	246
2	Observed 3D Structure, Generation, and Dissipation of Oceanic Mesoscale Eddies in the South China Sea. Scientific Reports, 2016, 6, 24349.	3.3	202
3	Enhanced Diapycnal Mixing in the South China Sea. Journal of Physical Oceanography, 2009, 39, 3191-3203.	1.7	201
4	A mesoscale eddy pair southwest of Taiwan and its influence on deep circulation. Journal of Geophysical Research: Oceans, 2013, 118, 6479-6494.	2.6	143
5	Observed upper ocean response to typhoon Megi (2010) in the Northern South China Sea. Journal of Geophysical Research: Oceans, 2014, 119, 3134-3157.	2.6	128
6	Proliferation of hydrocarbon-degrading microbes at the bottom of the Mariana Trench. Microbiome, 2019, 7, 47.	11.1	128
7	Anticyclonic Eddy Sheddings from Kuroshio Loop and the Accompanying Cyclonic Eddy in the Northeastern South China Sea. Journal of Physical Oceanography, 2017, 47, 1243-1259.	1.7	125
8	Deep water circulation in the Luzon Strait. Journal of Geophysical Research: Oceans, 2014, 119, 790-804.	2.6	110
9	Three-Dimensional Distribution of Turbulent Mixing in the South China Sea. Journal of Physical Oceanography, 2016, 46, 769-788.	1.7	85
10	Variability of the Deep-Water Overflow in the Luzon Strait*. Journal of Physical Oceanography, 2014, 44, 2972-2986.	1.7	69
11	Spatial structure and temporal variability of the zonal flow in the <scp>L</scp>uzon <scp>S</scp>trait. Journal of Geophysical Research: Oceans, 2015, 120, 759-776.	2.6	67
12	Observed and simulated submesoscale vertical pump of an anticyclonic eddy in the South China Sea. Scientific Reports, 2017, 7, 44011.	3.3	64
13	Elevated Mixing in the Periphery of Mesoscale Eddies in the South China Sea. Journal of Physical Oceanography, 2017, 47, 895-907.	1.7	56
14	Impacts of a Mesoscale Eddy Pair on Internal Solitary Waves in the Northern South China Sea revealed by Mooring Array Observations. Journal of Physical Oceanography, 2017, 47, 1539-1554.	1.7	54
15	Dissolved black carbon is not likely a significant refractory organic carbon pool in rivers and oceans. Nature Communications, 2020, 11, 5051.	12.8	53
16	Novel insights into the Thaumarchaeota in the deepest oceans: their metabolism and potential adaptation mechanisms. Microbiome, 2020, 8, 78.	11.1	47
17	Deep Western Boundary Current in the South China Sea. Scientific Reports, 2017, 7, 9303.	3.3	45
18	Advances in research on the deep South China Sea circulation. Science Bulletin, 2012, 57, 3115-3120.	1.7	44

#	Article	IF	Citations
19	Subthermocline eddies observed by rapidâ€sampling Argo floats in the subtropical northwestern Pacific Ocean in Spring 2014. Geophysical Research Letters, 2015, 42, 6438-6445.	4.0	41
20	Latitude-dependent finescale turbulent shear generations in the Pacific tropical-extratropical upper ocean. Nature Communications, 2018, 9, 4086.	12.8	40
21	Spatiotemporal Characteristics and Generation Mechanisms of Submesoscale Currents in the Northeastern South China Sea Revealed by Numerical Simulations. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015404.	2.6	39
22	A statistical study on the subthermocline submesoscale eddies in the northwestern <scp>P</scp>acific <scp>O</scp>cean based on <scp>A</scp>rgo data. Journal of Geophysical Research: Oceans, 2017, 122, 3586-3598.	2.6	36
23	Interannual modulation of eddy kinetic energy in the northeastern South China Sea as revealed by an eddyâ€resolving OGCM. Journal of Geophysical Research: Oceans, 2016, 121, 3190-3201.	2.6	33
24	Dissipation of mesoscale eddies and its contribution to mixing in the northern South China Sea. Scientific Reports, 2019, 9, 556.	3.3	32
25	Submesoscale Currents in the Subtropical Upper Ocean Observed by Long-Term High-Resolution Mooring Arrays. Journal of Physical Oceanography, 2021, 51, 187-206.	1.7	32
26	Latitudinal Distribution of Mixing Rate Caused by the M2 Internal Tide. Journal of Physical Oceanography, 2006, 36, 35-42.	1.7	30
27	Insight Into the Pico- and Nano-Phytoplankton Communities in the Deepest Biosphere, the Mariana Trench. Frontiers in Microbiology, 2018, 9, 2289.	3.5	30
28	Mooring observations of internal solitary waves in the deep basin west of Luzon Strait. Acta Oceanologica Sinica, 2014, 33, 82-89.	1.0	29
29	Biogeographic drivers of diazotrophs in the western Pacific Ocean. Limnology and Oceanography, 2019, 64, 1403-1421.	3.1	29
30	An anticyclonic eddy in the intermediate layer of the Luzon Strait in Autumn 2005. Journal of Oceanography, 2011, 67, 37-46.	1.7	26
31	Estimates ofM2internal tide energy fluxes along the margin of Northwestern Pacific using TOPEX/POSEIDON altimeter data. Geophysical Research Letters, 2003, 30, n/a-n/a.	4.0	23
32	Spatial Structure of Turbulent Mixing in the Northwestern Pacific Ocean. Journal of Physical Oceanography, 2014, 44, 2235-2247.	1.7	23
33	Deepwater overflow observed by three bottom-anchored moorings in the Bashi Channel. Deep-Sea Research Part I: Oceanographic Research Papers, 2016, 110, 65-74.	1.4	23
34	A quasi-synoptic interpretation of water mass distribution and circulation in the western North Pacific: I. Water mass distribution. Chinese Journal of Oceanology and Limnology, 2009, 27, 630-639.	0.7	21
35	A quasi-synoptic interpretation of water mass distribution and circulation in the western North Pacific II: Circulation. Chinese Journal of Oceanology and Limnology, 2009, 27, 955-965.	0.7	21
36	Estimation of eddy heat transport in the global ocean from Argo data. Acta Oceanologica Sinica, 2014, 33, 42-47.	1.0	21

#	Article	IF	Citations
37	Cruise Observation of Rossby Waves with Finite Wavelengths Propagating from the Pacific to the South China Sea. Journal of Physical Oceanography, 2016, 46, 2897-2913.	1.7	21
38	Elevated Diapycnal Mixing by a Subthermocline Eddy in the Western Equatorial Pacific. Geophysical Research Letters, 2019, 46, 2628-2636.	4.0	20
39	Variability in the Deep Overflow through the Heng-Chun Ridge of the Luzon Strait. Journal of Physical Oceanography, 2019, 49, 811-825.	1.7	19
40	Cascade of Internal Wave Energy Catalyzed by Eddyâ€Topography Interactions in the Deep South China Sea. Geophysical Research Letters, 2020, 47, e2019GL086510.	4.0	19
41	Signals of interannual and interdecadal variability of airâ€sea interaction in the basinâ€wide Indian Ocean. Atmosphere - Ocean, 2002, 40, 293-311.	1.6	18
42	A new method to estimate phase speed and vertical velocity of internal solitary waves in the South China Sea. Journal of Oceanography, 2012, 68, 761-769.	1.7	18
43	Seasonal Modulation of Submesoscale Kinetic Energy in the Upper Ocean of the Northeastern South China Sea. Journal of Geophysical Research: Oceans, 2021, 126, .	2.6	17
44	Observation of material fluxes through the Luzon Strait. Chinese Journal of Oceanology and Limnology, 2011, 29, 26-32.	0.7	16
45	Diversity and co-occurrence networks of picoeukaryotes as a tool for indicating underlying environmental heterogeneity in the Western Pacific Ocean. Marine Environmental Research, 2021, 170, 105376.	2.5	16
46	Temporal variability of internal solitary waves in the northern South China Sea revealed by long-term mooring observations. Progress in Oceanography, 2022, 201, 102716.	3.2	16
47	Observations of Deep Current at the Western Boundary of the Northern Philippine Basin. Scientific Reports, 2018, 8, 14334.	3.3	14
48	Temporal variability of diapycnal mixing in the northern South China Sea. Journal of Geophysical Research: Oceans, 2016, 121, 8840-8848.	2.6	13
49	Saline lakes on the Qinghai-Tibet Plateau harbor unique viral assemblages mediating microbial environmental adaption. IScience, 2021, 24, 103439.	4.1	13
50	Temporal variability of the current in the northeastern South China Sea revealed by 2.5-year-long moored observations. Journal of Oceanography, 2015, 71, 361-372.	1.7	12
51	Alcanivorax profundi sp. nov., isolated from deep seawater of the Mariana Trench. International Journal of Systematic and Evolutionary Microbiology, 2019, 69, 371-376.	1.7	12
52	Submesoscale Coherent Vortices Observed in the Northeastern South China Sea. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	11
53	Microstructure measurements and finescale parameterization assessment of turbulent mixing in the northern South China Sea. Journal of Oceanography, 2018, 74, 485-498.	1.7	10
54	An Examination of Circulation Characteristics in the Luzon Strait and the South China Sea Using Highâ€Resolution Regional Atmosphereâ€Ocean Coupled Models. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016253.	2.6	10

#	Article	IF	Citations
55	Waterâ€Mass Properties and Circulation in the Deep and Abyssal Philippine Sea. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016994.	2.6	9
56	Subsurface Mesoscale Eddies Observed in the Northeastern South China Sea: Dynamic Features and Water Mass Transport. Journal of Physical Oceanography, 2022, 52, 841-855.	1.7	9
57	Enhanced turbulent mixing induced by strong wind on the South China Sea shelf. Ocean Dynamics, 2014, 64, 781-796.	2.2	8
58	Intense Abyssal Flow Through the Yapâ€Mariana Junction in the Western North Pacific. Geophysical Research Letters, 2022, 49, .	4.0	8
59	The wavelet analysis of satellite sea surface temperature in the South China Sea and the Pacific Ocean. Science Bulletin, 2000, 45, 2187-2192.	1.7	7
60	The impact of the planetary Î²-effect on the vertical structure of a coherent vortex in the South China Sea. Ocean Dynamics, 2020, 70, 879-896.	2.2	7
61	Observation of near-inertial internal waves on the continental slope in the northwestern South China Sea. Journal of Ocean University of China, 2017, 16, 184-190.	1.2	6
62	Genomic Characteristics and Potential Metabolic Adaptations of Hadal Trench Roseobacter and Alteromonas Bacteria Based on Single-Cell Genomics Analyses. Frontiers in Microbiology, 2020, 11, 1739.	3.5	6
63	On Contributions of Multiscale Dynamic Processes to the Steric Height in the Northeastern South China Sea as Revealed by Moored Observations. Geophysical Research Letters, 2021, 48, e2021GL093829.	4.0	6
64	Internal Solitary Wave Activities near the Indonesian Submarine Wreck Site Inferred from Satellite Images. Journal of Marine Science and Engineering, 2022, 10, 197.	2.6	6
65	Dynamics of the Baroclinic Rossby Waves Regulating the Abyssal South China Sea. Journal of Physical Oceanography, 2022, 52, 873-887.	1.7	6
66	Comparison of Deep-Sea Picoeukaryotic Composition Estimated from the V4 and V9 Regions of 18S rRNA Gene with a Focus on the Hadal Zone of the Mariana Trench. Microbial Ecology, 2022, 83, 34-47.	2.8	5
67	Internal Lee Waves Generated by Shear Flow Over Smallâ€Scale Topography. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	5
68	Energy distributions of the large-scale horizontal currents caused by wind in the baroclinic ocean. Science in China Series D: Earth Sciences, 2005, 48, 2267-2275.	0.9	4
69	Examination of wind-wave interaction source term in WAVEWATCH III with tropical cyclone wind forcing. Acta Oceanologica Sinica, 2011, 30, 1-13.	1.0	4
70	Impact of eddies on ocean diapycnal mixing in Gulf Stream region. Science China Earth Sciences, 2014, 57, 1407-1414.	5.2	4
71	A darkâ€tolerant diatom (Chaetoceros) cultured from the deep sea. Journal of Phycology, 2022, 58, 208-218.	2.3	4
72	A modified method to estimate eddy diffusivity in the North Pacific using altimeter eddy statistics. Chinese Journal of Oceanology and Limnology, 2013, 31, 925-933.	0.7	3

#	Article	IF	Citations
73	Reply to: â€œQuestions remain about the biolability of dissolved black carbon along the combustion continuumâ€• Nature Communications, 2021, 12, 4282.	12.8	3
74	Nonâ€Local Energy Dissipation of Lee Waves and Turbulence in the South China Sea. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	3
75	Sea experiments of the Underway Conductivity-Temperature-Depth prototype made in China. Journal of Ocean University of China, 2009, 8, 409-415.	1.2	2
76	Turbulent dissipation and mixing in Prydz Bay. Chinese Journal of Oceanology and Limnology, 2013, 31, 445-453.	0.7	2
77	Shoaling of the internal solitary waves over the continental shelf of the northern South China Sea. Acta Oceanologica Sinica, 2015, 34, 35-42.	1.0	2
78	Circulation Driven by Multihump Turbulent Mixing Over a Seamount in the South China Sea. Frontiers in Marine Science, 2022, 8, .	2.5	2
79	Estimates of global M 2 internal tide energy fluxes using TOPEX/POSEIDON altimeter data. Chinese Journal of Oceanology and Limnology, 2009, 27, 129-134.	0.7	1
80	Formation mechanism of the moniliform seamounts outside the West Melanesian Trench. Geological Journal, 2018, 53, 1604-1610.	1.3	1
81	Impacts of subtidal motions and the earth rotation on modal characteristics of the semidiurnal internal tide. Journal of Oceanography, 2020, 76, 15-27.	1.7	1
82	A new inverse method and application to ocean data. Science in China Series D: Earth Sciences, 2001, 44, 490-497.	0.9	0