

# Jiwei Tian

## 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.

74  
papers

1,712  
citations

21  
h-index

40  
g-index

82  
ext. papers

2,288  
ext. citations

4  
avg, IF

4.84  
L-index

#	Paper	IF	Citations
74	Intense Abyssal Flow Through the Yap-Mariana Junction in the Western North Pacific. <i>Geophysical Research Letters</i> , <b>2022</b> , 49,	4.9	1
73	Internal Solitary Wave Activities near the Indonesian Submarine Wreck Site Inferred from Satellite Images. <i>Journal of Marine Science and Engineering</i> , <b>2022</b> , 10, 197	2.4	0
72	Temporal variability of internal solitary waves in the northern South China Sea revealed by long-term mooring observations. <i>Progress in Oceanography</i> , <b>2022</b> , 201, 102716	3.8	1
71	Saline lakes on the Qinghai-Tibet Plateau harbor unique viral assemblages mediating microbial environmental adaption.. <i>IScience</i> , <b>2021</b> , 24, 103439	6.1	1
70	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. <i>Microbial Ecology</i> , <b>2021</b> , 1	4.4	0
69	Water-Mass Properties and Circulation in the Deep and Abyssal Philippine Sea. <i>Journal of Geophysical Research: Oceans</i> , <b>2021</b> , 126, e2020JC016994	3.3	2
68	On Contributions of Multiscale Dynamic Processes to the Steric Height in the Northeastern South China Sea as Revealed by Moored Observations. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL093829	4.9	0
67	Reply to: "Questions remain about the biolability of dissolved black carbon along the combustion continuum". <i>Nature Communications</i> , <b>2021</b> , 12, 4282	17.4	1
66	Submesoscale Currents in the Subtropical Upper Ocean Observed by Long-Term High-Resolution Mooring Arrays. <i>Journal of Physical Oceanography</i> , <b>2021</b> , 51, 187-206	2.4	6
65	Diversity and co-occurrence networks of picoeukaryotes as a tool for indicating underlying environmental heterogeneity in the Western Pacific Ocean. <i>Marine Environmental Research</i> , <b>2021</b> , 170, 105376	3.3	3
64	Novel insights into the Thaumarchaeota in the deepest oceans: their metabolism and potential adaptation mechanisms. <i>Microbiome</i> , <b>2020</b> , 8, 78	16.6	20
63	An Examination of Circulation Characteristics in the Luzon Strait and the South China Sea Using High-Resolution Regional Atmosphere-Ocean Coupled Models. <i>Journal of Geophysical Research: Oceans</i> , <b>2020</b> , 125, e2020JC016253	3.3	5
62	The impact of the planetary Eeffect on the vertical structure of a coherent vortex in the South China Sea. <i>Ocean Dynamics</i> , <b>2020</b> , 70, 879-896	2.3	1
61	Cascade of Internal Wave Energy Catalyzed by Eddy-Topography Interactions in the Deep South China Sea. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL086510	4.9	6
60	Spatiotemporal Characteristics and Generation Mechanisms of Submesoscale Currents in the Northeastern South China Sea Revealed by Numerical Simulations. <i>Journal of Geophysical Research: Oceans</i> , <b>2020</b> , 125, e2019JC015404	3.3	14
59	Dissolved black carbon is not likely a significant refractory organic carbon pool in rivers and oceans. <i>Nature Communications</i> , <b>2020</b> , 11, 5051	17.4	15
58	Genomic Characteristics and Potential Metabolic Adaptations of Hadal Trench and Bacteria Based on Single-Cell Genomics Analyses. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 1739	5.7	1

57	Impacts of subtidal motions and the earth rotation on modal characteristics of the semidiurnal internal tide. <i>Journal of Oceanography</i> , <b>2020</b> , 76, 15-27	1.9	0
56	Dissipation of mesoscale eddies and its contribution to mixing in the northern South China Sea. <i>Scientific Reports</i> , <b>2019</b> , 9, 556	4.9	16
55	Biogeographic drivers of diazotrophs in the western Pacific Ocean. <i>Limnology and Oceanography</i> , <b>2019</b> , 64, 1403-1421	4.8	17
54	Variability in the Deep Overflow through the Heng-Chun Ridge of the Luzon Strait. <i>Journal of Physical Oceanography</i> , <b>2019</b> , 49, 811-825	2.4	11
53	Proliferation of hydrocarbon-degrading microbes at the bottom of the Mariana Trench. <i>Microbiome</i> , <b>2019</b> , 7, 47	16.6	66
52	<i>Alcanivorax profundus</i> sp. nov., isolated from deep seawater of the Mariana Trench. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2019</b> , 69, 371-376	2.2	6
51	Elevated Diapycnal Mixing by a Subthermocline Eddy in the Western Equatorial Pacific. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 2628-2636	4.9	7
50	Microstructure measurements and finescale parameterization assessment of turbulent mixing in the northern South China Sea. <i>Journal of Oceanography</i> , <b>2018</b> , 74, 485-498	1.9	4
49	Formation mechanism of the moniliform seamounts outside the West Melanesian Trench. <i>Geological Journal</i> , <b>2018</b> , 53, 1604-1610	1.7	0
48	Latitude-dependent finescale turbulent shear generations in the Pacific tropical-extratropical upper ocean. <i>Nature Communications</i> , <b>2018</b> , 9, 4086	17.4	21
47	Observations of Deep Current at the Western Boundary of the Northern Philippine Basin. <i>Scientific Reports</i> , <b>2018</b> , 8, 14334	4.9	8
46	Insight Into the Pico- and Nano-Phytoplankton Communities in the Deepest Biosphere, the Mariana Trench. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 2289	5.7	16
45	Elevated Mixing in the Periphery of Mesoscale Eddies in the South China Sea. <i>Journal of Physical Oceanography</i> , <b>2017</b> , 47, 895-907	2.4	36
44	Observed and simulated submesoscale vertical pump of an anticyclonic eddy in the South China Sea. <i>Scientific Reports</i> , <b>2017</b> , 7, 44011	4.9	37
43	Impacts of a Mesoscale Eddy Pair on Internal Solitary Waves in the Northern South China Sea revealed by Mooring Array Observations. <i>Journal of Physical Oceanography</i> , <b>2017</b> , 47, 1539-1554	2.4	30
42	Anticyclonic Eddy Sheddings from Kuroshio Loop and the Accompanying Cyclonic Eddy in the Northeastern South China Sea. <i>Journal of Physical Oceanography</i> , <b>2017</b> , 47, 1243-1259	2.4	76
41	A statistical study on the subthermocline submesoscale eddies in the northwestern Pacific Ocean based on Argo data. <i>Journal of Geophysical Research: Oceans</i> , <b>2017</b> , 122, 3586-3598	3.3	23
40	Observation of near-inertial internal waves on the continental slope in the northwestern South China Sea. <i>Journal of Ocean University of China</i> , <b>2017</b> , 16, 184-190	1	3

39	Deep Western Boundary Current in the South China Sea. <i>Scientific Reports</i> , <b>2017</b> , 7, 9303	4.9	23
38	Interannual modulation of eddy kinetic energy in the northeastern South China Sea as revealed by an eddy-resolving OGCM. <i>Journal of Geophysical Research: Oceans</i> , <b>2016</b> , 121, 3190-3201	3.3	21
37	Deepwater overflow observed by three bottom-anchored moorings in the Bashi Channel. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2016</b> , 110, 65-74	2.5	13
36	Three-Dimensional Distribution of Turbulent Mixing in the South China Sea. <i>Journal of Physical Oceanography</i> , <b>2016</b> , 46, 769-788	2.4	54
35	Temporal variability of diapycnal mixing in the northern South China Sea. <i>Journal of Geophysical Research: Oceans</i> , <b>2016</b> , 121, 8840-8848	3.3	8
34	Observed 3D Structure, Generation, and Dissipation of Oceanic Mesoscale Eddies in the South China Sea. <i>Scientific Reports</i> , <b>2016</b> , 6, 24349	4.9	125
33	Cruise Observation of Rossby Waves with Finite Wavelengths Propagating from the Pacific to the South China Sea. <i>Journal of Physical Oceanography</i> , <b>2016</b> , 46, 2897-2913	2.4	16
32	Temporal variability of the current in the northeastern South China Sea revealed by 2.5-year-long moored observations. <i>Journal of Oceanography</i> , <b>2015</b> , 71, 361-372	1.9	9
31	Spatial structure and temporal variability of the zonal flow in the Luzon Strait. <i>Journal of Geophysical Research: Oceans</i> , <b>2015</b> , 120, 759-776	3.3	49
30	Shoaling of the internal solitary waves over the continental shelf of the northern South China Sea. <i>Acta Oceanologica Sinica</i> , <b>2015</b> , 34, 35-42	1	2
29	Subthermocline eddies observed by rapid-sampling Argo floats in the subtropical northwestern Pacific Ocean in Spring 2014. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 6438-6445	4.9	24
28	Mooring observations of internal solitary waves in the deep basin west of Luzon Strait. <i>Acta Oceanologica Sinica</i> , <b>2014</b> , 33, 82-89	1	22
27	Estimation of eddy heat transport in the global ocean from Argo data. <i>Acta Oceanologica Sinica</i> , <b>2014</b> , 33, 42-47	1	14
26	Variability of the Deep-Water Overflow in the Luzon Strait*. <i>Journal of Physical Oceanography</i> , <b>2014</b> , 44, 2972-2986	2.4	52
25	Spatial Structure of Turbulent Mixing in the Northwestern Pacific Ocean. <i>Journal of Physical Oceanography</i> , <b>2014</b> , 44, 2235-2247	2.4	11
24	Enhanced turbulent mixing induced by strong wind on the South China Sea shelf. <i>Ocean Dynamics</i> , <b>2014</b> , 64, 781-796	2.3	6
23	Impact of eddies on ocean diapycnal mixing in Gulf Stream region. <i>Science China Earth Sciences</i> , <b>2014</b> , 57, 1407-1414	4.6	2
22	Deep water circulation in the Luzon Strait. <i>Journal of Geophysical Research: Oceans</i> , <b>2014</b> , 119, 790-804	3.3	81

21	Observed upper ocean response to typhoon Megi (2010) in the Northern South China Sea. <i>Journal of Geophysical Research: Oceans</i> , <b>2014</b> , 119, 3134-3157	3.3	88
20	Turbulent dissipation and mixing in Prydz Bay. <i>Chinese Journal of Oceanology and Limnology</i> , <b>2013</b> , 31, 445-453		2
19	A modified method to estimate eddy diffusivity in the North Pacific using altimeter eddy statistics. <i>Chinese Journal of Oceanology and Limnology</i> , <b>2013</b> , 31, 925-933		3
18	A mesoscale eddy pair southwest of Taiwan and its influence on deep circulation. <i>Journal of Geophysical Research: Oceans</i> , <b>2013</b> , 118, 6479-6494	3.3	100
17	A new method to estimate phase speed and vertical velocity of internal solitary waves in the South China Sea. <i>Journal of Oceanography</i> , <b>2012</b> , 68, 761-769	1.9	11
16	Advances in research on the deep South China Sea circulation. <i>Science Bulletin</i> , <b>2012</b> , 57, 3115-3120		33
15	An anticyclonic eddy in the intermediate layer of the Luzon Strait in Autumn 2005. <i>Journal of Oceanography</i> , <b>2011</b> , 67, 37-46	1.9	15
14	Observation of material fluxes through the Luzon Strait. <i>Chinese Journal of Oceanology and Limnology</i> , <b>2011</b> , 29, 26-32		15
13	Examination of wind-wave interaction source term in WAVEWATCH III with tropical cyclone wind forcing. <i>Acta Oceanologica Sinica</i> , <b>2011</b> , 30, 1-13	1	3
12	Enhanced Diapycnal Mixing in the South China Sea. <i>Journal of Physical Oceanography</i> , <b>2009</b> , 39, 3191-3203	3.4	146
11	Sea experiments of the Underway Conductivity-Temperature-Depth prototype made in China. <i>Journal of Ocean University of China</i> , <b>2009</b> , 8, 409-415	1	0
10	Estimates of global M2 internal tide energy fluxes using TOPEX/POSEIDON altimeter data. <i>Chinese Journal of Oceanology and Limnology</i> , <b>2009</b> , 27, 129-134		1
9	A quasi-synoptic interpretation of water mass distribution and circulation in the western North Pacific: I. Water mass distribution. <i>Chinese Journal of Oceanology and Limnology</i> , <b>2009</b> , 27, 630-639		17
8	A quasi-synoptic interpretation of water mass distribution and circulation in the western North Pacific II: Circulation. <i>Chinese Journal of Oceanology and Limnology</i> , <b>2009</b> , 27, 955-965		17
7	Observation of Luzon Strait transport. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	197
6	Latitudinal Distribution of Mixing Rate Caused by the M2 Internal Tide. <i>Journal of Physical Oceanography</i> , <b>2006</b> , 36, 35-42	2.4	25
5	Energy distributions of the large-scale horizontal currents caused by wind in the baroclinic ocean. <i>Science in China Series D: Earth Sciences</i> , <b>2005</b> , 48, 2267-2275		2
4	Estimates of M2 internal tide energy fluxes along the margin of Northwestern Pacific using TOPEX/POSEIDON altimeter data. <i>Geophysical Research Letters</i> , <b>2003</b> , 30, n/a-n/a	4.9	19

- 3 Signals of interannual and interdecadal variability of air-sea interaction in the basin-wide Indian Ocean. *Atmosphere - Ocean*, **2002**, 40, 293-311 1.5 16
- 2 A new inverse method and application to ocean data. *Science in China Series D: Earth Sciences*, **2001**, 44, 490-497
- 1 The wavelet analysis of satellite sea surface temperature in the South China Sea and the Pacific Ocean. *Science Bulletin*, **2000**, 45, 2187-2192 5