Lee-Lueng Fu

List of Publications by Year
in descending order

67 papers	4,309 citations	81900 39 h-index	110387 64 g-index
69 all docs	69 docs citations	69 times ranked	3183 citing authors

#	Article	IF	Citations
1	Reconstructing Fineâ€Scale Ocean Variability via Data Assimilation of the SWOT Preâ€Launch In Situ Observing System. Journal of Geophysical Research: Oceans, 2022, 127, e2021JC017362.	2.6	4
2	On the Development of SWOT In Situ Calibration/Validation for Short-Wavelength Ocean Topography. Journal of Atmospheric and Oceanic Technology, 2022, 39, 595-617.	1.3	7
3	Reconstructing Upper-Ocean Vertical Velocity Field from Sea Surface Height in the Presence of Unbalanced Motion. Journal of Physical Oceanography, 2020, 50, 55-79.	1.7	44
4	Increasing the Spaceâ€“Time Resolution of Mapped Sea Surface Height From Altimetry. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015878.	2.6	11
5	Patterns and Dynamics of SST Fronts in the California Current System. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015499.	2.6	14
6	Diagnosing Oceanâ€Waveâ€Turbulence Interactions From Space. Geophysical Research Letters, 2019, 46, 8933-8942.	4.0	8
7	An Observing System Simulation Experiment for Ocean State Estimation to Assess the Performance of the SWOT Mission: Part 1â€”A Twin Experiment. Journal of Geophysical Research: Oceans, 2019, 124, 4838-4855.	2.6	24
8	Satellite Altimetry Measurements of Sea Level in the Coastal Zone. Surveys in Geophysics, 2019, 40, 1319-1349.	4.6	102
9	Decomposition of the Multimodal Multidirectional M2 Internal Tide Field. Journal of Atmospheric and Oceanic Technology, 2019, 36, 1157-1173.	1.3	16
10	Global Observations of Fine-Scale Ocean Surface Topography With the Surface Water and Ocean Topography (SWOT) Mission. Frontiers in Marine Science, 2019, 6, .	2.5	204
11	On the Long-Wavelength Validation of the SWOT KaRIn Measurement. Journal of Atmospheric and Oceanic Technology, 2019, 36, 843-848.	1.3	14
12	Oceanâ€Scale Interactions From Space. Earth and Space Science, 2019, 6, 795-817.	2.6	90
13	On the Spatial Scales to be Resolved by the Surface Water and Ocean Topography Ka-Band Radar Interferometer. Journal of Atmospheric and Oceanic Technology, 2019, 36, 87-99.	1.3	50
14	An Observing System Simulation Experiment for the Calibration and Validation of the Surface Water Ocean Topography Sea Surface Height Measurement Using In Situ Platforms. Journal of Atmospheric and Oceanic Technology, 2018, 35, 281-297.	1.3	59
15	Seasonality in Transition Scale from Balanced to Unbalanced Motions in the World Ocean. Journal of Physical Oceanography, 2018, 48, 591-605.	1.7	132
16	Partitioning Ocean Motions Into Balanced Motions and Internal Gravity Waves: A Modeling Study in Anticipation of Future Space Missions. Journal of Geophysical Research: Oceans, 2018, 123, 8084-8105.	2.6	126
17	Engaging the User Community for Advancing Societal Applications of the Surface Water Ocean Topography Mission. Bulletin of the American Meteorological Society, 2017, 98, ES285-ES290.	3.3	9
18	Dynamic Mapping of Along-Track Ocean Altimetry: Method and Performance from Observing System Simulation Experiments. Journal of Atmospheric and Oceanic Technology, 2016, 33, 1691-1699.	1.3	32

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19	The Challenge of Using Future SWOT Data for Oceanic Field Reconstruction. Journal of Atmospheric and Oceanic Technology, 2016, 33, 119-126.	1.3	100
20	Reconstructability of Three-Dimensional Upper-Ocean Circulation from SWOT Sea Surface Height Measurements. Journal of Physical Oceanography, 2016, 46, 947-963.	1.7	54
21	Dynamic Interpolation of Sea Surface Height and Potential Applications for Future High-Resolution Altimetry Mapping. Journal of Atmospheric and Oceanic Technology, 2015, 32, 177-184.	1.3	78
22	The Effect of Atmospheric Water Vapor Content on the Performance of Future Wide-Swath Ocean Altimetry Measurement. Journal of Atmospheric and Oceanic Technology, 2014, 31, 1446-1454.	1.3	19
23	On the Transition from Profile Altimeter to Swath Altimeter for Observing Global Ocean Surface Topography. Journal of Atmospheric and Oceanic Technology, 2014, 31, 560-568.	1.3	158
24	The challenges in long-term altimetry calibration for addressing the problem of global sea level change. Advances in Space Research, 2013, 51, 1284-1300.	2.6	68
25	The Effects of Altimeter Instrument Noise on the Estimation of the Wavenumber Spectrum of Sea Surface Height. Journal of Physical Oceanography, 2012, 42, 2229-2233.	1.7	109
26	Global Variability of the Wavenumber Spectrum of Oceanic Mesoscale Turbulence. Journal of Physical Oceanography, 2011, 41, 802-809.	1.7	84
27	The Global Characteristics of the Wavenumber Spectrum of Ocean Surface Wind. Journal of Physical Oceanography, 2011, 41, 1576-1582.	1.7	10
28	Vorticity Structures in the Tropical Pacific from a Numerical Simulation. Journal of Physical Oceanography, 2011, 41, 1455-1464.	1.7	14
29	The Surface Water and Ocean Topography Mission: Observing Terrestrial Surface Water and Oceanic Submesoscale Eddies. Proceedings of the IEEE, 2010, 98, 766-779.	21.3	261
30	Eddy Dynamics From Satellite Altimetry. Oceanography, 2010, 23, 14-25.	1.0	225
31	OSTM/Jason-2: Assessment of the System Performances (Ocean Surface Topography Mission: OSTM). Marine Geodesy, 2010, 33, 26-52.	2.0	12
32	The OSTM/Jason-2 Mission. Marine Geodesy, 2010, 33, 4-25.	2.0	113
33	On the Reasons for the Formation and Variability of the Azores Current. Journal of Physical Oceanography, 2010, 40, 2197-2220.	1.7	45
34	Pattern and velocity of propagation of the global ocean eddy variability. Journal of Geophysical Research, 2009, 114, .	3.3	94
35	Observing Oceanic Submesoscale Processes From Space. Eos, 2008, 89, 488-488.	0.1	122
36	The role of horizontal impulses of the faulting continental slope in generating the 26 December 2004 tsunami. Ocean Modelling, 2008, 20, 362-379.	2.4	42

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37	Mechanisms of Interannual Variations of the Meridional Overturning Circulation of the North Atlantic Ocean. Journal of Physical Oceanography, 2008, 38, 467-480.	1.7	48
38	Intraseasonal Variability of the Equatorial Indian Ocean Observed from Sea Surface Height, Wind, and Temperature Data. Journal of Physical Oceanography, 2007, 37, 188-202.	1.7	51
39	Interaction of Mesoscale Variability with Large-Scale Waves in the Argentine Basin. Journal of Physical Oceanography, 2007, 37, 787-793.	1.7	24
40	Carl Wunsch Special Issue. Journal of Physical Oceanography, 2007, 37, 133-134.	1.7	0
41	Impact of Atmospheric Intraseasonal Oscillations on the Indian Ocean Dipole during the 1990s*. Journal of Physical Oceanography, 2006, 36, 670-690.	1.7	42
42	The 25-Day-Period Large-Scale Oscillations in the Argentine Basin Revisited. Journal of Physical Oceanography, 2005, 35, 1473-1479.	1.7	12
43	Latitudinal and Frequency Characteristics of the Westward Propagation of Large-Scale Oceanic Variability. Journal of Physical Oceanography, 2004, 34, 1907-1921.	1.7	25
44	The Jason-1 Mission Special Issue: Jason-1 Calibration/Validation. Marine Geodesy, 2003, 26, 131-146.	2.0	101
45	Jason-1: Assessment of the System Performances Special Issue: Jason-1 Calibration/Validation. Marine Geodesy, 2003, 26, 147-157.	2.0	10
46	Wind-Forced Intraseasonal Sea Level Variability of the Extratropical Oceans. Journal of Physical Oceanography, 2003, 33, 436-449.	1.7	45
47	Effects of the Indonesian Throughflow on the Pacific and Indian Oceans. Journal of Physical Oceanography, 2002, 32, 1404-1429.	1.7	171
48	Chapter 3.3 Ocean circulation and variability from satellite altimetry. International Geophysics, 2001, 77, 141-XXVIII.	0.6	7
49	A Comparison of Two Vertical-Mixing Schemes in a Pacific Ocean General Circulation Model. Journal of Climate, 2001, 14, 1377-1398.	3.2	56
50	25-Day Period Large-Scale Oscillations in the Argentine Basin Revealed by the TOPEX/Poseidon Altimeter. Journal of Physical Oceanography, 2001, 31, 506-517.	1.7	46
51	Using Data and Intermediate Coupled Models for Seasonal-to-Interannual Forecasts. Monthly Weather Review, 2000, 128, 3025-3049.	1.4	8
52	Sea surface height variations in the South China Sea from satellite altimetry. Oceanologica Acta: European Journal of Oceanology - Revue Europeene De Oceanologie, 1999, 22, 1-17.	0.7	161
53	The sensitivity of a global ocean model to wind forcing: A test using sea level and wind observations from satellites and operational wind analysis. Geophysical Research Letters, 1997, 24, 1783-1786.	4.0	11
54	Global Ocean Circulation from Satellite Altimetry and High-Resolution Computer Simulation. Bulletin of the American Meteorological Society, 1996, 77, 2625-2636.	3.3	131

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55	Application of satellite altimetry to ocean circulation studies: 1987â€“1994. Reviews of Geophysics, 1995, 33, 213.	23.0	33
56	Fitting Dynamic Models to the Geosat Sea Level Observations in the Tropical Pacific Ocean. Part II: A Linear, Wind-driven Model. Journal of Physical Oceanography, 1993, 23, 2162-2181.	1.7	60
57	Fitting Dynamic Models to the Geosat Sea Level Observations in the Tropical Pacific Ocean. Part I: A Free Wave Model. Journal of Physical Oceanography, 1991, 21, 798-809.	1.7	19
58	Modelled time-dependent flow in the Agulhas retroflection region as deduced from altimeter data assimilation. African Journal of Marine Science, 1991, 10, 407-427.	0.6	13
59	Observing oceanic mesoscale eddies from Geosat altimetry: Preliminary results. Geophysical Research Letters, 1989, 16, 457-460.	4.0	36
60	On Correcting Radial Orbit Errors for Altimetric Satellites Using Crossover Analysis. Journal of Atmospheric and Oceanic Technology, 1988, 5, 466-471.	1.3	7
61	Mass, Heat and Freshwater Fluxes in the South Indian Ocean. Journal of Physical Oceanography, 1986, 16, 1683-1693.	1.7	85
62	Temporal Variability of the Antarctic Circumpolar Current Observed from Satellite Altimetry. Science, 1984, 226, 343-346.	12.6	28
63	On the wave number spectrum of oceanic mesoscale variability observed by the SEASAT altimeter. Journal of Geophysical Research, 1983, 88, 4331-4341.	3.3	97
64	Recent progress in the application of satellite altimetry to observing the mesoscale variability and general circulation of the oceans. Reviews of Geophysics, 1983, 21, 1657-1666.	23.0	51
65	The General Circulation and Meridional Heat Transport of the Subtropical South Atlantic Determined by Inverse Methods. Journal of Physical Oceanography, 1981, 11, 1171-1193.	1.7	106
66	Observations and models of inertial waves in the deep ocean. Reviews of Geophysics, 1981, 19, 141-170.	23.0	179
67	Nonlinear energy and enstrophy transfers in a realistically stratified ocean. Dynamics of Atmospheres and Oceans, 1980, 4, 219-246.	1.8	86