

Lee-Lueng Fu

List of Publications by Year in descending order

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67
papers

4,309
citations

81900

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110387

64
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69
all docs

69
docs citations

69
times ranked

3183
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Eddy Dynamics From Satellite Altimetry. Oceanography, 2010, 23, 14-25.	1.0	225
3	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
4	Observations and models of inertial waves in the deep ocean. Reviews of Geophysics, 1981, 19, 141-170.	23.0	179
5	Effects of the Indonesian Throughflow on the Pacific and Indian Oceans. Journal of Physical Oceanography, 2002, 32, 1404-1429.	1.7	171
6	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
7	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
8	Seasonality in Transition Scale from Balanced to Unbalanced Motions in the World Ocean. Journal of Physical Oceanography, 2018, 48, 591-605.	1.7	132
9	Global Ocean Circulation from Satellite Altimetry and High-Resolution Computer Simulation. Bulletin of the American Meteorological Society, 1996, 77, 2625-2636.	3.3	131
10	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
11	Observing Oceanic Submesoscale Processes From Space. Eos, 2008, 89, 488-488.	0.1	122
12	The OSTM/Jason-2 Mission. Marine Geodesy, 2010, 33, 4-25.	2.0	113
13	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
14	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
15	Satellite Altimetry Measurements of Sea Level in the Coastal Zone. Surveys in Geophysics, 2019, 40, 1319-1349.	4.6	102
16	The Jason-1 Mission Special Issue: Jason-1 Calibration/Validation. Marine Geodesy, 2003, 26, 131-146.	2.0	101
17	The Challenge of Using Future SWOT Data for Oceanic Field Reconstruction. Journal of Atmospheric and Oceanic Technology, 2016, 33, 119-126.	1.3	100
18	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

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19	Pattern and velocity of propagation of the global ocean eddy variability. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	94
20	Oceanâ€Scale Interactions From Space. <i>Earth and Space Science</i> , 2019, 6, 795-817.	2.6	90
21	Nonlinear energy and enstrophy transfers in a realistically stratified ocean. <i>Dynamics of Atmospheres and Oceans</i> , 1980, 4, 219-246.	1.8	86
22	Mass, Heat and Freshwater Fluxes in the South Indian Ocean. <i>Journal of Physical Oceanography</i> , 1986, 16, 1683-1693.	1.7	85
23	Global Variability of the Wavenumber Spectrum of Oceanic Mesoscale Turbulence. <i>Journal of Physical Oceanography</i> , 2011, 41, 802-809.	1.7	84
24	Dynamic Interpolation of Sea Surface Height and Potential Applications for Future High-Resolution Altimetry Mapping. <i>Journal of Atmospheric and Oceanic Technology</i> , 2015, 32, 177-184.	1.3	78
25	The challenges in long-term altimetry calibration for addressing the problem of global sea level change. <i>Advances in Space Research</i> , 2013, 51, 1284-1300.	2.6	68
26	Fitting Dynamic Models to the Geosat Sea Level Observations in the Tropical Pacific Ocean. Part II: A Linear, Wind-driven Model. <i>Journal of Physical Oceanography</i> , 1993, 23, 2162-2181.	1.7	60
27	An Observing System Simulation Experiment for the Calibration and Validation of the Surface Water Ocean Topography Sea Surface Height Measurement Using In Situ Platforms. <i>Journal of Atmospheric and Oceanic Technology</i> , 2018, 35, 281-297.	1.3	59
28	A Comparison of Two Vertical-Mixing Schemes in a Pacific Ocean General Circulation Model. <i>Journal of Climate</i> , 2001, 14, 1377-1398.	3.2	56
29	Reconstructability of Three-Dimensional Upper-Ocean Circulation from SWOT Sea Surface Height Measurements. <i>Journal of Physical Oceanography</i> , 2016, 46, 947-963.	1.7	54
30	Recent progress in the application of satellite altimetry to observing the mesoscale variability and general circulation of the oceans. <i>Reviews of Geophysics</i> , 1983, 21, 1657-1666.	23.0	51
31	Intraseasonal Variability of the Equatorial Indian Ocean Observed from Sea Surface Height, Wind, and Temperature Data. <i>Journal of Physical Oceanography</i> , 2007, 37, 188-202.	1.7	51
32	On the Spatial Scales to be Resolved by the Surface Water and Ocean Topography Ka-Band Radar Interferometer. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019, 36, 87-99.	1.3	50
33	Mechanisms of Interannual Variations of the Meridional Overturning Circulation of the North Atlantic Ocean. <i>Journal of Physical Oceanography</i> , 2008, 38, 467-480.	1.7	48
34	25-Day Period Large-Scale Oscillations in the Argentine Basin Revealed by the TOPEX/Poseidon Altimeter. <i>Journal of Physical Oceanography</i> , 2001, 31, 506-517.	1.7	46
35	Wind-Forced Intraseasonal Sea Level Variability of the Extratropical Oceans. <i>Journal of Physical Oceanography</i> , 2003, 33, 436-449.	1.7	45
36	On the Reasons for the Formation and Variability of the Azores Current. <i>Journal of Physical Oceanography</i> , 2010, 40, 2197-2220.	1.7	45

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37	Reconstructing Upper-Ocean Vertical Velocity Field from Sea Surface Height in the Presence of Unbalanced Motion. <i>Journal of Physical Oceanography</i> , 2020, 50, 55-79.	1.7	44
38	Impact of Atmospheric Intraseasonal Oscillations on the Indian Ocean Dipole during the 1990s*. <i>Journal of Physical Oceanography</i> , 2006, 36, 670-690.	1.7	42
39	The role of horizontal impulses of the faulting continental slope in generating the 26 December 2004 tsunami. <i>Ocean Modelling</i> , 2008, 20, 362-379.	2.4	42
40	Observing oceanic mesoscale eddies from Geosat altimetry: Preliminary results. <i>Geophysical Research Letters</i> , 1989, 16, 457-460.	4.0	36
41	Application of satellite altimetry to ocean circulation studies: 1987-1994. <i>Reviews of Geophysics</i> , 1995, 33, 213.	23.0	33
42	Dynamic Mapping of Along-Track Ocean Altimetry: Method and Performance from Observing System Simulation Experiments. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016, 33, 1691-1699.	1.3	32
43	Temporal Variability of the Antarctic Circumpolar Current Observed from Satellite Altimetry. <i>Science</i> , 1984, 226, 343-346.	12.6	28
44	Latitudinal and Frequency Characteristics of the Westward Propagation of Large-Scale Oceanic Variability. <i>Journal of Physical Oceanography</i> , 2004, 34, 1907-1921.	1.7	25
45	Interaction of Mesoscale Variability with Large-Scale Waves in the Argentine Basin. <i>Journal of Physical Oceanography</i> , 2007, 37, 787-793.	1.7	24
46	An Observing System Simulation Experiment for Ocean State Estimation to Assess the Performance of the SWOT Mission: Part 1 - A Twin Experiment. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 4838-4855.	2.6	24
47	Fitting Dynamic Models to the Geosat Sea Level Observations in the Tropical Pacific Ocean. Part I: A Free Wave Model. <i>Journal of Physical Oceanography</i> , 1991, 21, 798-809.	1.7	19
48	The Effect of Atmospheric Water Vapor Content on the Performance of Future Wide-Swath Ocean Altimetry Measurement. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014, 31, 1446-1454.	1.3	19
49	Decomposition of the Multimodal Multidirectional M2 Internal Tide Field. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019, 36, 1157-1173.	1.3	16
50	Vorticity Structures in the Tropical Pacific from a Numerical Simulation. <i>Journal of Physical Oceanography</i> , 2011, 41, 1455-1464.	1.7	14
51	On the Long-Wavelength Validation of the SWOT KaRIn Measurement. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019, 36, 843-848.	1.3	14
52	Patterns and Dynamics of SST Fronts in the California Current System. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015499.	2.6	14
53	Modelled time-dependent flow in the Agulhas retroflection region as deduced from altimeter data assimilation. <i>African Journal of Marine Science</i> , 1991, 10, 407-427.	0.6	13
54	The 25-Day-Period Large-Scale Oscillations in the Argentine Basin Revisited. <i>Journal of Physical Oceanography</i> , 2005, 35, 1473-1479.	1.7	12

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55	OSTM/Jason-2: Assessment of the System Performances (Ocean Surface Topography Mission: OSTM). <i>Marine Geodesy</i> , 2010, 33, 26-52.	2.0	12
56	The sensitivity of a global ocean model to wind forcing: A test using sea level and wind observations from satellites and operational wind analysis. <i>Geophysical Research Letters</i> , 1997, 24, 1783-1786.	4.0	11
57	Increasing the Space-Time Resolution of Mapped Sea Surface Height From Altimetry. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015878.	2.6	11
58	Jason-1: Assessment of the System Performances Special Issue: Jason-1 Calibration/Validation. <i>Marine Geodesy</i> , 2003, 26, 147-157.	2.0	10
59	The Global Characteristics of the Wavenumber Spectrum of Ocean Surface Wind. <i>Journal of Physical Oceanography</i> , 2011, 41, 1576-1582.	1.7	10
60	Engaging the User Community for Advancing Societal Applications of the Surface Water Ocean Topography Mission. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, ES285-ES290.	3.3	9
61	Using Data and Intermediate Coupled Models for Seasonal-to-Interannual Forecasts. <i>Monthly Weather Review</i> , 2000, 128, 3025-3049.	1.4	8
62	Diagnosing Ocean-Wave-Turbulence Interactions From Space. <i>Geophysical Research Letters</i> , 2019, 46, 8933-8942.	4.0	8
63	On Correcting Radial Orbit Errors for Altimetric Satellites Using Crossover Analysis. <i>Journal of Atmospheric and Oceanic Technology</i> , 1988, 5, 466-471.	1.3	7
64	Chapter 3.3 Ocean circulation and variability from satellite altimetry. <i>International Geophysics</i> , 2001, 77, 141-XXVIII.	0.6	7
65	On the Development of SWOT In Situ Calibration/Validation for Short-Wavelength Ocean Topography. <i>Journal of Atmospheric and Oceanic Technology</i> , 2022, 39, 595-617.	1.3	7
66	Reconstructing Fine-Scale Ocean Variability via Data Assimilation of the SWOT Pre-Launch In Situ Observing System. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, e2021JC017362.	2.6	4
67	Carl Wunsch Special Issue. <i>Journal of Physical Oceanography</i> , 2007, 37, 133-134.	1.7	0