

Ren-Chieh Lien

List of Publications by Year in descending order

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66
papers

3,045
citations

126708

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161609

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66
docs citations

66
times ranked

2137
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional perspective on a convective instability and transition to turbulence in an internal solitary wave of depression shoaling over gentle slopes. <i>Environmental Fluid Mechanics</i> , 2023, 23, 1015-1035.	0.7	3
2	Two-Dimensional Wavenumber Spectra on the Horizontal Submesoscale and Vertical Finescale. <i>Journal of Physical Oceanography</i> , 2022, 52, 2009-2028.	0.7	1
3	Shear Instability and Turbulent Mixing in the Stratified Shear Flow Behind a Topographic Ridge at High Reynolds Number. <i>Frontiers in Marine Science</i> , 2022, 9, .	1.2	1
4	Near-inertial wave interactions and turbulence production in a Kuroshio anticyclonic eddy. <i>Journal of Physical Oceanography</i> , 2022, , .	0.7	0
5	The Mixed Layer Salinity Budget in the Central Equatorial Indian Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017280.	1.0	4
6	Long-Term Observations of Shoaling Internal Solitary Waves in the Northern South China Sea. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC017129.	1.0	13
7	Climate Process Team: Improvement of Ocean Component of NOAA Climate Forecast System Relevant to Madden-Julian Oscillation Simulations. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002658.	1.3	3
8	Simulation of Deep Cycle Turbulence by a Global Ocean General Circulation Model. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088384.	1.5	7
9	Formation of Recirculating Cores in Convectively Breaking Internal Solitary Waves of Depression Shoaling over Gentle Slopes in the South China Sea. <i>Journal of Physical Oceanography</i> , 2020, 50, 1137-1157.	0.7	14
10	Energy Sinks for Lee Waves in Shear Flow. <i>Journal of Physical Oceanography</i> , 2019, 49, 2851-2865.	0.7	31
11	Internal solitary waves with subsurface cores. <i>Journal of Fluid Mechanics</i> , 2019, 873, 1-17.	1.4	11
12	Small-Scale Potential Vorticity in the Upper-Ocean Thermocline. <i>Journal of Physical Oceanography</i> , 2019, 49, 1845-1872.	0.7	16
13	Scaling of Drag Coefficients Under Five Tropical Cyclones. <i>Geophysical Research Letters</i> , 2019, 46, 3349-3358.	1.5	21
14	Variations of Equatorial Shear, Stratification, and Turbulence Within a Tropical Instability Wave Cycle. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 1858-1875.	1.0	19
15	Estimates of Surface Waves Using Subsurface EM-APEX Floats under Typhoon Fanapi 2010. <i>Journal of Atmospheric and Oceanic Technology</i> , 2018, 35, 1053-1075.	0.5	5
16	Upper Ocean Response to the Atmospheric Cold Pools Associated With the Madden-Julian Oscillation. <i>Geophysical Research Letters</i> , 2018, 45, 5020-5029.	1.5	13
17	Turbulent mixing on sloping bottom of an energetic tidal channel. <i>Continental Shelf Research</i> , 2018, 166, 44-53.	0.9	7
18	Estimates of Surface Wind Stress and Drag Coefficients in Typhoon Megi. <i>Journal of Physical Oceanography</i> , 2017, 47, 545-565.	0.7	39

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19	Turbulent mixing within the Kuroshio in the Tokara Strait. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 7082-7094.	1.0	39
20	Remote Ocean Response to the Madden-Julian Oscillation during the DYNAMO Field Campaign: Impact on Somali Current System and the Seychelles-Chagos Thermocline Ridge. <i>Atmosphere</i> , 2017, 8, 171.	1.0	9
21	Combining Observations from Multiple Platforms across the Kuroshio Northeast of Luzon: A Highlight on PIES Data. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016, 33, 2185-2203.	0.5	7
22	Autonomous microstructure EM-APEX floats. <i>Methods in Oceanography</i> , 2016, 17, 282-295.	1.5	9
23	Trains of large Kelvin-Helmholtz billows observed in the Kuroshio above a seamount. <i>Geophysical Research Letters</i> , 2016, 43, 8654-8661.	1.5	36
24	Intensification of the subpolar front in the Sea of Japan during winter cyclones. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 2253-2267.	1.0	4
25	Ocean feedback to pulses of the Madden-Julian Oscillation in the equatorial Indian Ocean. <i>Nature Communications</i> , 2016, 7, 13203.	5.8	31
26	Impact of the Madden-Julian Oscillation on the Indonesian Throughflow in the Makassar Strait during the CINDY/DYNAMO Field Campaign. <i>Journal of Climate</i> , 2016, 29, 6085-6108.	1.2	11
27	Eddy-Kuroshio interaction processes revealed by mooring observations off Taiwan and Luzon. <i>Geophysical Research Letters</i> , 2015, 42, 8098-8105.	1.5	37
28	The LatMix Summer Campaign: Submesoscale Stirring in the Upper Ocean. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1257-1279.	1.7	88
29	The Kuroshio and Luzon Undercurrent East of Luzon Island. <i>Oceanography</i> , 2015, 28, 54-63.	0.5	41
30	The formation and fate of internal waves in the South China Sea. <i>Nature</i> , 2015, 521, 65-69.	13.7	487
31	Evolution of the Kuroshio Tropical Water from the Luzon Strait to the east of Taiwan. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014, 86, 68-81.	0.6	34
32	Large-Amplitude Internal Solitary Waves Observed in the Northern South China Sea: Properties and Energetics. <i>Journal of Physical Oceanography</i> , 2014, 44, 1095-1115.	0.7	118
33	Wind stress and near-surface shear in the equatorial Atlantic Ocean. <i>Geophysical Research Letters</i> , 2014, 41, 1226-1231.	1.5	26
34	Transition from partly standing to progressive internal tides in Monterey Submarine Canyon. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014, 104, 164-173.	0.6	31
35	Modulation of Kuroshio transport by mesoscale eddies at the Luzon Strait entrance. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 2129-2142.	1.0	101
36	The surface mixed layer heat budget from mooring observations in the central Indian Ocean during Madden-Julian Oscillation events. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 4638-4652.	1.0	43

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37	The variability of internal tides in the Northern South China Sea. <i>Journal of Oceanography</i> , 2013, 69, 619-630.	0.7	42
38	Effects of the diurnal cycle in solar radiation on the tropical Indian Ocean mixed layer variability during wintertime Madden-Julian Oscillations. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 4945-4964.	1.0	60
39	Internal tides on the East China Sea Continental Slope. <i>Journal of Marine Research</i> , 2013, 71, 151-185.	0.3	27
40	Observations of the cold wake of Typhoon Fanapi (2010). <i>Geophysical Research Letters</i> , 2013, 40, 316-321.	1.5	40
41	Internal Tides and Mixing in a Submarine Canyon with Time-Varying Stratification. <i>Journal of Physical Oceanography</i> , 2012, 42, 2121-2142.	0.7	41
42	Trapped Core Formation within a Shoaling Nonlinear Internal Wave. <i>Journal of Physical Oceanography</i> , 2012, 42, 511-525.	0.7	74
43	Nonlinear Internal Wave Properties Estimated with Moored ADCP Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 2011, 28, 802-815.	0.5	20
44	The Breaking and Scattering of the Internal Tide on a Continental Slope. <i>Journal of Physical Oceanography</i> , 2011, 41, 926-945.	0.7	146
45	From Luzon Strait to Dongsha Plateau: Stages in the Life of an Internal Wave. <i>Oceanography</i> , 2011, 24, 64-77.	0.5	63
46	Sources of baroclinic tidal energy in the Gaoping Submarine Canyon off southwestern Taiwan. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	16
47	Speed and Evolution of Nonlinear Internal Waves Transiting the South China Sea. <i>Journal of Physical Oceanography</i> , 2010, 40, 1338-1355.	0.7	188
48	Turbulent mixing and internal tides in Gaoping (Kaoping) Submarine Canyon, Taiwan. <i>Journal of Marine Systems</i> , 2009, 76, 383-396.	0.9	70
49	Numerical study of baroclinic tides in Luzon Strait. <i>Journal of Oceanography</i> , 2008, 64, 789-802.	0.7	156
50	Modulation of equatorial turbulence by tropical instability waves. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	37
51	A Composite View of Surface Signatures and Interior Properties of Nonlinear Internal Waves: Observations and Applications. <i>Journal of Atmospheric and Oceanic Technology</i> , 2008, 25, 1218-1227.	0.5	35
52	High-Frequency Internal Waves on the Oregon Continental Shelf. <i>Journal of Physical Oceanography</i> , 2007, 37, 1956-1967.	0.7	35
53	PILOT WHALES FOLLOW INTERNAL SOLITARY WAVES IN THE SOUTH CHINA SEA. <i>Marine Mammal Science</i> , 2007, 23, 193-196.	0.9	47
54	Assessing the west ridge of Luzon Strait as an internal wave mediator. <i>Journal of Oceanography</i> , 2007, 63, 897-911.	0.7	75

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55	Energy flux of nonlinear internal waves in northern South China Sea. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	71
56	Measurement of Turbulent Kinetic Energy Dissipation Rate with a Lagrangian Float. <i>Journal of Atmospheric and Oceanic Technology</i> , 2006, 23, 964-976.	0.5	39
57	Turbulence spectra and local similarity scaling in a strongly stratified oceanic bottom boundary layer. <i>Continental Shelf Research</i> , 2004, 24, 375-392.	0.9	16
58	The Kolmogorov constant for the Lagrangian velocity spectrum and structure function. <i>Physics of Fluids</i> , 2002, 14, 4456-4459.	1.6	64
59	Lagrangian analysis of a convective mixed layer. <i>Journal of Geophysical Research</i> , 2002, 107, 8-1.	3.3	9
60	Lagrangian Measurements of Waves and Turbulence in Stratified Flows. <i>Journal of Physical Oceanography</i> , 2000, 30, 641-655.	0.7	69
61	Turbulent properties in a homogeneous tidal bottom boundary layer. <i>Journal of Geophysical Research</i> , 1999, 104, 1245-1257.	3.3	91
62	An Electromagnetic Vorticity and Velocity Sensor for Observing Finescale Kinetic Fluctuations in the Ocean. <i>Journal of Atmospheric and Oceanic Technology</i> , 1999, 16, 1647-1667.	0.5	36
63	Lagrangian frequency spectra of vertical velocity and vorticity in high-Reynolds-number oceanic turbulence. <i>Journal of Fluid Mechanics</i> , 1998, 362, 177-198.	1.4	51
64	High-Frequency Internal Waves at 0°N, 140°W and Their Possible Relationship to Deep-Cycle Turbulence. <i>Journal of Physical Oceanography</i> , 1996, 26, 581-600.	0.7	34
65	Normal-Mode Decomposition of Small-Scale Oceanic Motions. <i>Journal of Physical Oceanography</i> , 1992, 22, 1583-1595.	0.7	19
66	Consistency relations for gravity and vortical modes in the ocean. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1992, 39, 1595-1612.	1.6	14