

Jody Klymak

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

5,820
citations

81743

39
h-index

74018

75
g-index

86
all docs

86
docs citations

86
times ranked

3259
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial and Temporal Origins of the La Perouse Low Oxygen Pool: A Combined Lagrangian Statistical Approach. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	1.0	4
2	Internal Tide Structure and Temporal Variability on the Reflective Continental Slope of Southeastern Tasmania. <i>Journal of Physical Oceanography</i> , 2021, 51, 611-631.	0.7	3
3	The Effect of Sea Ice on Tidal Propagation in the Kitikmeot Sea, Canadian Arctic Archipelago. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016786.	1.0	8
4	Parameterizing Nonpropagating Form Drag over Rough Bathymetry. <i>Journal of Physical Oceanography</i> , 2021, 51, 1489-1501.	0.7	18
5	Investigating the Formation of Submesoscale Structures along Mesoscale Fronts and Estimating Kinematic Quantities Using Lagrangian Drifters. <i>Fluids</i> , 2020, 5, 159.	0.8	12
6	Internal wave-driven mixing: governing processes and consequences for climate. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 606-621.	12.2	91
7	Surface Drift and Dispersion in a Multiply Connected Fjord System. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015425.	1.0	7
8	Observations of cross-frontal exchange associated with submesoscale features along the North Wall of the Gulf Stream. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2020, 163, 103342.	0.6	2
9	Enhanced mixing across the gyre boundary at the Gulf Stream front. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 17607-17614.	3.3	29
10	Improved Internal Wave Spectral Continuum in a Regional Ocean Model. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015974.	1.0	19
11	Data Availability Principles and Practice. <i>Journal of Physical Oceanography</i> , 2020, 50, 3377-3378.	0.7	1
12	OceanGliders: A Component of the Integrated GOOS. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	83
13	The Variability of Winds and Fluxes Observed Near Submesoscale Fronts. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 7756-7780.	1.0	23
14	Tidal Conversion and Dissipation at Steep Topography in a Channel Poleward of the Critical Latitude. <i>Journal of Physical Oceanography</i> , 2019, 49, 1269-1291.	0.7	10
15	Recent progress in modeling imbalance in the atmosphere and ocean. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	16
16	Connecting Process Models of Topographic Wave Drag to Global Eddy General Circulation Models. <i>Oceanography</i> , 2019, 32, 146-155.	0.5	8
17	Flow-Topography Interactions in the Samoan Passage. <i>Oceanography</i> , 2019, 32, 184-193.	0.5	4
18	A Spatial Geography of Abyssal Turbulent Mixing in the Samoan Passage. <i>Oceanography</i> , 2019, 32, 194-203.	0.5	8

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19	Ocean convergence and the dispersion of flotsam. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1162-1167.	3.3	183
20	Interaction of Superinertial Waves with Submesoscale Cyclonic Filaments in the North Wall of the Gulf Stream. Journal of Physical Oceanography, 2018, 48, 81-99.	0.7	14
21	Tidally Modulated Internal Hydraulic Flow and Energetics in the Central Canadian Arctic Archipelago. Journal of Geophysical Research: Oceans, 2018, 123, 5210-5229.	1.0	9
22	Nonpropagating Form Drag and Turbulence due to Stratified Flow over Large-Scale Abyssal Hill Topography. Journal of Physical Oceanography, 2018, 48, 2383-2395.	0.7	36
23	Water mass modification and mixing rates in a $1/12^\circ$ simulation of the Canadian Arctic Archipelago. Journal of Geophysical Research: Oceans, 2017, 122, 803-820.	1.0	21
24	Climate Process Team on Internal Wave-Driven Ocean Mixing. Bulletin of the American Meteorological Society, 2017, 98, 2429-2454.	1.7	235
25	Space-Time Scales of Shear in the North Pacific. Journal of Physical Oceanography, 2017, 47, 2455-2478.	0.7	32
26	Submesoscale streamers exchange water on the north wall of the Gulf Stream. Geophysical Research Letters, 2016, 43, 1226-1233.	1.5	33
27	Reflection of Linear Internal Tides from Realistic Topography: The Tasman Continental Slope. Journal of Physical Oceanography, 2016, 46, 3321-3337.	0.7	39
28	Warming and Weakening of the Abyssal Flow through Samoan Passage. Journal of Physical Oceanography, 2016, 46, 2389-2401.	0.7	24
29	Symmetric Instability, Inertial Oscillations, and Turbulence at the Gulf Stream Front. Journal of Physical Oceanography, 2016, 46, 197-217.	0.7	82
30	In situ O ₂ and N ₂ measurements detect deep-water renewal dynamics in seasonally-anoxic Saanich Inlet. Continental Shelf Research, 2015, 106, 107-117.	0.9	13
31	Along-isopycnal variability of spice in the North Pacific. Journal of Geophysical Research: Oceans, 2015, 120, 2287-2307.	1.0	32
32	Dissipation of Internal Wave Energy Generated on a Critical Slope. Journal of Physical Oceanography, 2015, 45, 2221-2238.	0.7	8
33	The LatMix Summer Campaign: Submesoscale Stirring in the Upper Ocean. Bulletin of the American Meteorological Society, 2015, 96, 1257-1279.	1.7	88
34	Outside influences on the water column of Cumberland Sound, Baffin Island. Journal of Geophysical Research: Oceans, 2015, 120, 5000-5018.	1.0	4
35	Barotropic tidal dynamics in a frictional subsidiary channel. Continental Shelf Research, 2015, 105, 101-111.	0.9	1
36	Pathways, Volume Transport, and Mixing of Abyssal Water in the Samoan Passage. Journal of Physical Oceanography, 2015, 45, 562-588.	0.7	33

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37	Submesoscale Water-Mass Spectra in the Sargasso Sea. <i>Journal of Physical Oceanography</i> , 2015, 45, 1325-1338.	0.7	26
38	Seasonality in submesoscale turbulence. <i>Nature Communications</i> , 2015, 6, 6862.	5.8	242
39	The formation and fate of internal waves in the South China Sea. <i>Nature</i> , 2015, 521, 65-69.	13.7	487
40	Breaking Internal Tides Keep the Ocean in Balance. <i>Eos</i> , 2015, 96, .	0.1	35
41	Three-Dimensional Double-Ridge Internal Tide Resonance in Luzon Strait. <i>Journal of Physical Oceanography</i> , 2014, 44, 850-869.	0.7	92
42	Turbulence and internal waves in Patricia Bay, Saanich Inlet, British Columbia. <i>Continental Shelf Research</i> , 2014, 85, 153-167.	0.9	12
43	Observations of the internal tide on the California continental margin near Monterey Bay. <i>Continental Shelf Research</i> , 2014, 82, 60-71.	0.9	8
44	Mode-2 hydraulic control of flow over a small ridge on a continental shelf. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 8093-8108.	1.0	5
45	Breaking internal lee waves at Kaena Ridge, Hawaii. <i>Geophysical Research Letters</i> , 2014, 41, 906-912.	1.5	25
46	Statistics of vertical vorticity, divergence, and strain in a developed submesoscale turbulence field. <i>Geophysical Research Letters</i> , 2013, 40, 4706-4711.	1.5	171
47	The Latitudinal Dependence of Shear and Mixing in the Pacific Transiting the Critical Latitude for PSI. <i>Journal of Physical Oceanography</i> , 2013, 43, 3-16.	0.7	46
48	Estimating Oceanic Turbulence Dissipation from Seismic Images. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 1767-1788.	0.5	43
49	Parametric Subharmonic Instability of the Internal Tide at 29°N. <i>Journal of Physical Oceanography</i> , 2013, 43, 17-28.	0.7	100
50	Parameterizing Surface and Internal Tide Scattering and Breaking on Supercritical Topography: The One- and Two-Ridge Cases. <i>Journal of Physical Oceanography</i> , 2013, 43, 1380-1397.	0.7	28
51	Turbulent mixing and hydraulic control of abyssal water in the Samoan Passage. <i>Geophysical Research Letters</i> , 2013, 40, 4668-4674.	1.5	49
52	Semidiurnal Baroclinic Wave Momentum Fluxes at Kaena Ridge, Hawaii. <i>Journal of Physical Oceanography</i> , 2012, 42, 1249-1269.	0.7	10
53	Annual Cycle and Depth Penetration of Wind-Generated Near-Inertial Internal Waves at Ocean Station Papa in the Northeast Pacific. <i>Journal of Physical Oceanography</i> , 2012, 42, 889-909.	0.7	117
54	Double-Ridge Internal Tide Interference and Its Effect on Dissipation in Luzon Strait. <i>Journal of Physical Oceanography</i> , 2012, 42, 1337-1356.	0.7	100

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55	The Direct Breaking of Internal Waves at Steep Topography. <i>Oceanography</i> , 2012, 25, 150-159.	0.5	28
56	Breaking Topographic Lee Waves in a Tidal Channel in Luzon Strait. <i>Oceanography</i> , 2012, 25, 160-165.	0.5	35
57	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
58	Tidal generation of large sub-mesoscale eddy dipoles. <i>Ocean Science</i> , 2011, 7, 487-502.	1.3	21
59	Energy Flux and Dissipation in Luzon Strait: Two Tales of Two Ridges. <i>Journal of Physical Oceanography</i> , 2011, 41, 2211-2222.	0.7	222
60	High-mode stationary waves in stratified flow over large obstacles. <i>Journal of Fluid Mechanics</i> , 2010, 644, 321-336.	1.4	61
61	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
62	A Simple Parameterization of Turbulent Tidal Mixing near Supercritical Topography. <i>Journal of Physical Oceanography</i> , 2010, 40, 2059-2074.	0.7	67
63	A simple mixing scheme for models that resolve breaking internal waves. <i>Ocean Modelling</i> , 2010, 33, 224-234.	1.0	65
64	Direct Breaking of the Internal Tide near Topography: Kaena Ridge, Hawaii. <i>Journal of Physical Oceanography</i> , 2008, 38, 380-399.	0.7	165
65	Internal Hydraulic Jumps and Overtuning Generated by Tidal Flow over a Tall Steep Ridge. <i>Journal of Physical Oceanography</i> , 2008, 38, 1949-1964.	0.7	131
66	Small-Scale Processes in the Coastal Ocean. <i>Oceanography</i> , 2008, 21, 22-33.	0.5	32
67	Oceanic Isopycnal Slope Spectra. Part II: Turbulence. <i>Journal of Physical Oceanography</i> , 2007, 37, 1232-1245.	0.7	66
68	Oceanic Isopycnal Slope Spectra. Part I: Internal Waves. <i>Journal of Physical Oceanography</i> , 2007, 37, 1215-1231.	0.7	37
69	Organization of stratification, turbulence, and veering in bottom Ekman layers. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	42
70	Internal waves across the Pacific. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	135
71	Energy Transport by Nonlinear Internal Waves. <i>Journal of Physical Oceanography</i> , 2007, 37, 1968-1988.	0.7	144
72	Nonlinear internal waves from the Luzon Strait. <i>Eos</i> , 2006, 87, 449.	0.1	42

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73	Prototypical solitons in the South China Sea. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	165
74	An Estimate of Tidal Energy Lost to Turbulence at the Hawaiian Ridge. <i>Journal of Physical Oceanography</i> , 2006, 36, 1148-1164.	0.7	187
75	A modified law-of-the-wall applied to oceanic bottom boundary layers. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	85
76	Response of the bottom boundary layer over a sloping shelf to variations in alongshore wind. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	50
77	Tidally Generated Turbulence over the Knight Inlet Sill. <i>Journal of Physical Oceanography</i> , 2004, 34, 1135-1151.	0.7	98
78	Convectively Driven Mixing in the Bottom Boundary Layer. <i>Journal of Physical Oceanography</i> , 2004, 34, 2189-2202.	0.7	52
79	Form Drag and Mixing Due to Tidal Flow past a Sharp Point. <i>Journal of Physical Oceanography</i> , 2004, 34, 1297-1312.	0.7	88
80	Internal solitary waves of elevation advancing on a shoaling shelf. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	210
81	From Tides to Mixing Along the Hawaiian Ridge. <i>Science</i> , 2003, 301, 355-357.	6.0	312
82	The Role of Upstream Waves and a Downstream Density Pool in the Growth of Lee Waves: Stratified Flow over the Knight Inlet Sill. <i>Journal of Physical Oceanography</i> , 2003, 33, 1446-1461.	0.7	29
83	Three-dimensional nature of flow near a sill. <i>Journal of Geophysical Research</i> , 2001, 106, 22295-22311.	3.3	70