

Jennifer A Mackinnon

List of Publications by Citations

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73
papers

3,138
citations

28
h-index

55
g-index

85
ext. papers

3,798
ext. citations

5
avg, IF

5.26
L-index

#	Paper	IF	Citations
73	The formation and fate of internal waves in the South China Sea. <i>Nature</i> , 2015 , 521, 65-9	50.4	298
72	Global Patterns of Diapycnal Mixing from Measurements of the Turbulent Dissipation Rate. <i>Journal of Physical Oceanography</i> , 2014 , 44, 1854-1872	2.4	280
71	Near-Inertial Internal Gravity Waves in the Ocean. <i>Annual Review of Marine Science</i> , 2016 , 8, 95-123	15.4	179
70	Spatial and temporal variability of global ocean mixing inferred from Argo profiles. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	174
69	Energy Flux and Dissipation in Luzon Strait: Two Tales of Two Ridges. <i>Journal of Physical Oceanography</i> , 2011 , 41, 2211-2222	2.4	168
68	Mixing on the Late-Summer New England Shelf: Bolibores, Shear, and Stratification. <i>Journal of Physical Oceanography</i> , 2003 , 33, 1476-1492	2.4	166
67	Subtropical catastrophe: Significant loss of low-mode tidal energy at 28.9°N. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	161
66	Climate Process Team on Internal Wave-Driven Ocean Mixing. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 2429-2454	6.1	128
65	Long-Range Propagation of the Semidiurnal Internal Tide from the Hawaiian Ridge. <i>Journal of Physical Oceanography</i> , 2010 , 40, 713-736	2.4	113
64	Internal waves across the Pacific. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	103
63	Shear and Baroclinic Energy Flux on the Summer New England Shelf. <i>Journal of Physical Oceanography</i> , 2003 , 33, 1462-1475	2.4	86
62	Parametric Subharmonic Instability of the Internal Tide at 29°N. <i>Journal of Physical Oceanography</i> , 2013 , 43, 17-28	2.4	83
61	Three-Dimensional Double-Ridge Internal Tide Resonance in Luzon Strait. <i>Journal of Physical Oceanography</i> , 2014 , 44, 850-869	2.4	72
60	Spring Mixing: Turbulence and Internal Waves during Restratification on the New England Shelf. <i>Journal of Physical Oceanography</i> , 2005 , 35, 2425-2443	2.4	64
59	Estimating the Mean Diapycnal Mixing Using a Finescale Strain Parameterization. <i>Journal of Physical Oceanography</i> , 2015 , 45, 1174-1188	2.4	59
58	A Spectral Model for Process Studies of Rotating, Density-Stratified Flows. <i>Journal of Atmospheric and Oceanic Technology</i> , 2004 , 21, 69-94	2	58
57	ASIRI: An Ocean-Atmosphere Initiative for Bay of Bengal. <i>Bulletin of the American Meteorological Society</i> , 2016 , 97, 1859-1884	6.1	55

56	Near-Inertial Waves on the New England Shelf: The Role of Evolving Stratification, Turbulent Dissipation, and Bottom Drag. <i>Journal of Physical Oceanography</i> , 2005 , 35, 2408-2424	2.4	54
55	Spatial and Temporal Patterns of Small-Scale Mixing in Drake Passage. <i>Journal of Physical Oceanography</i> , 2007 , 37, 572-592	2.4	48
54	Rapid generation of high-frequency internal waves beneath a wind and wave forced oceanic surface mixed layer. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	46
53	Large-scale impacts of the mesoscale environment on mixing from wind-driven internal waves. <i>Nature Geoscience</i> , 2018 , 11, 842-847	18.3	44
52	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	2.4	42
51	A new characterization of the turbulent diapycnal diffusivities of mass and momentum in the ocean. <i>Geophysical Research Letters</i> , 2016 , 43, 3370-3379	4.9	35
50	Strong transport and mixing of deep water through the Southwest Indian Ridge. <i>Nature Geoscience</i> , 2008 , 1, 755-758	18.3	32
49	Submesoscale Processes at Shallow Salinity Fronts in the Bay of Bengal: Observations during the Winter Monsoon. <i>Journal of Physical Oceanography</i> , 2018 , 48, 479-509	2.4	31
48	A Tale of Two Spicy Seas. <i>Oceanography</i> , 2016 , 29, 50-61	2.3	31
47	Adrift Upon a Salinity-Stratified Sea: A View of Upper-Ocean Processes in the Bay of Bengal During the Southwest Monsoon. <i>Oceanography</i> , 2016 , 29, 134-145	2.3	31
46	Reflection of Linear Internal Tides from Realistic Topography: The Tasman Continental Slope. <i>Journal of Physical Oceanography</i> , 2016 , 46, 3321-3337	2.4	31
45	Internal wave-driven mixing: governing processes and consequences for climate. <i>Nature Reviews Earth & Environment</i> , 2020 , 1, 606-621	30.2	27
44	Mixing to Monsoons: Air-Sea Interactions in the Bay of Bengal. <i>Eos</i> , 2014 , 95, 269-270	1.5	26
43	Computational study of molecular hydrogen in zeolite NaA. II. Density of rotational states and inelastic neutron scattering spectra. <i>Journal of Chemical Physics</i> , 2001 , 114, 10137-10150	3.9	26
42	Eddy Wake Generation From Broadband Currents Near Palau. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 4891-4903	3.3	23
41	Along-isopycnal variability of spice in the North Pacific. <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 2287-2307	3.3	21
40	An Assessment of Density-Based Finescale Methods for Estimating Diapycnal Diffusivity in the Southern Ocean. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013 , 30, 2647-2661	2	21
39	Space-time Scales of Shear in the North Pacific. <i>Journal of Physical Oceanography</i> , 2017 , 47, 2455-2478	2.4	20

38	Microstructure Observations of Turbulent Heat Fluxes in a Warm-Core Canada Basin Eddy. <i>Journal of Physical Oceanography</i> , 2018 , 48, 2397-2418	2.4	20
37	Internal Tide Convergence and Mixing in a Submarine Canyon. <i>Journal of Physical Oceanography</i> , 2017 , 47, 303-322	2.4	19
36	Tidally Driven Processes Leading to Near-Field Turbulence in a Channel at the Crest of the Mendocino Escarpment. <i>Journal of Physical Oceanography</i> , 2016 , 46, 1137-1155	2.4	19
35	Glider Observations of a Mesoscale Oceanic Island Wake. <i>Journal of Physical Oceanography</i> , 2019 , 49, 2217-2235	2.4	18
34	Ocean Turbulence and Mixing Around Sri Lanka and in Adjacent Waters of the Northern Bay of Bengal. <i>Oceanography</i> , 2016 , 29, 170-179	2.3	18
33	The Influence of Subinertial Internal Tides on Near-Topographic Turbulence at the Mendocino Ridge: Observations and Modeling. <i>Journal of Physical Oceanography</i> , 2017 , 47, 2139-2154	2.4	17
32	Energy and Momentum Lost to Wake Eddies and Lee Waves Generated by the North Equatorial Current and Tidal Flows at Peleliu, Palau. <i>Oceanography</i> , 2019 , 32, 110-125	2.3	16
31	Diapycnal Mixing Processes in the Ocean Interior. <i>International Geophysics</i> , 2013 , 103, 159-183		15
30	Stratified tidal flow over a tall ridge above and below the turning latitude. <i>Journal of Fluid Mechanics</i> , 2016 , 793, 933-957	3.7	13
29	Observations of Shoaling Nonlinear Internal Bores across the Central California Inner Shelf. <i>Journal of Physical Oceanography</i> , 2020 , 50, 111-132	2.4	12
28	Observations of the Tasman Sea Internal Tide Beam. <i>Journal of Physical Oceanography</i> , 2018 , 48, 1283-1297	2.4	11
27	FLEAT: A Multiscale Observational and Modeling Program to Understand How Topography Affects Flows in the Western North Pacific. <i>Oceanography</i> , 2019 , 32, 10-21	2.3	11
26	Understanding Vorticity Caused by Flow Passing an Island. <i>Oceanography</i> , 2019 , 32, 66-73	2.3	8
25	Island Wakes Observed from High-Frequency Current Mapping Radar. <i>Oceanography</i> , 2019 , 32, 92-101	2.3	8
24	Eddies, Topography, and the Abyssal Flow by the Kyushu-Palau Ridge Near Velasco Reef. <i>Oceanography</i> , 2019 , 32, 46-55	2.3	6
23	Moored Observations of Transport in the Solomon Sea. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 8166-8192	3.3	6
22	Topographic Form Drag on Tides and Low-Frequency Flow: Observations of Nonlinear Lee Waves over a Tall Submarine Ridge near Palau. <i>Journal of Physical Oceanography</i> , 2020 , 50, 1489-1507	2.4	5
21	Whither the Chukchi Slope Current?. <i>Journal of Physical Oceanography</i> , 2020 , 50, 1717-1732	2.4	5

20	A warm jet in a cold ocean. <i>Nature Communications</i> , 2021 , 12, 2418	17.4	5
19	The Inner-Shelf Dynamics Experiment. <i>Bulletin of the American Meteorological Society</i> , 2021 , 102, E1033-E1063	5.1	5
18	Microstructure Mixing Observations and Finescale Parameterizations in the Beaufort Sea. <i>Journal of Physical Oceanography</i> , 2021 , 51, 19-35	2.4	5
17	An Introduction to Ocean Turbulence. <i>Eos</i> , 2008 , 89, 547-548	1.5	4
16	Oceanic turbulence from a planktonic perspective. <i>Limnology and Oceanography</i> , 2022 , 67, 348-363	4.8	4
15	Near-Surface Ocean Kinetic Energy Spectra and Small-Scale Intermittency from Ship-Based ADCP Data in the Bay of Bengal. <i>Journal of Physical Oceanography</i> , 2020 , 50, 2037-2052	2.4	4
14	Alongshore Variability of Shoaling Internal Bores on the Inner Shelf. <i>Journal of Physical Oceanography</i> , 2020 , 50, 2965-2981	2.4	4
13	Multi-platform observations of small-scale lateral mixed layer variability in the northern Bay of Bengal. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019 , 168, 104629	2.3	3
12	How Spice is Stirred in the Bay of Bengal. <i>Journal of Physical Oceanography</i> , 2020 , 50, 2669-2688	2.4	3
11	Observations of Near-Inertial Surface Currents at Palau. <i>Oceanography</i> , 2019 , 32, 74-83	2.3	3
10	Bay of Bengal Intraseasonal Oscillations and the 2018 Monsoon Onset. <i>Bulletin of the American Meteorological Society</i> , 2021 , 1-44	6.1	3
9	Estimating Dissipation Rates Associated With Double Diffusion. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092779	4.9	3
8	Ngaraard Pinnacle, Palau: An Undersea Island in the Flow. <i>Oceanography</i> , 2019 , 32, 164-173	2.3	2
7	Wave-Driven Flow Along a Compact Marginal Ice Zone. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL090735	4.9	2
6	Mixing Rates and Bottom Drag in Bering Strait. <i>Journal of Physical Oceanography</i> , 2020 , 50, 809-825	2.4	1
5	Double Diffusion, Shear Instabilities, and Heat Impacts of a Pacific Summer Water Intrusion in the Beaufort Sea. <i>Journal of Physical Oceanography</i> , 2022 , 52, 189-203	2.4	1
4	Broadband Submesoscale Vorticity Generated by Flow around an Island. <i>Journal of Physical Oceanography</i> , 2021 , 51, 1301-1317	2.4	1
3	Internal Tide Structure and Temporal Variability on the Reflective Continental Slope of Southeastern Tasmania. <i>Journal of Physical Oceanography</i> , 2021 , 51, 611-631	2.4	1

- 2 Abyssal Heat Budget in the Southwest Pacific Basin. *Journal of Physical Oceanography*, **2021**, 2.4 1
- 1 Subtidal to Supertidal Variability of Reynolds Stresses in a Midlatitude Stratified Inner Shelf. *Journal of Physical Oceanography*, **2021**, 51, 1091-1111 2.4