Jennifer A Mackinnon

List of Publications by Year in Descending Order

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	Double Diffusion, Shear Instabilities, and Heat Impacts of a Pacific Summer Water Intrusion in the Beaufort Sea. *Journal of Physical Oceanography*, **2022**, 52, 189-203	2.4	1
72	Oceanic turbulence from a planktonic perspective. *Limnology and Oceanography*, **2022**, 67, 348-363	4.8	4
71	Subtidal to Supertidal Variability of Reynolds Stresses in a Midlatitude Stratified Inner Shelf. *Journal of Physical Oceanography*, **2021**, 51, 1091-1111	2.4	
70	A warm jet in a cold ocean. *Nature Communications*, **2021**, 12, 2418	17.4	5
69	Broadband Submesoscale Vorticity Generated by Flow around an Island. *Journal of Physical Oceanography*, **2021**, 51, 1301-1317	2.4	1
68	Bay of Bengal Intraseasonal Oscillations and the 2018 Monsoon Onset. *Bulletin of the American Meteorological Society*, **2021**, 1-44	6.1	3
67	The Inner-Shelf Dynamics Experiment. *Bulletin of the American Meteorological Society*, **2021**, 102, E1033-E1063	6.1	5
66	Wave-Driven Flow Along a Compact Marginal Ice Zone. *Geophysical Research Letters*, **2021**, 48, e2020GL090735	4.9	2
65	Internal Tide Structure and Temporal Variability on the Reflective Continental Slope of Southeastern Tasmania. *Journal of Physical Oceanography*, **2021**, 51, 611-631	2.4	1
64	Estimating Dissipation Rates Associated With Double Diffusion. *Geophysical Research Letters*, **2021**, 48, e2021GL092779	4.9	3
63	Abyssal Heat Budget in the Southwest Pacific Basin. *Journal of Physical Oceanography*, **2021**,	2.4	1
62	Microstructure Mixing Observations and Finescale Parameterizations in the Beaufort Sea. *Journal of Physical Oceanography*, **2021**, 51, 19-35	2.4	5
61	Mixing Rates and Bottom Drag in Bering Strait. *Journal of Physical Oceanography*, **2020**, 50, 809-825	2.4	1
60	How Spice is Stirred in the Bay of Bengal. *Journal of Physical Oceanography*, **2020**, 50, 2669-2688	2.4	3
59	Topographic Form Drag on Tides and Low-Frequency Flow: Observations of Nonlinear Lee Waves over a Tall Submarine Ridge near Palau. *Journal of Physical Oceanography*, **2020**, 50, 1489-1507	2.4	5
58	Whither the Chukchi Slope Current?. *Journal of Physical Oceanography*, **2020**, 50, 1717-1732	2.4	5
57	Near-Surface Ocean Kinetic Energy Spectra and Small-Scale Intermittency from Ship-Based ADCP Data in the Bay of Bengal. *Journal of Physical Oceanography*, **2020**, 50, 2037-2052	2.4	4

56	Alongshore Variability of Shoaling Internal Bores on the Inner Shelf. *Journal of Physical Oceanography*, **2020**, 50, 2965-2981	2.4	4
55	Observations of Shoaling Nonlinear Internal Bores across the Central California Inner Shelf. *Journal of Physical Oceanography*, **2020**, 50, 111-132	2.4	12
54	Internal wave-driven mixing: governing processes and consequences for climate. *Nature Reviews Earth & Environment*, **2020**, 1, 606-621	30.2	27
53	Glider Observations of a Mesoscale Oceanic Island Wake. *Journal of Physical Oceanography*, **2019**, 49, 2217-2235	2.4	18
52	Eddy Wake Generation From Broadband Currents Near Palau. *Journal of Geophysical Research: Oceans*, **2019**, 124, 4891-4903	3.3	23
51	Multi-platform observations of small-scale lateral mixed layer variability in the northern Bay of Bengal. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2019**, 168, 104629	2.3	3
50	FLEAT: A Multiscale Observational and Modeling Program to Understand How Topography Affects Flows in the Western North Pacific. *Oceanography*, **2019**, 32, 10-21	2.3	11
49	Understanding Vorticity Caused by Flow Passing an Island. *Oceanography*, **2019**, 32, 66-73	2.3	8
48	Island Wakes Observed from High-Frequency Current Mapping Radar. *Oceanography*, **2019**, 32, 92-101	2.3	8
47	Energy and Momentum Lost to Wake Eddies and Lee Waves Generated by the North Equatorial Current and Tidal Flows at Peleliu, Palau. *Oceanography*, **2019**, 32, 110-125	2.3	16
46	Ngaraard Pinnacle, Palau: An Undersea Island in the Flow. *Oceanography*, **2019**, 32, 164-173	2.3	2
45	Eddies, Topography, and the Abyssal Flow by the Kyushu-Palau Ridge Near Velasco Reef. *Oceanography*, **2019**, 32, 46-55	2.3	6
44	Observations of Near-Inertial Surface Currents at Palau. *Oceanography*, **2019**, 32, 74-83	2.3	3
43	Moored Observations of Transport in the Solomon Sea. *Journal of Geophysical Research: Oceans*, **2019**, 124, 8166-8192	3.3	6
42	Observations of the Tasman Sea Internal Tide Beam. *Journal of Physical Oceanography*, **2018**, 48, 1283-1297	2.4	11
41	Submesoscale Processes at Shallow Salinity Fronts in the Bay of Bengal: Observations during the Winter Monsoon. *Journal of Physical Oceanography*, **2018**, 48, 479-509	2.4	31
40	Microstructure Observations of Turbulent Heat Fluxes in a Warm-Core Canada Basin Eddy. *Journal of Physical Oceanography*, **2018**, 48, 2397-2418	2.4	20
39	Large-scale impacts of the mesoscale environment on mixing from wind-driven internal waves. *Nature Geoscience*, **2018**, 11, 842-847	18.3	44

38	Internal Tide Convergence and Mixing in a Submarine Canyon. *Journal of Physical Oceanography*, **2017**, 47, 303-322	2.4	19
37	Climate Process Team on Internal Wave-Driven Ocean Mixing. *Bulletin of the American Meteorological Society*, **2017**, 98, 2429-2454	6.1	128
36	Space□Time Scales of Shear in the North Pacific. *Journal of Physical Oceanography*, **2017**, 47, 2455-2478	2.4	20
35	The Influence of Subinertial Internal Tides on Near-Topographic Turbulence at the Mendocino Ridge: Observations and Modeling. *Journal of Physical Oceanography*, **2017**, 47, 2139-2154	2.4	17
34	Near-Inertial Internal Gravity Waves in the Ocean. *Annual Review of Marine Science*, **2016**, 8, 95-123	15.4	179
33	ASIRI: An Ocean□Atmosphere Initiative for Bay of Bengal. *Bulletin of the American Meteorological Society*, **2016**, 97, 1859-1884	6.1	55
32	Tidally Driven Processes Leading to Near-Field Turbulence in a Channel at the Crest of the Mendocino Escarpment. *Journal of Physical Oceanography*, **2016**, 46, 1137-1155	2.4	19
31	Ocean Turbulence and Mixing Around Sri Lanka and in Adjacent Waters of the Northern Bay of Bengal. *Oceanography*, **2016**, 29, 170-179	2.3	18
30	A Tale of Two Spicy Seas. *Oceanography*, **2016**, 29, 50-61	2.3	31
29	Adrift Upon a Salinity-Stratified Sea: A View of Upper-Ocean Processes in the Bay of Bengal During the Southwest Monsoon. *Oceanography*, **2016**, 29, 134-145	2.3	31
28	A new characterization of the turbulent diapycnal diffusivities of mass and momentum in the ocean. *Geophysical Research Letters*, **2016**, 43, 3370-3379	4.9	35
27	Stratified tidal flow over a tall ridge above and below the turning latitude. *Journal of Fluid Mechanics*, **2016**, 793, 933-957	3.7	13
26	Reflection of Linear Internal Tides from Realistic Topography: The Tasman Continental Slope. *Journal of Physical Oceanography*, **2016**, 46, 3321-3337	2.4	31
25	Estimating the Mean Diapycnal Mixing Using a Finescale Strain Parameterization. *Journal of Physical Oceanography*, **2015**, 45, 1174-1188	2.4	59
24	The formation and fate of internal waves in the South China Sea. *Nature*, **2015**, 521, 65-9	50.4	298
23	Along-isopycnal variability of spice in the North Pacific. *Journal of Geophysical Research: Oceans*, **2015**, 120, 2287-2307	3.3	21
22	Global Patterns of Diapycnal Mixing from Measurements of the Turbulent Dissipation Rate. *Journal of Physical Oceanography*, **2014**, 44, 1854-1872	2.4	280
21	Mixing to Monsoons: Air-Sea Interactions in the Bay of Bengal. *Eos*, **2014**, 95, 269-270	1.5	26

20	Three-Dimensional Double-Ridge Internal Tide Resonance in Luzon Strait. *Journal of Physical Oceanography*, **2014**, 44, 850-869	2.4	72
19	An Assessment of Density-Based Finescale Methods for Estimating Diapycnal Diffusivity in the Southern Ocean. *Journal of Atmospheric and Oceanic Technology*, **2013**, 30, 2647-2661	2	21
18	The Latitudinal Dependence of Shear and Mixing in the Pacific Transiting the Critical Latitude for PSI. *Journal of Physical Oceanography*, **2013**, 43, 3-16	2.4	42
17	Diapycnal Mixing Processes in the Ocean Interior. *International Geophysics*, **2013**, 103, 159-183		15
16	Parametric Subharmonic Instability of the Internal Tide at 29°N. *Journal of Physical Oceanography*, **2013**, 43, 17-28	2.4	83
15	Spatial and temporal variability of global ocean mixing inferred from Argo profiles. *Geophysical Research Letters*, **2012**, 39,	4.9	174
14	Energy Flux and Dissipation in Luzon Strait: Two Tales of Two Ridges. *Journal of Physical Oceanography*, **2011**, 41, 2211-2222	2.4	168
13	Long-Range Propagation of the Semidiurnal Internal Tide from the Hawaiian Ridge. *Journal of Physical Oceanography*, **2010**, 40, 713-736	2.4	113
12	Strong transport and mixing of deep water through the Southwest Indian Ridge. *Nature Geoscience*, **2008**, 1, 755-758	18.3	32
11	An Introduction to Ocean Turbulence. *Eos*, **2008**, 89, 547-548	1.5	4
10	Rapid generation of high-frequency internal waves beneath a wind and wave forced oceanic surface mixed layer. *Geophysical Research Letters*, **2008**, 35,	4.9	46
9	Internal waves across the Pacific. *Geophysical Research Letters*, **2007**, 34,	4.9	103
8	Spatial and Temporal Patterns of Small-Scale Mixing in Drake Passage. *Journal of Physical Oceanography*, **2007**, 37, 572-592	2.4	48
7	Subtropical catastrophe: Significant loss of low-mode tidal energy at 28.9° *Geophysical Research Letters*, **2005**, 32,	4.9	161
6	Near-Inertial Waves on the New England Shelf: The Role of Evolving Stratification, Turbulent Dissipation, and Bottom Drag. *Journal of Physical Oceanography*, **2005**, 35, 2408-2424	2.4	54
5	Spring Mixing: Turbulence and Internal Waves during Restratification on the New England Shelf. *Journal of Physical Oceanography*, **2005**, 35, 2425-2443	2.4	64
4	A Spectral Model for Process Studies of Rotating, Density-Stratified Flows. *Journal of Atmospheric and Oceanic Technology*, **2004**, 21, 69-94	2	58
3	Shear and Baroclinic Energy Flux on the Summer New England Shelf. *Journal of Physical Oceanography*, **2003**, 33, 1462-1475	2.4	86

2	Mixing on the Late-Summer New England Shelf—Solibores, Shear, and Stratification. *Journal of Physical Oceanography*, **2003**, 33, 1476-1492	2.4	166
1	Computational study of molecular hydrogen in zeolite NaA. II. Density of rotational states and inelastic neutron scattering spectra. *Journal of Chemical Physics*, **2001**, 114, 10137-10150	3.9	26