

# VERTICAL MIXING, ENERGY, AND THE GENERAL CIRC

Annual Review of Fluid Mechanics

36, 281-314

DOI: [10.1146/annurev.fluid.36.050802.122121](https://doi.org/10.1146/annurev.fluid.36.050802.122121)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Application of classical thermodynamic principles to the study of oceanic overturning circulation. Tellus, Series A: Dynamic Meteorology and Oceanography, 2004, 56, 371-386.	0.8	7
2	Energy Spectra of the Ocean's Internal Wave Field: Theory and Observations. Physical Review Letters, 2004, 92, 128501.	2.9	48
3	1 $\hat{a}$ model for long-time memory of the ocean surface temperature. Physical Review E, 2004, 70, 037301.	0.8	62
4	OCEAN SCIENCE: Enhanced: Deep Ocean Overturning--Then and Now. Science, 2004, 306, 1143-1144.	6.0	7
5	Wind ringing of the ocean in presence of mesoscale eddies. Geophysical Research Letters, 2004, 31, .	1.5	43
6	Convection driven by differential heating at a horizontal boundary. Journal of Fluid Mechanics, 2004, 516, 181-209.	1.4	93
7	VERTICAL MIXING, ENERGY, AND THE GENERAL CIRCULATION OF THE OCEANS. Annual Review of Fluid Mechanics, 2004, 36, 281-314.	10.8	1,179
8	Small and mesoscale processes and their impact on the large scale: an introduction. Deep-Sea Research Part II: Topical Studies in Oceanography, 2004, 51, 2883-2887.	0.6	9
9	Direct Evidence of an Oceanic Inverse Kinetic Energy Cascade from Satellite Altimetry. Journal of Physical Oceanography, 2005, 35, 1650-1666.	0.7	243
10	Nonnormal Amplification of the Thermohaline Circulation. Journal of Physical Oceanography, 2005, 35, 1593-1605.	0.7	31
11	Shear-induced convective mixing in bottom boundary layers on slopes. Limnology and Oceanography, 2005, 50, 1612-1619.	1.6	71
12	The Energetics of Ocean Heat Transport. Journal of Climate, 2005, 18, 2604-2616.	1.2	80
13	Destabilization of the thermohaline circulation by transient changes in the hydrological cycle. Climate Dynamics, 2005, 24, 253-262.	1.7	13
14	Scattering process of internal waves propagating over a subcritical strait slope onto a shelf region. Journal of Ocean University of China, 2005, 4, 377-382.	0.6	2
15	Boundary layers on beaches and submarine slopes. , 2005, , 291-320.		0
16	The benthic boundary layer. , 2005, , 213-227.		0
17	Heat, buoyancy, instability and turbulence. , 2005, , 1-43.		1
18	Energetics of wind-driven barotropic variability in the Southern Ocean. Journal of Marine Research, 2005, 63, 1101-1125.	0.3	5

#	ARTICLE	IF	CITATIONS
19	Stress-driven thermohaline loops. <i>Physics of Fluids</i> , 2005, 17, 066601.	1.6	4
20	Dynamic model of mesoscale eddies. Eddy parameterization for coarse resolution ocean circulation models. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2005, 99, 19-47.	0.4	5
21	Estimating turbulent dissipation rates from acoustic backscatter. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2005, 52, 2353-2365.	0.6	11
22	TURBULENT MIXING. <i>Annual Review of Fluid Mechanics</i> , 2005, 37, 329-356.	10.8	410
23	Upper-ocean vertical mixing in the Antarctic Polar Front Zone. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2005, 52, 1087-1108.	0.6	61
24	Rapid climate change and conditional instability of the glacial deep ocean from the thermobaric effect and geothermal heating. <i>Quaternary Science Reviews</i> , 2005, 24, 581-594.	1.4	67
26	An experimental study on thermal circulation driven by horizontal differential heating. <i>Journal of Fluid Mechanics</i> , 2005, 540, 49.	1.4	75
27	Sharp near-equatorial transitions in inertial motions and deep-ocean step-formation. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	4
28	Reply to comment by M. Watanabe et al. on "Improved global maps and 54-year history of wind-work on ocean inertial motions" Time aliasing in estimating the wind-induced inertial energy. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	0
29	Deposition of banded iron formations by anoxygenic phototrophic Fe(II)-oxidizing bacteria. <i>Geology</i> , 2005, 33, 865.	2.0	396
31	Global Abyssal Mixing Inferred from Lowered ADCP Shear and CTD Strain Profiles. <i>Journal of Physical Oceanography</i> , 2006, 36, 1553-1576.	0.7	395
32	Internal tide spatial variability off western Portugal detected by current meter observations. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	2
33	Antarctic bottom and lower circumpolar deep water circulation in the eastern Indian Ocean. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	38
34	Performance of a second-order moments advection scheme in an Ocean General Circulation Model. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	59
35	Weak influences of the Earth's magnetic field on ocean circulation. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	2
36	Time-dependent mixing in stratified Kelvin-Helmholtz billows: Experimental observations. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	27
37	Middepth equatorial tracer tongues in a model of the Atlantic Ocean. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	15
38	Models of oxic respiration, denitrification and sulfate reduction in zones of coastal upwelling. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 5753-5765.	1.6	91

#	ARTICLE	IF	CITATIONS
39	Comparison of deep-ocean finescale shear at two sites along the Mid-Atlantic Ridge. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 207-225.	0.6	1
40	Diapycnal mixing associated with an overflow in a deep submarine canyon. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 194-206.	0.6	17
41	An energy-diagnostics intercomparison of coupled ice-ocean Arctic models. Ocean Modelling, 2006, 11, 1-27.	1.0	7
42	Dynamical model of mesoscales in z-coordinates. Ocean Modelling, 2006, 11, 123-166.	1.0	21
43	A simple convective model of the global overturning circulation, including effects of entrainment into sinking regions. Ocean Modelling, 2006, 12, 46-79.	1.0	72
44	Modeling vertical motion at ocean fronts: Are nonhydrostatic effects relevant at submesoscales?. Ocean Modelling, 2006, 14, 222-240.	1.0	85
45	Energetics of the layer-thickness form drag based on an integral identity. Ocean Science, 2006, 2, 161-171.	1.3	14
46	Impacts of Localized Mixing and Topography on the Stationary Abyssal Circulation. Journal of Physical Oceanography, 2006, 36, 1660-1671.	0.7	12
47	The Ocean's Memory of the Atmosphere: Residence-Time and Ventilation-Rate Distributions of Water Masses. Journal of Physical Oceanography, 2006, 36, 1439-1456.	0.7	55
48	The Effect of Localized Mixing on the Ocean Circulation and Time-Dependent Climate Change. Journal of Physical Oceanography, 2006, 36, 140-160.	0.7	41
49	Gravitational Potential Energy Balance for the Thermal Circulation in a Model Ocean. Journal of Physical Oceanography, 2006, 36, 1420-1429.	0.7	7
50	Does the marine biosphere mix the ocean?. Journal of Marine Research, 2006, 64, 541-561.	0.3	111
51	The abyssal stratification and circulation deduced from the principle of maximal entropy production. Tellus, Series A: Dynamic Meteorology and Oceanography, 2006, 58, 392-403.	0.8	1
52	Symmetric and asymmetric modes of the thermohaline circulation. Tellus, Series A: Dynamic Meteorology and Oceanography, 2006, 58, 616-627.	0.8	5
53	Effects of warm water inflows on the dispersion of pollutants in small reservoirs. Journal of Environmental Management, 2006, 81, 210-222.	3.8	9
54	The relation of meridional pressure gradients to North Atlantic deep water volume transport in an ocean general circulation model. Climate Dynamics, 2006, 26, 781-799.	1.7	42
55	Mechanical energy input to the world oceans due to atmospheric loading. Science Bulletin, 2006, 51, 327-330.	1.7	7
56	Abrupt climate change: An alternative view. Quaternary Research, 2006, 65, 191-203.	1.0	170

#	ARTICLE	IF	CITATIONS
57	Nutrient irrigation of the North Atlantic. <i>Progress in Oceanography</i> , 2006, 70, 366-406.	1.5	91
58	The viscous decay of progressive interfacial waves. <i>Physics of Fluids</i> , 2006, 18, 026602.	1.6	14
59	Experimental investigation of internal tide generation by two-dimensional topography. , 2006, , .		0
60	Climate Variability in the Equatorial Pacific Ocean Induced by Decadal Variability of Mixing Coefficient. <i>Journal of Physical Oceanography</i> , 2007, 37, 1163-1176.	0.7	2
61	Impact of Channel Geometry and Rotation on the Trapping of Internal Tides. <i>Journal of Physical Oceanography</i> , 2007, 37, 2740-2763.	0.7	24
62	Spectral Energy Fluxes in Geostrophic Turbulence: Implications for Ocean Energetics. <i>Journal of Physical Oceanography</i> , 2007, 37, 673-688.	0.7	87
63	Seasonal and Spatial Variability of Near-Inertial Kinetic Energy from Historical Moored Velocity Records. <i>Journal of Physical Oceanography</i> , 2007, 37, 2022-2037.	0.7	86
64	Simulation of Subantarctic Mode and Antarctic Intermediate Waters in Climate Models. <i>Journal of Climate</i> , 2007, 20, 5061-5080.	1.2	49
65	Inferences and Observations of Turbulent Dissipation and Mixing in the Upper Ocean at the Hawaiian Ridge. <i>Journal of Physical Oceanography</i> , 2007, 37, 476-494.	0.7	14
66	Decadal Changes of Wind Stress over the Southern Ocean Associated with Antarctic Ozone Depletion. <i>Journal of Climate</i> , 2007, 20, 3395-3410.	1.2	49
67	Net Energy Dissipation Rates in the Tropical Ocean and ENSO Dynamics. <i>Journal of Climate</i> , 2007, 20, 1108-1117.	1.2	29
68	Can Paleoceanographic Tracers Constrain Meridional Circulation Rates?. <i>Journal of Physical Oceanography</i> , 2007, 37, 394-407.	0.7	32
69	Thermodynamic Analysis of Ocean Circulation. <i>Journal of Physical Oceanography</i> , 2007, 37, 2038-2052.	0.7	51
70	The Influence of Diapycnal Mixing on Quasi-Steady Overturning States in the Indian Ocean. <i>Journal of Physical Oceanography</i> , 2007, 37, 2290-2304.	0.7	9
71	Inertial oscillations and particle flux interactions in a marine protected area in Gulf of Naples. <i>Chemistry and Ecology</i> , 2007, 23, 177-190.	0.6	2
72	A Wind-Induced Thermohaline Circulation Hysteresis and Millennial Variability Regimes. <i>Journal of Physical Oceanography</i> , 2007, 37, 2446-2457.	0.7	10
73	Detection of wave fronts in the Indian Ocean from geostationary sunglint satellite imagery. <i>International Journal of Remote Sensing</i> , 2007, 28, 3953-3962.	1.3	5
74	Dissipation in hydraulic transitions in flows through abyssal channels. <i>Journal of Marine Research</i> , 2007, 65, 147-168.	0.3	5

#	ARTICLE	IF	CITATIONS
75	Diagnosing the energy cascade in a model of the North Atlantic. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	28
76	Response of a climate model to tidal mixing parameterization under present day and last glacial maximum conditions. <i>Ocean Modelling</i> , 2007, 19, 125-137.	1.0	29
77	Dense water formation in the Nordic Seas diagnosed from sea surface buoyancy fluxes. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2007, 54, 22-41.	0.6	67
78	On stochastic stability of regional ocean models to finite-amplitude perturbations of initial conditions. <i>Dynamics of Atmospheres and Oceans</i> , 2007, 43, 199-225.	0.7	10
79	Energy and pseudoenergy flux in the internal wave field generated by tidal flow over topography. <i>Continental Shelf Research</i> , 2007, 27, 1208-1232.	0.9	69
80	Internal Tide Generation in the Deep Ocean. <i>Annual Review of Fluid Mechanics</i> , 2007, 39, 57-87.	10.8	537
81	Nonlinear Dynamics in Geosciences. , 2007, , .		11
82	Buoyancy-driven flow and nature of vertical mixing in a zonally averaged model. <i>Geophysical Monograph Series</i> , 2007, , 33-52.	0.1	5
83	Projected strengthening of the Southern Ocean winds: Some implications for the deep ocean circulation. <i>Geophysical Monograph Series</i> , 2007, , 365-382.	0.1	6
84	Experimental study of internal gravity waves generated by supercritical topography. <i>Physics of Fluids</i> , 2007, 19, 096602.	1.6	46
85	On the driving processes of the Atlantic meridional overturning circulation. <i>Reviews of Geophysics</i> , 2007, 45, .	9.0	491
86	Effect of global ocean temperature change on deep ocean ventilation. <i>Paleoceanography</i> , 2007, 22, .	3.0	59
87	Atmospheric bridge, oceanic tunnel, and global climatic teleconnections. <i>Reviews of Geophysics</i> , 2007, 45, .	9.0	322
88	Boundary mixing in the thermocline of a large lake. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	64
89	Dynamical roles of mixed layer in regulating the meridional mass/heat fluxes. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	11
90	Barotropic Rossby wave radiation from a model Gulf Stream. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	4
91	Influence of (sub)mesoscale eddies on the soft tissue carbon pump. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	10
92	Instability and focusing of internal tides in the deep ocean. <i>Journal of Fluid Mechanics</i> , 2007, 588, 1-28.	1.4	30

#	ARTICLE	IF	CITATIONS
94	Internal gravity waves: parametric instability and deep ocean mixing. <i>Comptes Rendus - Mecanique</i> , 2007, 335, 665-678.	2.1	5
95	A tailored solver for bifurcation analysis of ocean-climate models. <i>Journal of Computational Physics</i> , 2007, 227, 654-679.	1.9	37
96	Observational evidence for an ocean heat pump induced by tropical cyclones. <i>Nature</i> , 2007, 447, 577-580.	13.7	226
97	Short-circuiting of the overturning circulation in the Antarctic Circumpolar Current. <i>Nature</i> , 2007, 447, 194-197.	13.7	81
98	Particle transport in horizontal convection: Implications for the "Sandström theorem". <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2007, 59, 141-154.	0.8	8
99	Experimental mathematics: Dependence of the stability properties of a two-dimensional model of the Atlantic ocean circulation on the boundary conditions. <i>Russian Journal of Mathematical Physics</i> , 2007, 14, 224-231.	0.4	9
100	Reconciling theories of a mechanically driven meridional overturning circulation with thermohaline forcing and multiple equilibria. <i>Climate Dynamics</i> , 2007, 29, 821-836.	1.7	60
101	Gravity-wave breaking: Linear and primary nonlinear dynamics. <i>Advances in Space Research</i> , 2007, 40, 719-733.	1.2	31
102	The generation of internal waves by tidal flow over continental shelf/slope topography. <i>Environmental Fluid Mechanics</i> , 2008, 8, 511-526.	0.7	11
103	Propagation of internal waves up continental slope and shelf. <i>Chinese Journal of Oceanology and Limnology</i> , 2008, 26, 450-458.	0.7	2
104	Revisiting effect of ocean diapycnal mixing on Atlantic meridional overturning circulation recovery in a freshwater perturbation simulation. <i>Advances in Atmospheric Sciences</i> , 2008, 25, 597-609.	1.9	7
105	The global thermohaline circulation in box and spectral low-order models. Part 1: single basin models. <i>Ocean Dynamics</i> , 2008, 58, 311-334.	0.9	2
106	On Sandström's inferences from his tank experiments: a hundred years later. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 60, 819.	0.8	21
107	Strong transport and mixing of deep water through the Southwest Indian Ridge. <i>Nature Geoscience</i> , 2008, 1, 755-758.	5.4	36
108	The nature and consequences of oceanic eddies. <i>Geophysical Monograph Series</i> , 2008, , 5-15.	0.1	73
109	Submesoscale processes and dynamics. <i>Geophysical Monograph Series</i> , 2008, , 17-38.	0.1	329
110	High-frequency winds and eddy-resolving models. <i>Geophysical Monograph Series</i> , 2008, , 83-100.	0.1	5
111	Horizontal Convection. <i>Annual Review of Fluid Mechanics</i> , 2008, 40, 185-208.	10.8	145

#	ARTICLE	IF	CITATIONS
112	Investigating tropical cycloneâ€climate feedbacks using the TRMM Microwave Imager and the Quick Scatterometer. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	46
113	Circulation in Lake Vostok: A laboratory analogue study. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	13
114	Surface windâ€stress threshold for glacial Atlantic overturning. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	32
115	Global tidal residual mean circulation: Does it affect a climate OGCM?. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	16
116	Intensified turbulent mixing in the boundary current system of southern Greenland. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	24
117	Deep ocean inertiaâ€gravity waves simulated in a highâ€resolution global coupled atmosphereâ€ocean GCM. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	35
118	Stokes driftâ€induced and direct wind energy inputs into the Ekman layer within the Antarctic Circumpolar Current. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	26
119	On the factors behind large Labrador Sea tides during the last glacial cycle and the potential implications for Heinrich events. <i>Paleoceanography</i> , 2008, 23, .	3.0	56
120	Density Stratification, Turbulence, but How Much Mixing?. <i>Annual Review of Fluid Mechanics</i> , 2008, 40, 169-184.	10.8	324
121	On the role of bottom roughness in overflows. <i>Ocean Modelling</i> , 2008, 20, 336-361.	1.0	41
122	Diapycnal mixing by meso-scale eddies. <i>Ocean Modelling</i> , 2008, 23, 113-120.	1.0	25
123	A global wave parameter database for geophysical applications. Part 1: Wave-currentâ€turbulence interaction parameters for the open ocean based on traditional parameterizations. <i>Ocean Modelling</i> , 2008, 25, 154-171.	1.0	115
124	Lunar nodal tide effects on variability of sea level, temperature, and salinity in the Faroe-Shetland Channel and the Barents Sea. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2008, 55, 1201-1217.	0.6	28
125	Internal tides and sediment dynamics in the deep seaâ€Evidence from radioactive <sup>234</sup> Th/ <sup>238</sup> U disequilibria. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2008, 55, 1727-1747.	0.6	36
126	Numerical studies of internal waves at a sill: Sensitivity to horizontal grid size and subgrid scale closure. <i>Continental Shelf Research</i> , 2008, 28, 1376-1393.	0.9	34
127	Vertical heat transport in eddying ocean models. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	55
128	Modelâ€predicted distribution of windâ€induced internal wave energy in the world's oceans. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	138
129	A Laboratory Model of Vertical Ocean Circulation Driven by Mixing. <i>Journal of Physical Oceanography</i> , 2008, 38, 1091-1106.	0.7	28



#	ARTICLE	IF	CITATIONS
130	Propagation of Wind Energy into the Deep Ocean through a Fully Turbulent Mesoscale Eddy Field. <i>Journal of Physical Oceanography</i> , 2008, 38, 2224-2241.	0.7	80
131	Control of Lower-Limb Overturning Circulation in the Southern Ocean by Diapycnal Mixing and Mesoscale Eddy Transfer. <i>Journal of Physical Oceanography</i> , 2008, 38, 2832-2845.	0.7	61
132	Tropical Cyclone-Induced Upper-Ocean Mixing and Climate: Application to Equable Climates. <i>Journal of Climate</i> , 2008, 21, 638-654.	1.2	135
133	Water-Mass Transformations in a Neutral Density Framework and the Key Role of Light Penetration. <i>Journal of Physical Oceanography</i> , 2008, 38, 1357-1376.	0.7	95
134	A Conjecture on the Role of Bottom-Enhanced Diapycnal Mixing in the Parameterization of Geostrophic Eddies. <i>Journal of Physical Oceanography</i> , 2008, 38, 1607-1613.	0.7	32
135	Atlantic Dominance of the Meridional Overturning Circulation. <i>Journal of Physical Oceanography</i> , 2008, 38, 435-450.	0.7	55
136	On the Strong Seasonal Currents in the Deep Ocean. <i>Journal of Climate</i> , 2008, 21, 5642-5656.	1.2	7
137	Inferring the Pattern of the Oceanic Meridional Transport from the Air-Sea Density Flux. <i>Journal of Physical Oceanography</i> , 2008, 38, 2722-2738.	0.7	6
138	The Role of Southern Ocean Surface Forcings and Mixing in the Global Conveyor. <i>Journal of Physical Oceanography</i> , 2008, 38, 1377-1400.	0.7	54
139	The Global Conveyor Belt from a Southern Ocean Perspective. <i>Journal of Physical Oceanography</i> , 2008, 38, 1401-1425.	0.7	52
140	Internal Hydraulic Jumps and Overturning Generated by Tidal Flow over a Tall Steep Ridge. <i>Journal of Physical Oceanography</i> , 2008, 38, 1949-1964.	0.7	131
141	Stommel's Box Model of Thermohaline Circulation Revisited: The Role of Mechanical Energy Supporting Mixing and the Wind-Driven Gyration. <i>Journal of Physical Oceanography</i> , 2008, 38, 909-917.	0.7	24
142	The Zonal Dimension of the Indian Ocean Meridional Overturning Circulation. <i>Journal of Physical Oceanography</i> , 2008, 38, 359-379.	0.7	12
143	On Quadratic Bottom Drag, Geostrophic Turbulence, and Oceanic Mesoscale Eddies. <i>Journal of Physical Oceanography</i> , 2008, 38, 84-103.	0.7	46
144	Boundary Mixing Associated with Tidal and Near-Inertial Internal Waves. <i>Journal of Physical Oceanography</i> , 2008, 38, 1238-1252.	0.7	8
145	Energetics of the Global Ocean: The Role of Layer-Thickness Form Drag. <i>Journal of Physical Oceanography</i> , 2008, 38, 1845-1869.	0.7	28
146	Very viscous horizontal convection. <i>Journal of Fluid Mechanics</i> , 2008, 611, 395-426.	1.4	42
147	Generation of internal tides by an oscillating background flow along a corrugated slope. <i>Physica Scripta</i> , 2008, 78, 065801.	1.2	21

#	ARTICLE	IF	CITATIONS
148	Inertiaâ€“Gravity Waves Emitted from Balanced Flow: Observations, Properties, and Consequences. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 3543-3556.	0.6	70
149	Resonant Generation of Internal Waves on a Model Continental Slope. <i>Physical Review Letters</i> , 2008, 100, 244504.	2.9	51
150	Mixing efficiency in controlled exchange flows. <i>Journal of Fluid Mechanics</i> , 2008, 600, 235-244.	1.4	19
151	Submesoscale physicalâ€“biogeochemical coupling across the Ligurian current (northwestern Tj ETQq1 1 0.784314 rgBT / Overlock 101	1.6	101
152	Continuously stratified nonlinear low-mode internal tides. <i>Journal of Marine Research</i> , 2008, 66, 299-323.	0.3	5
153	Geothermal heating, diapycnal mixing and the abyssal circulation. <i>Ocean Science</i> , 2009, 5, 203-217.	1.3	66
154	Estimates of Mixing. , 2009, , 522-532.		0
155	Energetics of Ocean Mixing. , 2009, , 513-521.		0
156	Ekman layers in the Southern Ocean: spectral models and observations, vertical viscosity and boundary layer depth. <i>Ocean Science</i> , 2009, 5, 115-139.	1.3	33
157	CONTINUUM CLIMATE VARIABILITY: LONG-TERM MEMORY, SCALING, AND 1/F-NOISE. <i>International Journal of Modern Physics B</i> , 2009, 23, 5403-5416.	1.0	51
158	Phytoplankton Competition for Nutrients and Light in a Stratified Water Column. <i>American Naturalist</i> , 2009, 174, 190-203.	1.0	91
159	Tidal flow over three-dimensional topography in a stratified fluid. <i>Physics of Fluids</i> , 2009, 21, .	1.6	37
160	The Impact of Abyssal Mixing Parameterizations in an Ocean General Circulation Model. <i>Journal of Physical Oceanography</i> , 2009, 39, 1756-1775.	0.7	191
161	Hybrid Rossby-Shelf Modes in a Laboratory Ocean. <i>Journal of Physical Oceanography</i> , 2009, 39, 2523-2542.	0.7	1
162	Lagrangian Analysis of the Meridional Overturning Circulation in an Idealized Ocean Basin. <i>Journal of Physical Oceanography</i> , 2009, 39, 2175-2193.	0.7	6
163	Saturation of the Internal Tides and Induced Mixing in the Abyssal Ocean. <i>Journal of Physical Oceanography</i> , 2009, 39, 2077-2096.	0.7	30
164	On the Climatic Impact of Wind Stress. <i>Journal of Physical Oceanography</i> , 2009, 39, 89-106.	0.7	16
165	New Altimetric Estimates of Mode-1 M2 Internal Tides in the Central North Pacific Ocean. <i>Journal of Physical Oceanography</i> , 2009, 39, 1669-1684.	0.7	79

#	ARTICLE	IF	CITATIONS
166	The Energetics of Global Thermohaline Circulation and Its Wind Enhancement. <i>Journal of Physical Oceanography</i> , 2009, 39, 1715-1728.	0.7	11
167	Energetics of Ocean Mixing. , 2009, , 261-270.		0
168	Near-Inertial Oscillations and the Damping of Midlatitude Gyres: A Modeling Study. <i>Journal of Physical Oceanography</i> , 2009, 39, 2338-2350.	0.7	24
169	Emergence of Animals from Heat Engines “ Part 1. Before the Snowball Earths. <i>Entropy</i> , 2009, 11, 463-512.	1.1	5
170	Impact of Horizontal Diffusion on the Nonlinear Stability of Thermohaline Circulation in a Modified Box Model. <i>Journal of Physical Oceanography</i> , 2009, 39, 798-805.	0.7	13
171	A prediction for the optimal stratification for turbulent mixing. <i>Journal of Fluid Mechanics</i> , 2009, 634, 487.	1.4	11
172	On the energetics of stratified turbulent mixing, irreversible thermodynamics, Boussinesq models and the ocean heat engine controversy. <i>Journal of Fluid Mechanics</i> , 2009, 638, 339-382.	1.4	82
173	The relationship between sea surface temperature anomaly and wind energy input in the Pacific Ocean. <i>Progress in Natural Science: Materials International</i> , 2009, 19, 1409-1412.	1.8	8
174	Numerical studies of large-amplitude internal waves shoaling and breaking at shelf slopes. <i>Ocean Dynamics</i> , 2009, 59, 937-952.	0.9	8
175	Numerical studies of wind forced internal waves with a nonhydrostatic model. <i>Ocean Dynamics</i> , 2009, 59, 1025-1041.	0.9	14
176	Numerical studies of flow over a sill: sensitivity of the non-hydrostatic effects to the grid size. <i>Ocean Dynamics</i> , 2009, 59, 1043-1059.	0.9	37
177	Rotating convection on the edge. <i>Nature</i> , 2009, 457, 270-271.	13.7	1
178	The yin and yang of nature. <i>Nature</i> , 2009, 457, 271-272.	13.7	29
179	3D Simulations to investigate initial condition effects on the growth of Rayleigh–Taylor mixing. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 3906-3917.	2.5	59
180	A model study of tide- and wind-induced mixing in the Columbia River Estuary and plume. <i>Continental Shelf Research</i> , 2009, 29, 278-291.	0.9	146
181	An update on the wind power input to the surface geostrophic flow of the World Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009, 56, 295-304.	0.6	82
182	The importance of tides for sediment dynamics in the deep sea—Evidence from the particulate-matter tracer <sup>234</sup> Th in deep-sea environments with different tidal forcing. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009, 56, 1182-1202.	0.6	16
183	Assessing eddy heat flux and its parameterization: A wavenumber perspective from a 1/10° ocean simulation. <i>Ocean Modelling</i> , 2009, 29, 248-260.	1.0	23

#	ARTICLE	IF	CITATIONS
184	A spectral barotropic model of the wind-driven world ocean. <i>Ocean Modelling</i> , 2009, 30, 310-322.	1.0	4
185	The organic carbon pump in the Atlantic. <i>Journal of Sea Research</i> , 2009, 62, 179-187.	0.6	5
186	Transport of momentum and scalar in turbulent flows with anisotropic dispersive waves. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	16
187	Tidal mixing and the Meridional Overturning Circulation from the Last Glacial Maximum. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	39
188	Available Potential Energy and Irreversible Mixing in the Meridional Overturning Circulation. <i>Journal of Physical Oceanography</i> , 2009, 39, 3130-3146.	0.7	85
189	Ocean Circulation Kinetic Energy: Reservoirs, Sources, and Sinks. <i>Annual Review of Fluid Mechanics</i> , 2009, 41, 253-282.	10.8	685
190	Ocean circulation. <i>Geophysical Monograph Series</i> , 2009, , 99-118.	0.1	4
191	Impact of latitudinal variations in vertical diffusivity on climate simulations. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	87
192	Estimates of bottom flows and bottom boundary layer dissipation of the oceanic general circulation from global high-resolution models. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	64
193	Effects of topography on the cumulative mixing efficiency in exchange flows. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	13
194	Estimates of wind energy input to the Ekman layer in the Southern Ocean from surface drifter data. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	19
195	A remote effect of geothermal heat on the global thermohaline circulation. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	14
196	Ocean Circulation: Meridional Overturning Circulation. , 2009, , 126-131.		0
197	Ageostrophic instabilities of fronts in a channel in a stratified rotating fluid. <i>Journal of Fluid Mechanics</i> , 2009, 627, 485-507.	1.4	24
198	A generalized Osborn-Cox relation. <i>Journal of Fluid Mechanics</i> , 2009, 632, 457-474.	1.4	6
200	Multi-objective optimization of GENIE Earth system models. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 2623-2633.	1.6	14
201	Efficiency of Mixing Forced by Unsteady Shear Flow. <i>Journal of Physical Oceanography</i> , 2009, 39, 1150-1166.	0.7	17
202	The Sun's Role in Regulating the Earth's Climate Dynamics. <i>Energy and Environment</i> , 2009, 20, 25-73.	2.7	1

#	ARTICLE	IF	CITATIONS
203	Observations of Tidal Internal Wave Beams at Kauai Channel, Hawaii. <i>Journal of Physical Oceanography</i> , 2009, 39, 421-436.	0.7	50
204	Rate of Work Done by Atmospheric Pressure on the Ocean General Circulation and Tides. <i>Journal of Physical Oceanography</i> , 2009, 39, 458-464.	0.7	5
205	Experiments on the generation of internal waves over continental shelf topography. <i>Journal of Fluid Mechanics</i> , 2010, 663, 385-400.	1.4	26
206	Non-invasive turbulent mixing across a density interface in a turbulent Taylor-Couette flow. <i>Journal of Fluid Mechanics</i> , 2010, 663, 347-357.	1.4	22
207	Wave-Vortex Interactions. <i>Lecture Notes in Physics</i> , 2010, , 139-187.	0.3	0
208	The intrinsic depth of horizontal convection. <i>Chinese Journal of Oceanology and Limnology</i> , 2010, 28, 643-648.	0.7	1
209	The role of meridional density differences for a wind-driven overturning circulation. <i>Climate Dynamics</i> , 2010, 34, 547-556.	1.7	29
210	Variations of vertical velocity in the deep oceans simulated by a 1/10° OGCM. <i>Ocean Dynamics</i> , 2010, 60, 759-770.	0.9	5
211	Geophysical flows with anisotropic turbulence and dispersive waves: flows with stable stratification. <i>Ocean Dynamics</i> , 2010, 60, 1319-1337.	0.9	28
212	Helium isotopic constraints on simulated ocean circulations: implications for abyssal theories. <i>Environmental Fluid Mechanics</i> , 2010, 10, 257-273.	0.7	11
213	Synoptic mapping of internal-wave motions and surface currents near the Lombok Strait using the Along-Track Stereo Sun Glitter technique. <i>Remote Sensing of Environment</i> , 2010, 114, 1765-1776.	4.6	19
214	The effect of mechanical stirring on horizontal convection. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 62, 138.	0.8	18
215	Tropical cyclones in the mix. <i>Nature</i> , 2010, 463, 1032-1033.	13.7	14
216	Sediment reactions defy dogma. <i>Nature</i> , 2010, 463, 1033-1034.	13.7	20
217	Significant sink of ocean-eddy energy near western boundaries. <i>Nature Geoscience</i> , 2010, 3, 608-612.	5.4	151
218	Numerical simulations of the local generation of internal solitary waves in the Bay of Biscay. <i>Nonlinear Processes in Geophysics</i> , 2010, 17, 575-584.	0.6	15
219	Tropical Cyclones, Oceanic Circulation and Climate. , 2010, , .		0
220	Monitoring Ocean Currents with Satellite Sensors. <i>Oceanography</i> , 2010, 23, 94-103.	0.5	98

#	ARTICLE	IF	CITATIONS
221	Vertical mixing and coherent anticyclones in the ocean: the role of stratification. <i>Nonlinear Processes in Geophysics</i> , 2010, 17, 37-47.	0.6	14
222	Influence of the Nonlinear Equation of State on Global Estimates of Diapycnal Advection and Diffusion. <i>Journal of Physical Oceanography</i> , 2010, 40, 1690-1709.	0.7	85
223	Paleophysical Oceanography with an Emphasis on Transport Rates. <i>Annual Review of Marine Science</i> , 2010, 2, 1-34.	5.1	38
224	On a Simple Empirical Parameterization of Topography-Catalyzed Diapycnal Mixing in the Abyssal Ocean. <i>Journal of Physical Oceanography</i> , 2010, 40, 487-508.	0.7	46
225	Sustained, Full-Water-Column Observations of Internal Waves and Mixing near Mendocino Escarpment. <i>Journal of Physical Oceanography</i> , 2010, 40, 2643-2660.	0.7	66
226	The axisymmetric collapse of a mixed patch and internal wave generation in uniformly stratified fluid. <i>Physics of Fluids</i> , 2010, 22, 106602.	1.6	4
227	Mesoscale Eddy-Internal Wave Coupling. Part II: Energetics and Results from PolyMode. <i>Journal of Physical Oceanography</i> , 2010, 40, 789-801.	0.7	81
228	Breaking internal waves and turbulent dissipation. <i>Journal of Marine Research</i> , 2010, 68, 851-880.	0.3	12
229	Internal waves and the generation of turbulence in the thermocline of a large lake. <i>Limnology and Oceanography</i> , 2010, 55, 2353-2365.	1.6	54
230	On the stability of internal waves. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 495205.	0.7	8
231	Transport by an intrusion generated by boundary mixing in a lake. <i>Water Resources Research</i> , 2010, 46, .	1.7	26
232	An almost-free barotropic mode in the Australian-Antarctic Basin. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	9
233	Role of vertical migration in biogenic ocean mixing. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	26
234	Reduction of the usable wind-work on the general circulation by forced symmetric instability. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	87
235	Entropy versus APE production: On the buoyancy power input in the oceans energy cycle. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	21
236	Seasonal variation of turbulent diapycnal mixing in the northwestern Pacific stirred by wind stress. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	27
237	What is the skill of ocean tracers in reducing uncertainties about ocean diapycnal mixing and projections of the Atlantic Meridional Overturning Circulation?. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	28
238	Export productivity and carbonate accumulation in the Pacific Basin at the transition from a greenhouse to icehouse climate (late Eocene to early Oligocene). <i>Paleoceanography</i> , 2010, 25, .	3.0	26

#	ARTICLE	IF	CITATIONS
239	A box model test of the freshwater forcing hypothesis of abrupt climate change and the physics governing ocean stability. <i>Paleoceanography</i> , 2010, 25, n/a-n/a.	3.0	10
240	Dynamics of the semi-diurnal and quarter-diurnal internal tides in the Bay of Biscay. Part 2: Baroclinic tides. <i>Continental Shelf Research</i> , 2010, 30, 253-269.	0.9	27
241	Experimental observation of strong mixing due to internal wave focusing over sloping terrain. <i>Dynamics of Atmospheres and Oceans</i> , 2010, 50, 16-34.	0.7	13
242	Effects of rotation on self-resonant internal gravity waves in the ocean. <i>Ocean Modelling</i> , 2010, 31, 80-87.	1.0	10
243	Identifying and quantifying nonconservative energy production/destruction terms in hydrostatic Boussinesq primitive equation models. <i>Ocean Modelling</i> , 2010, 34, 125-136.	1.0	10
244	Diagnostics of diapycnal diffusivity in z-level ocean models part I: 1-Dimensional case studies. <i>Ocean Modelling</i> , 2010, 35, 173-186.	1.0	17
245	On Turbulence Production by Swimming Marine Organisms in the Open Ocean and Coastal Waters. <i>Journal of Physical Oceanography</i> , 2010, 40, 2107-2121.	0.7	36
246	Interference Pattern and Propagation of the M2 Internal Tide South of the Hawaiian Ridge. <i>Journal of Physical Oceanography</i> , 2010, 40, 311-325.	0.7	89
247	The Surface Expression of Semidiurnal Internal Tides near a Strong Source at Hawaii. Part I: Observations and Numerical Predictions*. <i>Journal of Physical Oceanography</i> , 2010, 40, 1155-1179.	0.7	37
248	A Frontal Challenge for Climate Models. <i>Science</i> , 2011, 332, 316-317.	6.0	88
249	Upper ocean state estimation in the Southern Ocean Gas Exchange Experiment region using the four-dimensional variational technique. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	4
250	Internal tide dynamics in a topographically complex region: Browse Basin, Australian North West Shelf. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	35
251	The response of Southern Ocean eddies to increased midlatitude westerlies: A non-eddy resolving model study. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	27
252	The mixing efficiency of interfacial waves breaking at a ridge: 1. Overall mixing efficiency. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	7
253	Characterizing the statistical properties and interhemispheric distribution of Dansgaard-Oeschger events. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	5
254	Simulating the impact of freshwater inputs and deep-draft icebergs formed during a MIS 6 Barents Ice Sheet collapse. <i>Paleoceanography</i> , 2011, 26, .	3.0	8
255	TOWARD REGIONAL CHARACTERIZATIONS OF THE OCEANIC INTERNAL WAVEFIELD. <i>Reviews of Geophysics</i> , 2011, 49, .	9.0	96
256	SUSTAINED MONITORING OF THE SOUTHERN OCEAN AT DRAKE PASSAGE: PAST ACHIEVEMENTS AND FUTURE PRIORITIES. <i>Reviews of Geophysics</i> , 2011, 49, .	9.0	121

#	ARTICLE	IF	CITATIONS
257	Remote forcing of the Antarctic Circumpolar Current by diapycnal mixing. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	25
258	Is horizontal convection really “non-turbulent”? <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	49
259	Tidal mixing around Indonesia and the Maritime continent: Implications for paleoclimate simulations. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	12
260	The very first transformation of the Mediterranean outflow in the Strait of Gibraltar. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	39
262	Modeling Abrupt Climate Change as the Interaction Between Sea Ice Extent and Mean Ocean Temperature Under Orbital Insolation Forcing. <i>Geophysical Monograph Series</i> , 2011, , 57-74.	0.1	6
263	Stability of the Atlantic meridional overturning circulation and stratification in a zonally averaged ocean model: Effects of freshwater flux, Southern Ocean winds, and diapycnal diffusion. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 1927-1943.	0.6	19
264	Energy transfers in internal tide generation, propagation and dissipation in the deep ocean. <i>Ocean Modelling</i> , 2011, 38, 22-40.	1.0	13
265	The effect of topography-enhanced diapycnal mixing on ocean and atmospheric circulation and marine biogeochemistry. <i>Ocean Modelling</i> , 2011, 39, 262-274.	1.0	26
266	Large eddy simulations of mixed layer instabilities and sampling strategies. <i>Ocean Modelling</i> , 2011, 39, 311-331.	1.0	40
267	Direct and large-eddy simulations of internal tide generation at a near-critical slope. <i>Journal of Fluid Mechanics</i> , 2011, 681, 48-79.	1.4	42
268	What processes drive the ocean heat transport?. <i>Ocean Modelling</i> , 2011, 38, 171-186.	1.0	91
270	Hybrid Model Approaches to Predict Multiscale and Multiphysics Coastal Hydrodynamic and Sediment Transport Processes. , 2011, , .		0
271	Preface & “Deep Ocean Exchange with the Shelf (DOES)”&. <i>Ocean Science</i> , 2011, 7, 101-109.	1.3	7
272	Dynamical Processes for Descriptive Ocean Circulation. , 2011, , 1-72.		13
273	Dynamics of a tidally-forced stratified shear flow on the continental slope. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	14
274	Turbulent diapycnal mixing in the subtropical northwestern Pacific: Spatial-seasonal variations and role of eddies. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	34
275	Decay of an internal tide due to random topography in the ocean. <i>Journal of Fluid Mechanics</i> , 2011, 678, 271-293.	1.4	47
276	Rayleigh’s “Taylor mixing in an otherwise stable stratification. <i>Journal of Fluid Mechanics</i> , 2011, 688, 507-527.	1.4	38



#	ARTICLE	IF	CITATIONS
277	Internal wave generation by oscillation of a sphere, with application to internal tides. <i>Journal of Fluid Mechanics</i> , 2011, 666, 308-357.	1.4	34
278	Global rate and spectral characteristics of internal gravity wave generation by geostrophic flow over topography. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	96
279	Resonant amplification of subinertial tides in a submarine canyon. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	12
280	Seasonal and spatial variations of Southern Ocean diapycnal mixing from Argo profiling floats. <i>Nature Geoscience</i> , 2011, 4, 363-366.	5.4	99
281	On the role of the Agulhas system in ocean circulation and climate. <i>Nature</i> , 2011, 472, 429-436.	13.7	470
282	Nitrogen uptake and growth by the opportunistic macroalga <i>Ulva lactuca</i> (Linnaeus) during the internal tide. <i>Journal of Experimental Marine Biology and Ecology</i> , 2011, 406, 108-115.	0.7	43
283	Customisation of the decision support system MOIRA-PLUS for applications to the marine environment. <i>Journal of Environmental Radioactivity</i> , 2011, 102, 1112-1116.	0.9	7
284	Kelvin wave hydraulic control induced by interactions between vortices and topography. <i>Journal of Fluid Mechanics</i> , 2011, 687, 194-208.	1.4	22
285	Turbulence modification by stable stratification in channel flow. <i>Physics of Fluids</i> , 2011, 23, .	1.6	113
286	The mixing efficiency of interfacial waves breaking at a ridge: 2. Local mixing processes. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	6
287	Reversed North Atlantic gyre dynamics in present and glacial climates. <i>Climate Dynamics</i> , 2011, 36, 1107-1118.	1.7	24
288	Wind forcing of the ocean and the Atlantic meridional overturning circulation. <i>Climate Dynamics</i> , 2011, 37, 19-34.	1.7	2
289	Estimate of eddy energy generation/dissipation rate in the world ocean from altimetry data. <i>Ocean Dynamics</i> , 2011, 61, 525-541.	0.9	37
290	Experimental mixing parameterization due to multiphase fluid-structure interactions. <i>Mechanics Research Communications</i> , 2011, 38, 261-266.	1.0	9
291	Eigen solutions of internal waves over subcritical topography. <i>Acta Oceanologica Sinica</i> , 2011, 30, 1-8.	0.4	3
292	Horizontal convection: Effect of aspect ratio on Rayleigh number scaling and stability. <i>Applied Mathematical Modelling</i> , 2011, 35, 1647-1655.	2.2	46
293	Spinning phenomena and energetics of spherically pulsating patterns in stratified fluids. <i>Physica Scripta</i> , 2011, 84, 015402.	1.2	9
294	Vertical mixing in homogeneous sheared stratified turbulence: A one-dimensional-turbulence study. <i>Physics of Fluids</i> , 2011, 23, 055106.	1.6	11

#	ARTICLE	IF	CITATIONS
295	On the generation of large-scale structures in a homogeneous eddy field. <i>Journal of Fluid Mechanics</i> , 2011, 668, 76-99.	1.4	11
296	On the Patterns of Wind-Power Input to the Ocean Circulation. <i>Journal of Physical Oceanography</i> , 2011, 41, 2328-2342.	0.7	42
297	Higher-order (2 $\epsilon$ + $\epsilon^4$ ) Korteweg-de Vries-like equation for interfacial waves in a symmetric three-layer fluid. <i>Physics of Fluids</i> , 2011, 23, .	1.6	21
298	Dynamical Processes for Descriptive Ocean Circulation. , 2011, , 187-221.		14
299	Harmonic generation by reflecting internal waves. <i>Physics of Fluids</i> , 2011, 23, 026601.	1.6	34
300	First-Order Scaling Law for Potential Vorticity Extraction due to Wind. <i>Journal of Physical Oceanography</i> , 2012, 42, 1303-1312.	0.7	5
301	Macroturbulent Equilibration in a Thermally Forced Primitive Equation System. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 695-713.	0.6	38
302	Temporal Variability of Diapycnal Mixing in Shag Rocks Passage. <i>Journal of Physical Oceanography</i> , 2012, 42, 370-385.	0.7	11
303	Eddy-Modulated Internal Waves and Mixing on a Midocean Ridge. <i>Journal of Physical Oceanography</i> , 2012, 42, 1242-1248.	0.7	52
304	An Estimate of the Lorenz Energy Cycle for the World Ocean Based on the STORM/NCEP Simulation. <i>Journal of Physical Oceanography</i> , 2012, 42, 2185-2205.	0.7	219
305	Biogenic inputs to ocean mixing. <i>Journal of Experimental Biology</i> , 2012, 215, 1040-1049.	0.8	66
306	Distinct Modes of Internal Variability in the Global Meridional Overturning Circulation Associated with the Southern Hemisphere Westerly Winds. <i>Journal of Physical Oceanography</i> , 2012, 42, 785-801.	0.7	56
307	CFD application to oceanic mixed layer sampling with Lagrangian platforms. <i>International Journal of Computational Fluid Dynamics</i> , 2012, 26, 337-348.	0.5	16
308	Applications of Lie Group Analysis to Mathematical Modelling in Natural Sciences. <i>Mathematical Modelling of Natural Phenomena</i> , 2012, 7, 52-65.	0.9	10
309	Observations and Simulations of the Circulation and Mixing around the Andaman-Nicobar Submarine Ridge. <i>Atmospheric and Oceanic Science Letters</i> , 2012, 5, 319-323.	0.5	7
310	A perspective on the future of physical oceanography. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 5480-5511.	1.6	12
311	On the effects of frontogenetic strain on symmetric instability and inertia-gravity waves. <i>Journal of Fluid Mechanics</i> , 2012, 711, 620-640.	1.4	49
312	Propagating and evanescent internal waves in a deep ocean model. <i>Journal of Fluid Mechanics</i> , 2012, 706, 571-583.	1.4	18

#	ARTICLE	IF	CITATIONS
313	Entrainment and mixing dynamics of surface-stress-driven stratified flow in a cylinder. <i>Journal of Fluid Mechanics</i> , 2012, 691, 498-517.	1.4	7
314	Direct numerical simulation of stationary homogeneous stratified sheared turbulence. <i>Journal of Fluid Mechanics</i> , 2012, 696, 434-467.	1.4	100
315	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
316	The Stability of Short Symmetric Internal Waves on Sloping Fronts: Beyond the Traditional Approximation. <i>Journal of Physical Oceanography</i> , 2012, 42, 459-475.	0.7	21
317	Establishment of the Ocean Dynamic System with Four Sub-Systems and the Derivation of Their Governing Equation Sets. <i>Journal of Hydrodynamics</i> , 2012, 24, 153-168.	1.3	8
318	A simple microfluidic probe of nanoparticle suspension stability. <i>Lab on A Chip</i> , 2012, 12, 3467.	3.1	2
319	Towards Integrated Ethical and Scientific Analysis of Geoengineering: A Research Agenda. <i>Ethics, Policy and Environment</i> , 2012, 15, 136-157.	0.8	36
320	Spurious diapycnal mixing and the role of momentum closure. <i>Ocean Modelling</i> , 2012, 45-46, 37-58.	1.0	116
321	Enhanced vertical mixing within mesoscale eddies due to high frequency winds in the South China Sea. <i>Ocean Modelling</i> , 2012, 42, 1-15.	1.0	24
322	Modelling rotating stratified flows at laboratory-scale using spectrally-based DNS. <i>Ocean Modelling</i> , 2012, 49-50, 47-59.	1.0	26
323	The Ventilated Ocean. <i>Journal of Physical Oceanography</i> , 2012, 42, 141-164.	0.7	15
324	Unsteady nearshore natural convection induced by constant isothermal surface heating. <i>Journal of Fluid Mechanics</i> , 2012, 707, 342-368.	1.4	7
325	Laboratory experiments on the generation of internal waves on two kinds of continental margin. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	8
326	Buoyancy frequency profiles and internal semidiurnal tide turning depths in the oceans. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	33
327	Bottom dissipation of subinertial currents at the Atlantic zonal boundaries. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	9
328	A reappraisal of ocean wave studies. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	8
329	Is the deep Indian Ocean MOC sustained by breaking internal waves?. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	36
330	Spatially heterogeneous diapycnal mixing in the abyssal ocean: A comparison of two parameterizations to observations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	12

#	ARTICLE	IF	CITATIONS
331	Persistent upwelling and front over the Sulu Ridge and their variations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	8
332	Internal waves downstream of Norfolk Ridge, western Pacific, and their biophysical implications. <i>Limnology and Oceanography</i> , 2012, 57, 897-911.	1.6	14
333	Turbulent Mixing and Exchange with Interior Waters on Sloping Boundaries. <i>Journal of Physical Oceanography</i> , 2012, 42, 910-927.	0.7	68
334	The Role of Turbulent Mixing in an Overturning Circulation Maintained by Surface Buoyancy Forcing. <i>Journal of Physical Oceanography</i> , 2012, 42, 1907-1922.	0.7	18
335	Regional Models of Internal Tides. <i>Oceanography</i> , 2012, 25, 56-65.	0.5	57
337	A simple and self-consistent geostrophic-force-balance model of the thermohaline circulation with boundary mixing. <i>Ocean Science</i> , 2012, 8, 49-63.	1.3	4
338	Simulating the Long-Range Swell of Internal Waves Generated by Ocean Storms. <i>Oceanography</i> , 2012, 25, 30-41.	0.5	88
339	The Combined Effect of Tidally and Eddy-Driven Diapycnal Mixing on the Large-Scale Ocean Circulation. <i>Journal of Physical Oceanography</i> , 2012, 42, 526-538.	0.7	43
340	Inferring likelihoods and climate system characteristics from climate models and multiple tracers. <i>Environmetrics</i> , 2012, 23, 345-362.	0.6	24
341	Velocity Structure of Internal Tide Beams Emanating from Kaena Ridge, Hawaii. <i>Journal of Physical Oceanography</i> , 2012, 42, 1039-1044.	0.7	19
342	Dissipation of energy and vertical exchange in stratified basins caused by the shear instability in the field of quasiinertial internal waves. <i>Physical Oceanography</i> , 2012, 21, 383-393.	0.4	0
343	The effect of Coriolis-Stokes forcing on upper ocean circulation in a two-way coupled wave-current model. <i>Chinese Journal of Oceanology and Limnology</i> , 2012, 30, 321-335.	0.7	10
344	Orbitally forced sedimentary rhythms in the stratigraphic record: is there room for tidal forcing?. <i>Sedimentology</i> , 2012, 59, 379-392.	1.6	8
345	Quantification of CH <sub>4</sub> loss and transport in dissolved plumes of the Santa Barbara Channel, California. <i>Continental Shelf Research</i> , 2012, 32, 110-120.	0.9	40
346	Conversion of barotropic tidal energy to internal wave energy over a shelf slope for a linear stratification. <i>Continental Shelf Research</i> , 2012, 33, 69-88.	0.9	5
347	A minimal model of the Atlantic Multidecadal Variability: its genesis and predictability. <i>Climate Dynamics</i> , 2012, 38, 775-794.	1.7	9
348	Effects of the surface wave-induced mixing on circulation in an isopycnal-coordinate oceanic circulation model. <i>Acta Oceanologica Sinica</i> , 2013, 32, 7-14.	0.4	2
349	Eddy-Induced Modulation of Turbulent Dissipation over Rough Topography in the Southern Ocean. <i>Journal of Physical Oceanography</i> , 2013, 43, 2288-2308.	0.7	50

#	ARTICLE	IF	CITATIONS
350	The Energetics of a Collapsing Meridional Overturning Circulation. <i>Journal of Physical Oceanography</i> , 2013, 43, 1512-1524.	0.7	13
351	Turbulent mixing efficiency at an energetic ocean site. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 4662-4672.	1.0	45
352	The Leading, Interdecadal Eigenmode of the Atlantic Meridional Overturning Circulation in a Realistic Ocean Model. <i>Journal of Climate</i> , 2013, 26, 2160-2183.	1.2	64
353	Eddy energy sources and sinks in the South China Sea. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 4716-4726.	1.0	49
354	Analytical estimation of mixing coefficient induced by surface wave-generated turbulence based on the equilibrium solution of the second-order turbulence closure model. <i>Science China Earth Sciences</i> , 2013, 56, 71-80.	2.3	13
355	On the wind mechanical forcing of the ocean general circulation. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 6561-6577.	1.0	15
356	Rotating horizontal convection. <i>Journal of Fluid Mechanics</i> , 2013, 723, 556-586.	1.4	29
357	Turbulence during the reflection of internal gravity waves at critical and near-critical slopes. <i>Journal of Fluid Mechanics</i> , 2013, 729, 47-68.	1.4	17
358	Meridional trapping and zonal propagation of inertial waves in a rotating fluid shell. <i>Journal of Fluid Mechanics</i> , 2013, 729, 445-470.	1.4	26
359	Shear-induced mixing in geophysical flows: does the route to turbulence matter to its efficiency?. <i>Journal of Fluid Mechanics</i> , 2013, 725, 216-261.	1.4	64
360	Horizontal convection dynamics: insights from transient adjustment. <i>Journal of Fluid Mechanics</i> , 2013, 726, 559-595.	1.4	28
361	Development and evaluation of an Earth System Model with surface gravity waves. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 4514-4524.	1.0	101
362	The influence of high-resolution wind stress field on the power input to near-inertial motions in the ocean. <i>Geophysical Research Letters</i> , 2013, 40, 4882-4886.	1.5	114
363	Erosion and reworking of Pacific sediments near the Eocene-Oligocene boundary. <i>Paleoceanography</i> , 2013, 28, 263-273.	3.0	12
364	Vertical Eddy Energy Fluxes in the North Atlantic Subtropical and Subpolar Gyres. <i>Journal of Physical Oceanography</i> , 2013, 43, 95-103.	0.7	44
365	Internal wave and boundary current generation by tidal flow over topography. <i>Physics of Fluids</i> , 2013, 25, .	1.6	12
366	The Roles of Kuroshio Intrusion and Mesoscale Eddy in Upper Mixing in the Northern South China Sea. <i>Journal of Coastal Research</i> , 2013, 30, 192.	0.1	10
367	Time-dependent, non-monotonic mixing in stratified turbulent shear flows: implications for oceanographic estimates of buoyancy flux. <i>Journal of Fluid Mechanics</i> , 2013, 736, 570-593.	1.4	67

#	ARTICLE	IF	CITATIONS
368	The route to dissipation in strongly stratified and rotating flows. <i>Journal of Fluid Mechanics</i> , 2013, 720, 66-103.	1.4	37
369	Modern internal waves and internal tides along oceanic pycnoclines: Challenges and implications for ancient deep-marine baroclinic sands. <i>AAPG Bulletin</i> , 2013, 97, 799-843.	0.7	75
370	Global Observations of Ocean-Bottom Subinertial Current Dissipation. <i>Journal of Physical Oceanography</i> , 2013, 43, 402-417.	0.7	27
371	Tidal conversion and turbulence at a model ridge: direct and large eddy simulations. <i>Journal of Fluid Mechanics</i> , 2013, 715, 181-209.	1.4	26
372	Near-Inertial Waves in Strongly Baroclinic Currents. <i>Journal of Physical Oceanography</i> , 2013, 43, 706-725.	0.7	95
373	Impact of parameterized lee wave drag on the energy budget of an eddying global ocean model. <i>Ocean Modelling</i> , 2013, 72, 119-142.	1.0	36
374	Comment on "Internal waves, an under-explored source of turbulence events in the sedimentary record" by L. Pomar, M. Morsilli, P. Hallock, and B. Bardenas [ <i>Earth-Science Reviews</i> , 111 (2012), 56-81]. <i>Earth-Science Reviews</i> , 2013, 116, 195-205.	4.0	24
375	The budgets of heat and salinity in NEMO. <i>Ocean Modelling</i> , 2013, 67, 28-38.	1.0	31
376	Dynamical Potential Energy: A New Approach to Ocean Energetics. <i>Journal of Physical Oceanography</i> , 2013, 43, 457-476.	0.7	12
377	Subharmonic Energy Transfer from the Semidiurnal Internal Tide to Near-Diurnal Motions over Kaena Ridge, Hawaii. <i>Journal of Physical Oceanography</i> , 2013, 43, 766-789.	0.7	34
378	Global surface eddy diffusivities derived from satellite altimetry. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 901-916.	1.0	135
379	Helicity dynamics in stratified turbulence in the absence of forcing. <i>Physical Review E</i> , 2013, 87, 063007.	0.8	30
380	Available Potential Energy and Exergy in Stratified Fluids. <i>Annual Review of Fluid Mechanics</i> , 2013, 45, 35-58.	10.8	65
381	Observations of Near-Inertial Internal Gravity Waves Radiating from a Frontal Jet. <i>Journal of Physical Oceanography</i> , 2013, 43, 1225-1239.	0.7	53
382	Low-Frequency Modulation of Turbulent Diapycnal Mixing by Anticyclonic Eddies Inferred from the HOT Time Series. <i>Journal of Physical Oceanography</i> , 2013, 43, 824-835.	0.7	16
383	On the Variability of Wind Power Input to the Oceans with a Focus on the Subpolar North Atlantic. <i>Journal of Climate</i> , 2013, 26, 3892-3903.	1.2	11
384	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
385	Propagation of Meridional Circulation Anomalies along Western and Eastern Boundaries. <i>Journal of Physical Oceanography</i> , 2013, 43, 2699-2717.	0.7	39

#	ARTICLE	IF	CITATIONS
386	Estimating Oceanic Turbulence Dissipation from Seismic Images. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 1767-1788.	0.5	43
387	Sensitivity of the Ocean State to the Vertical Distribution of Internal-Tide-Driven Mixing. <i>Journal of Physical Oceanography</i> , 2013, 43, 602-615.	0.7	128
388	Diapycnal Mixing Processes in the Ocean Interior. <i>International Geophysics</i> , 2013, 103, 159-183.	0.6	23
389	Large-Scale Circulation in a Rectangular Enclosure With Periodic Boundary Temperature. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2013, 135, .	0.8	1
390	An analytical theory of the buoyancyâ€“Kolmogorov subrange transition in turbulent flows with stable stratification. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120212.	1.6	27
391	Conceptual Models of the Wind-Driven and Thermohaline Circulation. <i>International Geophysics</i> , 2013, , 257-282.	0.6	7
392	Routes to energy dissipation for geostrophic flows in the Southern Ocean. <i>Nature Geoscience</i> , 2013, 6, 48-51.	5.4	132
393	Upper ocean vertical supply: A neglected primary factor controlling the distribution of neodymium concentrations of open ocean surface waters?. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 3887-3894.	1.0	12
394	A Comparison of Tidal Conversion Parameterizations for Tidal Models. <i>Journal of Physical Oceanography</i> , 2013, 43, 104-119.	0.7	87
395	Observational evidence supports the role of tropical cyclones in regulating climate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15173-15174.	3.3	10
396	The Impact of Oceanic Near-Inertial Waves on Climate. <i>Journal of Climate</i> , 2013, 26, 2833-2844.	1.2	141
397	The ocean's gravitational potential energy budget in a coupled climate model. <i>Geophysical Research Letters</i> , 2013, 40, 5417-5422.	1.5	5
398	Tidal dissipation in the early Eocene and implications for ocean mixing. <i>Geophysical Research Letters</i> , 2013, 40, 2707-2713.	1.5	48
399	Observations of a freshwater pulse induced by Typhoon Morakot off the northern coast of Taiwan in August 2009. <i>Journal of Marine Research</i> , 2013, 71, 19-46.	0.3	12
400	Tropical stormâ€“induced nearâ€“inertial internal waves during the Cirene experiment: Energy fluxes and impact on vertical mixing. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 358-380.	1.0	61
401	Closure of the Global Overturning Circulation Through the Indian, Pacific, and Southern Oceans: Schematics and Transports. <i>Oceanography</i> , 2013, 26, 80-97.	0.5	555
402	The Ocean as a Component of the Climate System. <i>International Geophysics</i> , 2013, 103, 3-30.	0.6	11
403	Ocean Circulation Models and Modeling. <i>International Geophysics</i> , 2013, , 521-551.	0.6	5



#	ARTICLE	IF	CITATIONS
404	Autonomous, high-resolution observations of particle flux in the oligotrophic ocean. <i>Biogeosciences</i> , 2013, 10, 5517-5531.	1.3	31
405	Internal Tides and Abyssal Mixing. , 2013, , .		0
406	Dynamically and Kinematically Consistent Global Ocean Circulation and Ice State Estimates. <i>International Geophysics</i> , 2013, 103, 553-579.	0.6	101
408	Lee wave generation rates in the deep ocean. <i>Geophysical Research Letters</i> , 2014, 41, 2434-2440.	1.5	47
409	The Dependence of Global Ocean Modeling on Background Diapycnal Mixing. <i>Scientific World Journal</i> , The, 2014, 2014, 1-7.	0.8	0
410	The Finite Element Sea Ice-Ocean Model (FESOM) v.1.4: formulation of an ocean general circulation model. <i>Geoscientific Model Development</i> , 2014, 7, 663-693.	1.3	205
411	Mechanism for potential strengthening of Atlantic overturning prior to collapse. <i>Earth System Dynamics</i> , 2014, 5, 383-397.	2.7	1
412	A Conceptual Model of Ocean Heat Uptake under Climate Change. <i>Journal of Climate</i> , 2014, 27, 8444-8465.	1.2	58
413	Autonomous Ocean Turbulence Measurements Using Shear Probes on a Moored Instrument. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014, 31, 474-490.	0.5	39
414	Bottom-Enhanced Diapycnal Mixing Driven by Mesoscale Eddies: Sensitivity to Wind Energy Supply. <i>Journal of Physical Oceanography</i> , 2014, 44, 68-85.	0.7	13
415	A Heuristic Model of Dansgaard-Oeschger Cycles. Part I: Description, Results, and Sensitivity Studies. <i>Journal of Climate</i> , 2014, 27, 4337-4358.	1.2	13
416	Internal wave energy radiated from a turbulent mixed layer. <i>Physics of Fluids</i> , 2014, 26, .	1.6	10
417	Toward Energetically Consistent Ocean Models. <i>Journal of Physical Oceanography</i> , 2014, 44, 3160-3184.	0.7	33
418	Virtual Seafloor Reduces Internal Wave Generation by Tidal Flow. <i>Physical Review Letters</i> , 2014, 112, 104502.	2.9	11
419	Global Calculation of Tidal Energy Conversion into Vertical Normal Modes. <i>Journal of Physical Oceanography</i> , 2014, 44, 3225-3244.	0.7	47
420	Energetics of Semienclosed Basins with Two-Layer Flows at the Strait. <i>Journal of Physical Oceanography</i> , 2014, 44, 967-979.	0.7	36
421	Multicentennial Agulhas leakage variability and links to North Atlantic climate during the past 80,000 years. <i>Paleoceanography</i> , 2014, 29, 1238-1248.	3.0	30
422	The Global Distribution of Diapycnal Mixing and Mixing Coefficient Tensor in the Upper 2000m Ocean from Argo Observations. <i>Marine Geodesy</i> , 2014, 37, 337-353.	0.9	3



#	ARTICLE	IF	CITATIONS
423	Sensitivity of the Ocean State to Lee Wave-Driven Mixing. <i>Journal of Physical Oceanography</i> , 2014, 44, 900-921.	0.7	51
424	Inertial wave rays in rotating spherical fluid domains. <i>Journal of Fluid Mechanics</i> , 2014, 758, 621-654.	1.4	12
425	Time-Variable Refraction of the Internal Tide at the Hawaiian Ridge. <i>Journal of Physical Oceanography</i> , 2014, 44, 538-557.	0.7	73
426	Transient growth in strongly stratified shear layers. <i>Journal of Fluid Mechanics</i> , 2014, 758, .	1.4	29
427	The spontaneous generation of inertia-gravity waves during frontogenesis forced by large strain: theory. <i>Journal of Fluid Mechanics</i> , 2014, 757, 817-853.	1.4	41
428	Spectral Analysis of the Efficiency of Vertical Mixing in the Deep Ocean due to Interaction of Tidal Currents with a Ridge Running down a Continental Slope. <i>Mathematical Modelling of Natural Phenomena</i> , 2014, 9, 119-137.	0.9	1
429	Efficient mixing in stratified flows: experimental study of a Rayleigh-Taylor unstable interface within an otherwise stable stratification. <i>Journal of Fluid Mechanics</i> , 2014, 756, 1027-1057.	1.4	55
431	Dynamics of Finite-Core Vortices. <i>Atmospheric and Oceanographic Sciences Library</i> , 2014, , 179-315.	0.1	0
432	Dynamics of Discrete Vortices. <i>Atmospheric and Oceanographic Sciences Library</i> , 2014, , 37-177.	0.1	2
433	The Concluding Chapter. <i>Atmospheric and Oceanographic Sciences Library</i> , 2014, , 317-324.	0.1	0
434	The Introductory Chapter. <i>Atmospheric and Oceanographic Sciences Library</i> , 2014, , 1-36.	0.1	0
435	Effect of topographic barriers on the rates of available potential energy conversion of the oceans. <i>Ocean Modelling</i> , 2014, 76, 31-42.	1.0	11
436	The evolution of large and small-scale structures in Kelvin-Helmholtz instabilities. <i>Environmental Fluid Mechanics</i> , 2014, 14, 1275-1301.	0.7	11
437	Dynamics of Vortex Structures in a Stratified Rotating Fluid. <i>Atmospheric and Oceanographic Sciences Library</i> , 2014, , .	0.1	51
438	Experimental determination of radiated internal wave power without pressure field data. <i>Physics of Fluids</i> , 2014, 26, 046606.	1.6	7
439	Internal gravity waves from atmospheric jets and fronts. <i>Reviews of Geophysics</i> , 2014, 52, 33-76.	9.0	294
440	Internal Wave Breaking and Dissipation Mechanisms on the Continental Slope/Shelf. <i>Annual Review of Fluid Mechanics</i> , 2014, 46, 231-254.	10.8	196
441	Scattering of Low-Mode Internal Waves at Finite Isolated Topography. <i>Journal of Physical Oceanography</i> , 2014, 44, 359-383.	0.7	44

#	ARTICLE	IF	CITATIONS
442	Focusing and vertical mode scattering of the first mode internal tide by mesoscale eddy interaction. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 523-536.	1.0	91
443	An error evaluation on the vertical velocity algorithm in POM. <i>Acta Oceanologica Sinica</i> , 2014, 33, 12-20.	0.4	1
444	Nd isotopic structure of the Pacific Ocean 70–30 Ma and numerical evidence for vigorous ocean circulation and ocean heat transport in a greenhouse world. <i>Paleoceanography</i> , 2014, 29, 454-469.	3.0	53
445	Inferring deep ocean tidal energy dissipation from the global high-resolution data-assimilative HAMTIDE model. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 4573-4592.	1.0	77
446	Observations of a diapycnal shortcut to adiabatic upwelling of Antarctic Circumpolar Deep Water. <i>Geophysical Research Letters</i> , 2014, 41, 7950-7956.	1.5	16
447	Energetics and mixing efficiency of lock-exchange flow. <i>Ocean Modelling</i> , 2014, 83, 1-10.	1.0	11
448	Penetration depth of diapycnal mixing generated by wind stress and flow over topography in the northwestern Pacific. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 5501-5514.	1.0	12
449	Microstructure turbulence and diffusivity parameterization in the tropical and subtropical Atlantic, Pacific and Indian Oceans during the Malaspina 2010 expedition. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014, 94, 15-30.	0.6	38
450	A Description of Local and Nonlocal Eddy-Mean Flow Interaction in a Global Eddy-Permitting State Estimate. <i>Journal of Physical Oceanography</i> , 2014, 44, 2336-2352.	0.7	104
451	Sustaining observations of the unsteady ocean circulation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130335.	1.6	4
452	Global Patterns of Diapycnal Mixing from Measurements of the Turbulent Dissipation Rate. <i>Journal of Physical Oceanography</i> , 2014, 44, 1854-1872.	0.7	392
453	Internal tide radiation from the Luzon Strait. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 5434-5448.	1.0	134
454	An Energy Compartment Model for Propagation, Nonlinear Interaction, and Dissipation of Internal Gravity Waves. <i>Journal of Physical Oceanography</i> , 2014, 44, 2093-2106.	0.7	59
455	What goes down must come up. <i>Nature</i> , 2014, 513, 179-180.	13.7	33
456	Energetics of Multidecadal Atlantic Ocean Variability. <i>Journal of Climate</i> , 2014, 27, 7874-7889.	1.2	5
457	Sound processing takes motor control. <i>Nature</i> , 2014, 513, 180-181.	13.7	1
458	Mechanisms of Global-Mean Steric Sea Level Change. <i>Journal of Climate</i> , 2014, 27, 824-834.	1.2	36
459	Storms modify baroclinic energy fluxes in a seasonally stratified shelf sea: Inertial-tidal interaction. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 6863-6883.	1.0	22

#	ARTICLE	IF	CITATIONS
460	Enhanced turbulent mixing induced by strong wind on the South China Sea shelf. <i>Ocean Dynamics</i> , 2014, 64, 781-796.	0.9	8
461	The Origins of Late-Twentieth-Century Variations in the Large-Scale North Atlantic Circulation. <i>Journal of Climate</i> , 2014, 27, 3222-3247.	1.2	118
462	Impact of eddies on ocean diapycnal mixing in Gulf Stream region. <i>Science China Earth Sciences</i> , 2014, 57, 1407-1414.	2.3	4
463	Estimation of vertical diffusion coefficient based on a one-dimensional temperature diffusion equation with an inverse method. <i>Acta Oceanologica Sinica</i> , 2014, 33, 28-36.	0.4	2
464	Mathematical and physical ideas for climate science. <i>Reviews of Geophysics</i> , 2014, 52, 809-859.	9.0	104
465	Energy Fluxes in the Quasigeostrophic Double Gyre Problem. <i>Journal of Physical Oceanography</i> , 2014, 44, 1505-1522.	0.7	9
466	Toroidal vortices over isolated topography in geophysical flows. <i>Fluid Dynamics Research</i> , 2014, 46, 031405.	0.6	3
467	Application of Argo-derived background diapycnal mixing in HYCOM. <i>Journal of Marine Systems</i> , 2014, 137, 1-12.	0.9	1
468	Comparison of calculated energy flux of internal tides with microstructure measurements. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 66, 23240.	0.8	11
469	Internal tide generation in nonuniformly stratified deep oceans. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 1943-1956.	1.0	12
470	A conceptual model of ocean freshwater flux derived from sea surface salinity. <i>Geophysical Research Letters</i> , 2014, 41, 6452-6458.	1.5	3
471	Finescale parameterizations of turbulent dissipation. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 1383-1419.	1.0	120
472	Relating Lagrangian and Eulerian horizontal eddy statistics in the surfzone. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 1022-1037.	1.0	11
473	Fast dimension-reduced climate model calibration and the effect of data aggregation. <i>Annals of Applied Statistics</i> , 2014, 8, .	0.5	33
474	Mixing by microorganisms in stratified fluids. <i>Journal of Marine Research</i> , 2014, 72, 47-72.	0.3	20
475	Entrainment and mixing in a laboratory model of oceanic overflow. <i>Journal of Fluid Mechanics</i> , 2014, 746, 498-535.	1.4	31
476	Investigation of Boussinesq dynamics using intermediate models based on wave-vortical interactions. <i>Journal of Fluid Mechanics</i> , 2014, 747, 247-287.	1.4	18
477	Optimal mixing in two-dimensional plane Poiseuille flow at finite Péclet number. <i>Journal of Fluid Mechanics</i> , 2014, 748, 241-277.	1.4	67

#	ARTICLE	IF	CITATIONS
478	A numerical study of the unstratified and stratified Ekman layer. <i>Journal of Fluid Mechanics</i> , 2014, 755, 672-704.	1.4	45
479	A generalised-Lagrangian-mean model of the interactions between near-inertial waves and mean flow. <i>Journal of Fluid Mechanics</i> , 2015, 774, 143-169.	1.4	73
480	Diapycnal diffusivity, turbulent Prandtl number and mixing efficiency in Boussinesq stratified turbulence. <i>Journal of Fluid Mechanics</i> , 2015, 775, 464-500.	1.4	82
481	On the meaning of mixing efficiency for buoyancy-driven mixing in stratified turbulent flows. <i>Journal of Fluid Mechanics</i> , 2015, 781, 261-275.	1.4	25
482	The intermittency boundary in stratified plane Couette flow. <i>Journal of Fluid Mechanics</i> , 2015, 781, 298-329.	1.4	57
483	Entrainment and mixed layer dynamics of a surface-stress-driven stratified fluid. <i>Journal of Fluid Mechanics</i> , 2015, 765, 653-667.	1.4	6
484	Parameterization of eddy fluxes based on a mesoscale energy budget. <i>Ocean Modelling</i> , 2015, 92, 28-41.	1.0	61
485	Topographic height dependence of internal wave generation by tidal flow over random topography. <i>Geophysical Research Letters</i> , 2015, 42, 8081-8087.	1.5	3
486	Rapid injection of near-inertial shear into the stratified upper ocean at an Antarctic Circumpolar Current front. <i>Geophysical Research Letters</i> , 2015, 42, 3431-3441.	1.5	12
487	Ocean acoustic reverberation tomography. <i>Journal of the Acoustical Society of America</i> , 2015, 138, 3458-3469.	0.5	1
488	Separating the influence of projected changes in air temperature and wind on patterns of sea level change and ocean heat content. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 5749-5765.	1.0	12
489	Vertical kinetic energy and turbulent dissipation in the ocean. <i>Geophysical Research Letters</i> , 2015, 42, 7639-7647.	1.5	11
490	Indirect evidence for substantial damping of low-mode internal tides in the open ocean. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 6057-6071.	1.0	45
491	Intensified Diapycnal Mixing in the Midlatitude Western Boundary Currents. <i>Scientific Reports</i> , 2014, 4, 7412.	1.6	32
492	Influence of the multipole order of the source on the decay of an inertial wave beam in a rotating fluid. <i>Physics of Fluids</i> , 2015, 27, .	1.6	16
493	Biogenic mixing induced by intermediate Reynolds number swimming in stratified fluids. <i>Scientific Reports</i> , 2015, 5, 17448.	1.6	26
494	Improve the Simulations of Near-Inertial Internal Waves in the Ocean General Circulation Models. <i>Journal of Atmospheric and Oceanic Technology</i> , 2015, 32, 1960-1970.	0.5	9
495	Sensitivity of Southern Ocean circulation to wind stress changes: Role of relative wind stress. <i>Ocean Modelling</i> , 2015, 95, 15-24.	1.0	19

#	ARTICLE	IF	CITATIONS
496	Energy budget-based backscatter in an eddy permitting primitive equation model. <i>Ocean Modelling</i> , 2015, 94, 15-26.	1.0	59
497	Laboratory experiments on the resonance of internal waves on a finite height subcritical topography. <i>Ocean Dynamics</i> , 2015, 65, 1269-1274.	0.9	7
498	Influence of Enhanced Abyssal Diapycnal Mixing on Stratification and the Ocean Overturning Circulation. <i>Journal of Physical Oceanography</i> , 2015, 45, 2580-2597.	0.7	39
499	A three-dimensional map of tidal dissipation over abyssal hills. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 4760-4777.	1.0	23
500	Seasonal methane accumulation and release from a gas emission site in the central North Sea. <i>Biogeosciences</i> , 2015, 12, 5261-5276.	1.3	32
501	The role of the ocean mixed layer on the development of the North Atlantic Oscillation: A dynamical system's perspective. <i>Geophysical Research Letters</i> , 2015, 42, 8615-8623.	1.5	16
502	OCEANOGRAPHIC TOPICS   Thermohaline Circulation. , 2015, , 315-328.		0
503	Pathways, Volume Transport, and Mixing of Abyssal Water in the Samoan Passage. <i>Journal of Physical Oceanography</i> , 2015, 45, 562-588.	0.7	33
504	Meridional Overturning Circulations Driven by Surface Wind and Buoyancy Forcing. <i>Journal of Physical Oceanography</i> , 2015, 45, 2701-2714.	0.7	6
505	Microstructure measurement from an underwater glider: Motion analysis and experimental results. , 2015, , .		0
506	Role of Near-Inertial Internal Waves in Subthermocline Diapycnal Mixing in the Northern Gulf of Mexico. <i>Journal of Physical Oceanography</i> , 2015, 45, 3137-3154.	0.7	12
507	Latitudinal Dependence of Wind-Induced Near-Inertial Energy. <i>Journal of Physical Oceanography</i> , 2015, 45, 3025-3032.	0.7	10
508	Internal Waves and Mixing near the Kerguelen Plateau. <i>Journal of Physical Oceanography</i> , 2015, 46, 417-437.	0.7	25
509	Energy Cascades and Loss of Balance in a Reentrant Channel Forced by Wind Stress and Buoyancy Fluxes. <i>Journal of Physical Oceanography</i> , 2015, 45, 272-293.	0.7	38
510	Turbulence and finestructure in a deep ocean channel with sill overflow on the mid-Atlantic ridge. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2015, 99, 10-22.	0.6	12
511	Impacts on Ocean Heat from Transient Mesoscale Eddies in a Hierarchy of Climate Models. <i>Journal of Climate</i> , 2015, 28, 952-977.	1.2	292
512	Tidal mixing processes amid small-scale, deep-ocean topography. <i>Geophysical Research Letters</i> , 2015, 42, 484-491.	1.5	14
513	Mixing Variability in the Southern Ocean. <i>Journal of Physical Oceanography</i> , 2015, 45, 966-987.	0.7	39

#	ARTICLE	IF	CITATIONS
514	Hydrographic biases in global coupled climate models and their relation to the meridional overturning circulation. <i>Climate Dynamics</i> , 2015, 44, 1-44.	1.7	7
515	On the validity of single-parcel energetics to assess the importance of internal energy and compressibility effects in stratified fluids. <i>Journal of Fluid Mechanics</i> , 2015, 767, .	1.4	3
516	A parameterization scheme of vertical mixing due to inertial internal wave breaking in the ocean general circulation model. <i>Acta Oceanologica Sinica</i> , 2015, 34, 11-22.	0.4	1
517	The Energetics of Centrifugal Instability. <i>Journal of Physical Oceanography</i> , 2015, 45, 1554-1573.	0.7	20
518	Contribution of seasonal sub-Antarctic surface water variability to millennial-scale changes in atmospheric CO <sub>2</sub> over the last deglaciation and Marine Isotope Stage 3. <i>Earth and Planetary Science Letters</i> , 2015, 411, 87-99.	1.8	23
519	Energy Flux into Internal Lee Waves: Sensitivity to Future Climate Changes Using Linear Theory and a Climate Model. <i>Journal of Climate</i> , 2015, 28, 2365-2384.	1.2	23
520	Morphology Alters Fluid Transport and the Ability of Organisms to Mix Oceanic Waters. <i>Integrative and Comparative Biology</i> , 2015, 55, 698-705.	0.9	9
521	Mixing, Dissipation Rate, and Their Overturn-Based Estimates in a Near-Bottom Turbulent Flow Driven by Internal Tides. <i>Journal of Physical Oceanography</i> , 2015, 45, 1969-1987.	0.7	32
522	Water Mass Transformations Driven by Ekman Upwelling and Surface Warming in Subpolar Gyres. <i>Journal of Physical Oceanography</i> , 2015, 45, 2356-2380.	0.7	5
523	Spontaneous Generation of Near-Inertial Waves by the Kuroshio Front. <i>Journal of Physical Oceanography</i> , 2015, 45, 2381-2406.	0.7	94
524	Available Potential Energy and the General Circulation: Partitioning Wind, Buoyancy Forcing, and Diapycnal Mixing. <i>Journal of Physical Oceanography</i> , 2015, 45, 1510-1531.	0.7	26
525	The Influence of High-Frequency Atmospheric Forcing on the Circulation and Deep Convection of the Labrador Sea. <i>Journal of Climate</i> , 2015, 28, 4980-4996.	1.2	42
526	Phytoplankton community structure at the juncture of the Agulhas Return Front and Subtropical Front in the Indian Ocean sector of Southern Ocean: Bottom-up and top-down control. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015, 118, 233-239.	0.6	22
527	The axisymmetric collapse of a mixed patch and internal wave generation in uniformly stratified rotating fluid. <i>Physics of Fluids</i> , 2015, 27, 056602.	1.6	1
528	Critical and near-critical reflections of near-inertial waves off the sea surface at ocean fronts. <i>Journal of Fluid Mechanics</i> , 2015, 765, 273-302.	1.4	13
529	Why is there net surface heating over the Antarctic Circumpolar Current?. <i>Ocean Dynamics</i> , 2015, 65, 751-760.	0.9	5
530	Estimating Lorenz's Reference State in an Ocean with a Nonlinear Equation of State for Seawater. <i>Journal of Physical Oceanography</i> , 2015, 45, 1242-1257.	0.7	26
531	Study the past, if you would divine the future: a retrospective on measuring and understanding Quaternary climate change. <i>Journal of Quaternary Science</i> , 2015, 30, 154-187.	1.1	36

#	ARTICLE	IF	CITATIONS
532	Biases in Thorpe-Scale Estimates of Turbulence Dissipation. Part II: Energetics Arguments and Turbulence Simulations. <i>Journal of Physical Oceanography</i> , 2015, 45, 2522-2543.	0.7	55
533	Discrete particle modeling of granular Rayleigh-Taylor instability. <i>International Journal of Multiphase Flow</i> , 2015, 77, 260-270.	1.6	8
534	Mixing and Transport in Coastal River Plumes. <i>Annual Review of Fluid Mechanics</i> , 2015, 47, 569-594.	10.8	298
535	An appraisal of the power density of current profile in the Persian Gulf and the Gulf of Oman using numerical simulation. <i>Renewable Energy</i> , 2015, 74, 307-317.	4.3	8
536	Ocean Current Changes. , 2016, , 253-269.		0
537	Analysis of the simulated global temperature using a simple energy balance stochastic model. <i>Atmosfera</i> , 2016, 29, 279-297.	0.3	2
538	Diapycnal Velocity in the Double-Diffusive Thermocline. <i>Fluids</i> , 2016, 1, 25.	0.8	1
539	The latitudinal dependence of the oceanic barotropic eddy kinetic energy and macroturbulence energy transport. <i>Geophysical Research Letters</i> , 2016, 43, 2723-2731.	1.5	18
540	Abrupt climate change due to icebergs. , 0, , 155-181.		0
541	Spontaneous Wave Generation at Strongly Strained Density Fronts. <i>Journal of Physical Oceanography</i> , 2016, 46, 2063-2081.	0.7	11
542	Evidence for seafloor-intensified mixing by surface-generated equatorial waves. <i>Geophysical Research Letters</i> , 2016, 43, 1202-1210.	1.5	23
543	An immersed boundary method for direct and large eddy simulation of stratified flows in complex geometry. <i>Journal of Computational Physics</i> , 2016, 322, 511-534.	1.9	13
544	Variability, Instabilities, and Eddies in a Snowball Ocean. <i>Journal of Climate</i> , 2016, 29, 869-888.	1.2	15
545	Numerical investigation of initial condition effects on Rayleigh-Taylor instability with acceleration reversals. <i>Physical Review E</i> , 2016, 94, 053114.	0.8	23
546	A new characterization of the turbulent diapycnal diffusivities of mass and momentum in the ocean. <i>Geophysical Research Letters</i> , 2016, 43, 3370-3379.	1.5	46
547	Overlooked Role of Mesoscale Winds in Powering Ocean Diapycnal Mixing. <i>Scientific Reports</i> , 2016, 6, 37180.	1.6	4
548	Temporal variability of diapycnal mixing in the northern South China Sea. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 8840-8848.	1.0	13
549	Tidal energy redistribution among vertical modes in a fluid with a mid-depth pycnocline. <i>Physics of Fluids</i> , 2016, 28, .	1.6	6



#	ARTICLE	IF	CITATIONS
550	Wave-turbulence interaction-induced vertical mixing and its effects in ocean and climate models. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150201.	1.6	62
551	Does the wind systematically energize or damp ocean eddies?. Geophysical Research Letters, 2016, 43, 12,538.	1.5	5
552	Observations, inferences, and mechanisms of the Atlantic Meridional Overturning Circulation: A review. Reviews of Geophysics, 2016, 54, 5-63.	9.0	508
553	The deep Earth may not be cooling down. Earth and Planetary Science Letters, 2016, 443, 195-203.	1.8	54
554	Sensitivity of near-inertial internal waves to spatial interpolations of wind stress in ocean generation circulation models. Ocean Modelling, 2016, 99, 15-21.	1.0	11
555	PSI in the case of internal wave beam reflection at a uniform slope. Journal of Fluid Mechanics, 2016, 789, 347-367.	1.4	11
556	Internal wave attractors over random, small-amplitude topography. Journal of Fluid Mechanics, 2016, 787, 148-174.	1.4	14
557	Turning Ocean Mixing Upside Down. Journal of Physical Oceanography, 2016, 46, 2239-2261.	0.7	132
558	The Mixing Efficiency of Stratified Turbulent Boundary Layers. Journal of Physical Oceanography, 2016, 46, 3181-3191.	0.7	24
559	Time-Dependent Eddy-Mean Energy Diagrams and Their Application to the Ocean. Journal of Physical Oceanography, 2016, 46, 2827-2850.	0.7	27
560	Early summer water mass transformation in the eastern Chukchi Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2016, 130, 43-55.	0.6	41
561	Mixing and dissipation in a geostrophic buoyancy-driven circulation. Journal of Geophysical Research: Oceans, 2016, 121, 6076-6091.	1.0	16
562	Mooring observations of the near-inertial wave wake of Hurricane Ida (2009). Dynamics of Atmospheres and Oceans, 2016, 76, 325-344.	0.7	11
563	Mixing by internal waves quantified using combined PIV/PLIF technique. Experiments in Fluids, 2016, 57, 1.	1.1	13
564	The Mechanical Energy Budget of a Regional Ocean Model. Journal of Physical Oceanography, 2016, 46, 2719-2733.	0.7	13
565	Internal tides recorded at ocean bottom off the coast of Southeast Taiwan. Journal of Geophysical Research: Oceans, 2016, 121, 3381-3394.	1.0	12
566	The eddy kinetic energy budget in the Red Sea. Journal of Geophysical Research: Oceans, 2016, 121, 4732-4747.	1.0	58
567	Systematic Bias in Baroclinic Energy Estimates in Shelf Seas. Journal of Physical Oceanography, 2016, 46, 2851-2862.	0.7	6



#	ARTICLE	IF	CITATIONS
568	Laboratory simulation of the geothermal heating effects on ocean overturning circulation. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 7589-7598.	1.0	12
569	Ice melt, sea level rise and superstorms: evidence from paleoclimate data, climate modeling, and modern observations that 2 Å°C global warming could be dangerous. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 3761-3812.	1.9	421
570	Nonlinear internal wave penetration via parametric subharmonic instability. <i>Physics of Fluids</i> , 2016, 28, .	1.6	8
571	Impact of Synoptic Atmospheric Forcing on the Mean Ocean Circulation. <i>Journal of Climate</i> , 2016, 29, 5709-5724.	1.2	27
572	An Index to Distinguish Surface- and Subsurface-Intensified Vortices from Surface Observations. <i>Journal of Physical Oceanography</i> , 2016, 46, 2529-2552.	0.7	61
573	Reconstructing global overturning from meridional density gradients. <i>Climate Dynamics</i> , 2016, 46, 2593-2610.	1.7	12
574	Wind effect on the Atlantic meridional overturning circulation via sea ice and vertical diffusion. <i>Climate Dynamics</i> , 2016, 46, 3387-3403.	1.7	25
575	Vertical mixing and internal wave energy fluxes in a sill fjord. <i>Journal of Marine Systems</i> , 2016, 159, 15-32.	0.9	18
576	Closing the energy cycle in an ocean model. <i>Ocean Modelling</i> , 2016, 101, 30-42.	1.0	15
577	Microstructure observations in the upper layer of the South China Sea. <i>Journal of Oceanography</i> , 2016, 72, 777-786.	0.7	8
578	The Turbulent Circulation of a Snowball Earth Ocean. <i>Journal of Physical Oceanography</i> , 2016, 46, 1917-1933.	0.7	27
579	Dissipation processes in the Tongue of the Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 3159-3170.	1.0	2
580	Turbulence measurements in the northern gulf of Mexico: Application to the Deepwater Horizon oil spill on droplet dynamics. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2016, 109, 40-50.	0.6	12
581	Biomixing due to diel vertical migrations of zooplankton: Comparison of computational fluid dynamics model with observations. <i>Ocean Modelling</i> , 2016, 98, 51-64.	1.0	7
582	On the Consumption of Antarctic Bottom Water in the Abyssal Ocean. <i>Journal of Physical Oceanography</i> , 2016, 46, 635-661.	0.7	103
583	Global Observations of Open-Ocean Mode-1 M2 Internal Tides. <i>Journal of Physical Oceanography</i> , 2016, 46, 1657-1684.	0.7	164
584	Observations of Small-Scale Secondary Instabilities during the Shoaling of Internal Bores on a Deep-Ocean Slope. <i>Journal of Physical Oceanography</i> , 2016, 46, 219-231.	0.7	6
585	Tidal Mixing in the South China Sea: An Estimate Based on the Internal Tide Energetics. <i>Journal of Physical Oceanography</i> , 2016, 46, 107-124.	0.7	67

#	ARTICLE	IF	CITATIONS
586	Climatic Impacts of Parameterized Local and Remote Tidal Mixing. <i>Journal of Climate</i> , 2016, 29, 3473-3500.	1.2	69
587	The Impact of a Variable Mixing Efficiency on the Abyssal Overturning. <i>Journal of Physical Oceanography</i> , 2016, 46, 663-681.	0.7	78
588	Boussinesq global modes and stability sensitivity, with applications to stratified wakes. <i>Journal of Fluid Mechanics</i> , 2017, 812, 1146-1188.	1.4	1
589	Internal wave focusing by a horizontally oscillating torus. <i>Journal of Fluid Mechanics</i> , 2017, 813, 695-715.	1.4	11
590	A statistical mechanics approach to mixing in stratified fluids. <i>Journal of Fluid Mechanics</i> , 2017, 810, 554-583.	1.4	14
591	Explicitly modelled deep-time tidal dissipation and its implication for Lunar history. <i>Earth and Planetary Science Letters</i> , 2017, 461, 46-53.	1.8	68
592	Mixing Inferred from an Ocean Climatology and Surface Fluxes. <i>Journal of Physical Oceanography</i> , 2017, 47, 667-687.	0.7	34
593	Local versus volume-integrated turbulence and mixing in breaking internal waves on slopes. <i>Journal of Fluid Mechanics</i> , 2017, 815, 169-198.	1.4	15
594	Spontaneous Surface Generation and Interior Amplification of Internal Waves in a Regional-Scale Ocean Model. <i>Journal of Physical Oceanography</i> , 2017, 47, 811-826.	0.7	39
595	Observing subsurface changes of two anticyclonic eddies passing over the Izu-Ogasawara Ridge. <i>Geophysical Research Letters</i> , 2017, 44, 1857-1865.	1.5	8
596	Improved estimates of ocean heat content from 1960 to 2015. <i>Science Advances</i> , 2017, 3, e1601545.	4.7	460
597	Initiation of Snowball Earth with volcanic sulfur aerosol emissions. <i>Geophysical Research Letters</i> , 2017, 44, 1938-1946.	1.5	71
598	On the Accuracy of Overturn-Based Estimates of Turbulent Dissipation at Rough Topography. <i>Journal of Physical Oceanography</i> , 2017, 47, 513-532.	0.7	5
599	Semidiurnal internal tide energy fluxes and their variability in a Global Ocean Model and moored observations. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 1882-1900.	1.0	29
600	On the response of the Lorenz energy cycle for the Southern Ocean to intensified westerlies. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 2465-2493.	1.0	11
601	Focusing of internal tides by near-inertial waves. <i>Geophysical Research Letters</i> , 2017, 44, 2398-2406.	1.5	9
602	Internal-Wave-Driven Mixing: Global Geography and Budgets. <i>Journal of Physical Oceanography</i> , 2017, 47, 1325-1345.	0.7	119
603	A Closure for Internal Wave-Mean Flow Interaction. Part I: Energy Conversion. <i>Journal of Physical Oceanography</i> , 2017, 47, 1389-1401.	0.7	16

#	ARTICLE	IF	CITATIONS
604	Efficiency of turbulent mixing in the abyssal ocean circulation. <i>Geophysical Research Letters</i> , 2017, 44, 6296-6306.	1.5	89
605	The variation of turbulent diapycnal mixing at 18°N in the South China Sea stirred by wind stress. <i>Acta Oceanologica Sinica</i> , 2017, 36, 26-30.	0.4	0
606	Persistence of a freshwater surface ocean after a snowball Earth. <i>Geology</i> , 2017, 45, 615-618.	2.0	63
607	Energy Exchange between the Mesoscale Oceanic Eddies and Wind-Forced Near-Inertial Oscillations. <i>Journal of Physical Oceanography</i> , 2017, 47, 721-733.	0.7	27
608	The impact of atmospheric storminess on the sensitivity of Southern Ocean circulation to wind stress changes. <i>Ocean Modelling</i> , 2017, 115, 14-26.	1.0	12
609	Thermal stratification hinders gyrotactic micro-organism rising in free-surface turbulence. <i>Physics of Fluids</i> , 2017, 29, 053302.	1.6	17
610	The viscous lee wave problem and its implications for ocean modelling. <i>Ocean Modelling</i> , 2017, 113, 22-29.	1.0	19
611	Surface Wave Effects on the Wind-Power Input to Mixed Layer Near-Inertial Motions. <i>Journal of Physical Oceanography</i> , 2017, 47, 1077-1093.	0.7	14
612	The Abundance of Atmospheric CO <sub>2</sub> in Ocean Exoplanets: a Novel CO <sub>2</sub> Deposition Mechanism. <i>Astrophysical Journal</i> , 2017, 838, 24.	1.6	23
613	Deep circulation driven by strong vertical mixing in the Timor Basin. <i>Ocean Dynamics</i> , 2017, 67, 191-209.	0.9	6
614	Oscillatory stratified flow over supercritical topography: Wave energetics and turbulence. <i>Computers and Fluids</i> , 2017, 158, 39-48.	1.3	3
615	Mixing efficiency in the thermocline of lakes observed from eddy correlation flux measurements. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 291-305.	1.0	6
616	Glacial ocean circulation and stratification explained by reduced atmospheric temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 45-50.	3.3	70
617	Impact of Tidal Mixing on Water Mass Transformation and Circulation in the South China Sea. <i>Journal of Physical Oceanography</i> , 2017, 47, 419-432.	0.7	32
618	Energy transfer of surface wind-induced currents to the deep ocean via resonance with the Coriolis force. <i>Journal of Marine Systems</i> , 2017, 167, 93-104.	0.9	3
619	Life and Demise of Intrathermocline Mesoscale Vortices. <i>Journal of Physical Oceanography</i> , 2017, 47, 3087-3103.	0.7	10
620	Energetics of the Brazil Current in the Rio Grande Cone region. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2017, 128, 67-81.	0.6	13
621	Dynamics of phytoplankton blooms in turbulent vortex cells. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170453.	1.5	9

#	ARTICLE	IF	CITATIONS
622	Three-dimensional evolution of internal waves reflected from a submarine seamount. <i>Physics of Fluids</i> , 2017, 29, .	1.6	24
623	Global Tidal Impacts of Large-Scale Ice Sheet Collapses. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 8354-8370.	1.0	30
624	The Global Mode-2 Internal Tide. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 8794-8812.	1.0	28
625	How we compute $N$ matters to estimates of mixing in stratified flows. <i>Journal of Fluid Mechanics</i> , 2017, 831, .	1.4	21
626	Assessing the Effects of Langmuir Turbulence on the Entrainment Buoyancy Flux in the Ocean Surface Boundary Layer. <i>Journal of Physical Oceanography</i> , 2017, 47, 2863-2886.	0.7	71
627	Mesoscale and Submesoscale Effects on Mixed Layer Depth in the Southern Ocean. <i>Journal of Physical Oceanography</i> , 2017, 47, 2173-2188.	0.7	42
628	Nonlinear processes generated by supercritical tidal flow in shallow straits. <i>Physics of Fluids</i> , 2017, 29, 066603.	1.6	4
629	Dependence of Energy Flux from the Wind to Surface Inertial Currents on the Scale of Atmospheric Motions. <i>Journal of Physical Oceanography</i> , 2017, 47, 2711-2719.	0.7	14
630	Active Pacific meridional overturning circulation (PMOC) during the warm Pliocene. <i>Science Advances</i> , 2017, 3, e1700156.	4.7	55
631	Determining Mixing Rates from Concurrent Temperature and Velocity Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017, 34, 2283-2293.	0.5	29
632	Decadal-Mean Impact of Including Ocean Surface Currents in Bulk Formulas on Surface Air-Sea Fluxes and Ocean General Circulation. <i>Journal of Climate</i> , 2017, 30, 9511-9525.	1.2	15
633	Rayleigh-Taylor and Richtmyer-Meshkov instability induced flow, turbulence, and mixing. I. <i>Physics Reports</i> , 2017, 720-722, 1-136.	10.3	306
634	Biological production, export efficiency, and phytoplankton communities across 8000 km of the South Atlantic. <i>Global Biogeochemical Cycles</i> , 2017, 31, 1066-1088.	1.9	10
635	The onset of modern-like Atlantic meridional overturning circulation at the Eocene-Oligocene transition: Evidence, causes, and possible implications for global cooling. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 2177-2199.	1.0	29
636	Nonlinear evolution of linear optimal perturbations of strongly stratified shear layers. <i>Journal of Fluid Mechanics</i> , 2017, 825, 213-244.	1.4	14
637	Evaluating the Global Internal Wave Model IDEMIX Using Finestructure Methods. <i>Journal of Physical Oceanography</i> , 2017, 47, 2267-2289.	0.7	28
638	Role of overturns in optimal mixing in stratified mixing layers. <i>Journal of Fluid Mechanics</i> , 2017, 826, 522-552.	1.4	43
639	Propagation of the Semidiurnal Internal Tide: Phase Velocity Versus Group Velocity. <i>Geophysical Research Letters</i> , 2017, 44, 11,942.	1.5	7

#	ARTICLE	IF	CITATIONS
640	Snowball Earth climate dynamics and Cryogenian geology-geobiology. <i>Science Advances</i> , 2017, 3, e1600983.	4.7	424
641	Oblique internal-wave chain resonance over seabed corrugations. <i>Journal of Fluid Mechanics</i> , 2017, 833, 538-562.	1.4	1
642	An Expendable Microstructure Profiler for Deep Ocean Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017, 34, 153-165.	0.5	28
643	From Topographic Internal Gravity Waves to Turbulence. <i>Annual Review of Fluid Mechanics</i> , 2017, 49, 195-220.	10.8	66
644	Stirring Up the Biological Pump: Vertical Mixing and Carbon Export in the Southern Ocean. <i>Global Biogeochemical Cycles</i> , 2017, 31, 1420-1434.	1.9	36
645	The Prevalence of Oceanic Surface Modes. <i>Geophysical Research Letters</i> , 2017, 44, 11,097.	1.5	62
646	Can the Ocean's Heat Engine Control Horizontal Circulation? Insights From the Caspian Sea. <i>Geophysical Research Letters</i> , 2017, 44, 9893-9900.	1.5	4
647	Spatial Variation of Diapycnal Diffusivity Estimated From Seismic Imaging of Internal Wave Field, Gulf of Mexico. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 9827-9854.	1.0	21
648	Stability of the thermohaline circulation examined with a one-dimensional fluid loop. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2017, 69, 1380490.	0.8	0
649	Examination of precipitation variability in southern Greenland. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6202-6216.	1.2	14
650	Wind-Driven Overturning, Mixing and Upwelling in Shallow Water: A Nonhydrostatic Modeling Study. <i>Journal of Marine Science and Engineering</i> , 2017, 5, 47.	1.2	8
651	Intensity of vertical turbulent exchange in the Black Sea summer pycnocline around the Crimean peninsula. <i>Journal of Physics: Conference Series</i> , 2017, 899, 022015.	0.3	0
652	Tidal Prediction. <i>Journal of Marine Research</i> , 2017, 75, 189-237.	0.3	34
653	Damping of quasi-two-dimensional internal wave attractors by rigid-wall friction. <i>Journal of Fluid Mechanics</i> , 2018, 841, 614-635.	1.4	21
654	Abysal Upwelling in Mid-Ocean Ridge Fracture Zones. <i>Geophysical Research Letters</i> , 2018, 45, 2424-2432.	1.5	8
655	Elevated particulate organic carbon export flux induced by internal waves in the oligotrophic northern South China Sea. <i>Scientific Reports</i> , 2018, 8, 2042.	1.6	28
656	Dynamical Characterization of a Low Oxygen Submesoscale Coherent Vortex in the Eastern North Atlantic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 2049-2065.	1.0	10
657	Diagnostic Characteristics of Submesoscale Coastal Surface Currents. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 1838-1859.	1.0	18

#	ARTICLE	IF	CITATIONS
658	Satellite Investigation of the M2 Internal Tide in the Tasman Sea. <i>Journal of Physical Oceanography</i> , 2018, 48, 687-703.	0.7	11
659	Nonlinear excitation of the ablative Rayleigh-Taylor instability for all wave numbers. <i>Physical Review E</i> , 2018, 97, 011203.	0.8	20
660	Modern Concepts About Oceanic Internal Waves. , 2018, , 1-45.		0
661	Contribution of Surface Thermal Forcing to Mixing in the Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 855-863.	1.0	10
662	The Life Cycle of Spontaneously Generated Internal Waves. <i>Journal of Physical Oceanography</i> , 2018, 48, 343-359.	0.7	16
663	Quantifying Diapycnal Mixing in an Energetic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 346-357.	1.0	37
664	Convection Enhances Mixing in the Southern Ocean. <i>Geophysical Research Letters</i> , 2018, 45, 4198-4207.	1.5	15
665	Fifty years of the 137°E repeat hydrographic section in the western North Pacific Ocean. <i>Journal of Oceanography</i> , 2018, 74, 115-145.	0.7	48
666	The Ice Cap Zone: A Unique Habitable Zone for Ocean Worlds. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	21
667	Diapycnal Mixing in the Southern Ocean Diagnosed Using the DIMES Tracer and Realistic Velocity Fields. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 2615-2634.	1.0	2
668	Observed Energy Exchange between Low-Frequency Flows and Internal Waves in the Gulf of Mexico. <i>Journal of Physical Oceanography</i> , 2018, 48, 995-1008.	0.7	17
669	An Objective Method for Determining Ocean Mixed Layer Depth with Applications to WOCE Data. <i>Journal of Atmospheric and Oceanic Technology</i> , 2018, 35, 441-458.	0.5	22
670	Deep water characteristics and circulation in the South China Sea. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2018, 134, 55-63.	0.6	29
671	A Shell Model for Optimal Mixing. <i>Journal of Nonlinear Science</i> , 2018, 28, 2153-2186.	1.0	10
672	Mixing Efficiency in the Ocean. <i>Annual Review of Marine Science</i> , 2018, 10, 443-473.	5.1	284
673	Instabilities of Internal Gravity Wave Beams. <i>Annual Review of Fluid Mechanics</i> , 2018, 50, 131-156.	10.8	86
674	Models of energy loss from internal waves breaking in the ocean. <i>Journal of Fluid Mechanics</i> , 2018, 836, 72-116.	1.4	20
675	Internal wave generation by tidal flow over a two-dimensional ridge: energy flux asymmetries induced by a steady surface trapped current. <i>Journal of Fluid Mechanics</i> , 2018, 836, 192-221.	1.4	20

#	ARTICLE	IF	CITATIONS
676	The Lifecycle of Semidiurnal Internal Tides over the Northern Mid-Atlantic Ridge. <i>Journal of Physical Oceanography</i> , 2018, 48, 61-80.	0.7	35
677	The Global Mode-2 Internal Tide. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 7725-7746.	1.0	27
678	Letter: Ocean bathymetry reconstruction from surface data using hydraulics theory. <i>Physics of Fluids</i> , 2018, 30, 121701.	1.6	4
679	Diffusion-limited mixing by incompressible flows. <i>Nonlinearity</i> , 2018, 31, 2346-2359.	0.6	20
680	Long-Range Radiation and Interference Pattern of Multisource Mode-2 Internal Tides in the Philippine Sea. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 5091-5112.	1.0	42
681	Based on PCI Software Day Draw Satellite is Projective Like Making Technology Discussed in This Paper. <i>MATEC Web of Conferences</i> , 2018, 227, 02013.	0.1	0
682	Vitamin B2 blocks development of Alzheimer's disease in APP/PS1 transgenic mice via anti-oxidative mechanism. <i>Tropical Journal of Pharmaceutical Research</i> , 2018, 17, 1049.	0.2	9
683	Pattern of vertical velocity in the Lofoten vortex (the Norwegian Sea). <i>Ocean Dynamics</i> , 2018, 68, 1711-1725.	0.9	20
684	Baroclinic Tides Simulation in the Red Sea: Comparison to Observations and Basic Characteristics. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 9389-9404.	1.0	14
685	Internal wave energy flux from density perturbations in nonlinear stratifications. <i>Journal of Fluid Mechanics</i> , 2018, 856, 898-920.	1.4	6
686	The cold wake of typhoon Chaba (2010). <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2018, 140, 136-141.	0.6	10
687	Annual Cycle of Turbulent Dissipation Estimated from Seagliders. <i>Geophysical Research Letters</i> , 2018, 45, 10,560.	1.5	18
688	Energy budget-based backscatter in a shallow water model of a double gyre basin. <i>Ocean Modelling</i> , 2018, 132, 1-11.	1.0	14
689	100 Years of the Ocean General Circulation. <i>Meteorological Monographs</i> , 2018, 59, 7.1-7.32.	5.0	12
690	Linking mixing processes and climate variability to the heat content distribution of the Eastern Mediterranean abyss. <i>Scientific Reports</i> , 2018, 8, 11317.	1.6	8
691	An Assessment of Representation of Oceanic Mesoscale Eddy-Atmosphere Interaction in the Current Generation of General Circulation Models and Reanalyses. <i>Geophysical Research Letters</i> , 2018, 45, 11,856.	1.5	15
693	Ocean Circulation: Knowns and Unknowns. , 0, , 159-176.		0
694	The Effect of Air-Sea Flux Products, Shortwave Radiation Depth Penetration, and Albedo on the Upper Ocean Overturning Circulation. <i>Geophysical Research Letters</i> , 2018, 45, 9087-9097.	1.5	17



#	ARTICLE	IF	CITATIONS
695	Estuarine Exchange Flow Is Related to Mixing through the Salinity Variance Budget. <i>Journal of Physical Oceanography</i> , 2018, 48, 1375-1384.	0.7	57
696	Role of Mesoscale Eddies in Modulating the Semidiurnal Internal Tide: Observation Results in the Northern South China Sea. <i>Journal of Physical Oceanography</i> , 2018, 48, 1749-1770.	0.7	40
697	Observed Variations in Turbulent Mixing Efficiency in the Deep Ocean. <i>Journal of Physical Oceanography</i> , 2018, 48, 1815-1830.	0.7	37
698	Non-hydrostatic effects in the Dead Sea. <i>Journal of Marine Systems</i> , 2018, 187, 36-51.	0.9	1
699	The Vertical Turbulent Exchange Features in the Black Sea Active Layer. <i>Springer Geology</i> , 2018, , 148-156.	0.2	1
700	Internal Tidal Modal Ray Refraction and Energy Ducting in Baroclinic Gulf Stream Currents. <i>Journal of Physical Oceanography</i> , 2018, 48, 1969-1993.	0.7	26
701	Stably Stratified Wall-Bounded Turbulence. <i>Applied Mechanics Reviews</i> , 2018, 70, .	4.5	26
702	Assessment of fine-scale parameterizations at low latitudes of the North Pacific. <i>Scientific Reports</i> , 2018, 8, 10281.	1.6	17
703	Implications of Tides for Life on Exoplanets. <i>Astrobiology</i> , 2018, 18, 967-982.	1.5	21
704	Available Potential Energy in Density Coordinates. <i>Journal of Physical Oceanography</i> , 2018, 48, 1867-1883.	0.7	3
705	Enhanced mixing by patchy turbulence in the northern South China Sea. <i>Continental Shelf Research</i> , 2018, 166, 34-43.	0.9	2
706	Internal Tide Generation at the Vitória-Trindade Ridge, South Atlantic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 5150-5159.	1.0	4
707	Convection: a neglected pathway for downward transfer of wind energy in the oceanic mixed layer. <i>Journal of Oceanology and Limnology</i> , 2018, 36, 1189-1197.	0.6	2
708	Impact of Mesoscale Eddy Transfer on Heat Uptake in an Eddy-Parameterizing Ocean Model. <i>Journal of Climate</i> , 2018, 31, 8589-8606.	1.2	21
709	Update on the Global Energy Dissipation Rate of Deep-Ocean Low-Frequency Flows by Bottom Boundary Layer. <i>Journal of Physical Oceanography</i> , 2018, 48, 1243-1255.	0.7	4
710	Recent Contributions of Theory to Our Understanding of the Atlantic Meridional Overturning Circulation. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 5376-5399.	1.0	71
711	Toward an Energetically Consistent, Resolution Aware Parameterization of Ocean Mesoscale Eddies. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2844-2860.	1.3	58
712	Glacial Ice Sheet Extent Effects on Modeled Tidal Mixing and the Global Overturning Circulation. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1437-1454.	1.3	20



#	ARTICLE	IF	CITATIONS
713	Correlation of Near-Inertial Wind Stress in Typhoon and Typhoon-Induced Oceanic Near-Inertial Kinetic Energy in the Upper South China Sea. <i>Atmosphere</i> , 2019, 10, 388.	1.0	11
714	Global Estimates of the Energy Transfer From the Wind to the Ocean, With Emphasis on Near-Inertial Oscillations. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 5723-5746.	1.0	36
715	Global cooling linked to increased glacial carbon storage via changes in Antarctic sea ice. <i>Nature Geoscience</i> , 2019, 12, 1001-1005.	5.4	33
716	Near-Inertial Wave Trapping Near the Base of an Anticyclonic Mesoscale Eddy Under Normal Atmospheric Conditions. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 8455-8467.	1.0	14
718	Analysis of turbulent mixing in the Eastern Path of Indonesian Throughflow. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 278, 012003.	0.2	1
719	Testing the Assumptions Underlying Ocean Mixing Methodologies Using Direct Numerical Simulations. <i>Journal of Physical Oceanography</i> , 2019, 49, 2761-2779.	0.7	19
720	Impact of North Atlantic Freshwater Forcing on the Pacific Meridional Overturning Circulation under Glacial and Interglacial Conditions. <i>Journal of Climate</i> , 2019, 32, 4641-4659.	1.2	2
722	Bathymetric properties of the Baltic Sea. <i>Ocean Science</i> , 2019, 15, 905-924.	1.3	28
723	Ocean Eddy Energetics in the Spectral Space as Revealed by High-Resolution General Circulation Models. <i>Journal of Physical Oceanography</i> , 2019, 49, 2815-2827.	0.7	7
724	Observations of internal waves generated by an anticyclonic eddy: a case study in the ice edge region of the Greenland Sea. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 71, 1652881.	0.8	7
725	Tracer Transport within Abyssal Mixing Layers. <i>Journal of Physical Oceanography</i> , 2019, 49, 2669-2695.	0.7	11
726	Influence of Abyssal Mixing on the Multilayer Circulation in the South China Sea. <i>Journal of Physical Oceanography</i> , 2019, 49, 3045-3060.	0.7	12
727	Observations and Models of Low-Mode Internal Waves in the Ocean. <i>Mathematics of Planet Earth</i> , 2019, , 127-143.	0.1	0
729	Internal lee waves and baroclinic bores over a tropical seamount shark "hot-spot". <i>Progress in Oceanography</i> , 2019, 172, 34-50.	1.5	36
730	A new numerical model for understanding free and dissolved gas progression toward the atmosphere in aquatic methane seepage systems. <i>Limnology and Oceanography: Methods</i> , 2019, 17, 223-239.	1.0	7
731	Global Observing Needs in the Deep Ocean. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	166
732	Baroclinic Tidal Sea Level from Exact-Repeat Mission Altimetry. <i>Journal of Physical Oceanography</i> , 2019, 49, 193-210.	0.7	62
733	Two-dimensional isotropic inertia-gravity wave turbulence. <i>Journal of Fluid Mechanics</i> , 2019, 872, 752-783.	1.4	8

#	ARTICLE	IF	CITATIONS
734	Submesoscale Surface Tidal, Vortical, and Residual Circulations in a Semienclosed Bay. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 5105-5137.	1.0	0
735	Particle transport induced by internal wave beam streaming in lateral boundary layers. <i>Journal of Fluid Mechanics</i> , 2019, 870, 848-869.	1.4	6
736	The response of surface buoyancy flux-driven convection to localized mechanical forcing. <i>Experiments in Fluids</i> , 2019, 60, 1.	1.1	1
737	<sup>3</sup> He along the ultraslow spreading AMOR in the Norwegian-Greenland Seas. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2019, 147, 1-11.	0.6	12
738	Statistical Characteristics of Cyclonic Warm-Core Eddies and Anticyclonic Cold-Core Eddies in the North Pacific Based on Remote Sensing Data. <i>Remote Sensing</i> , 2019, 11, 208.	1.8	46
739	Wind Power on Oceanic Near-Inertial Oscillations in the Global Ocean Estimated From Surface Drifters. <i>Geophysical Research Letters</i> , 2019, 46, 2647-2653.	1.5	31
740	Generation of oceanic internal gravity waves by a cyclonic surface stress disturbance. <i>Dynamics of Atmospheres and Oceans</i> , 2019, 86, 116-133.	0.7	28
741	Diffuse Interface Approaches in Atmosphere and Ocean Modeling and Numerical Implementation. <i>Mathematics of Planet Earth</i> , 2019, , 287-307.	0.1	0
742	Tides and Turbulent Mixing in the North of Taiwan Island. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 313-325.	1.9	4
743	Mean flow generation by three-dimensional nonlinear internal wave beams. <i>Journal of Fluid Mechanics</i> , 2019, 864, 303-326.	1.4	5
744	Resolving the horizontal direction of internal tide generation. <i>Journal of Fluid Mechanics</i> , 2019, 864, 381-407.	1.4	9
745	Inhomogeneous Turbulent Dispersion across the Nearshore Induced by Surfzone Eddies. <i>Journal of Physical Oceanography</i> , 2019, 49, 1015-1034.	0.7	9
746	Assessment of the Finite-volume Sea ice-Ocean Model (FESOM2.0) Part 1: Description of selected key model elements and comparison to its predecessor version. <i>Geoscientific Model Development</i> , 2019, 12, 4875-4899.	1.3	21
747	Response of Near-Inertial Shear to Wind Stress Curl and Sea Level. <i>Scientific Reports</i> , 2019, 9, 20417.	1.6	10
748	Mapping Internal Tides From Satellite Altimetry Without Blind Directions. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 8605-8625.	1.0	25
749	No Snowball on Habitable Tidally Locked Planets with a Dynamic Ocean. <i>Astrophysical Journal Letters</i> , 2019, 884, L46.	3.0	26
750	The Contribution of Surface and Submesoscale Processes to Turbulence in the Open Ocean Surface Boundary Layer. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4066-4094.	1.3	44
751	Advances in research of the mid-deep South China Sea circulation. <i>Science China Earth Sciences</i> , 2019, 62, 1992-2004.	2.3	34

#	ARTICLE	IF	CITATIONS
752	Sensitivity of Deep Ocean Mixing to Local Internal Tide Breaking and Mixing Efficiency. <i>Geophysical Research Letters</i> , 2019, 46, 14622-14633.	1.5	20
753	Oceanic Overturning and Heat Transport: The Role of Background Diffusivity. <i>Journal of Climate</i> , 2019, 32, 701-716.	1.2	10
754	Spatial and seasonal variability of global ocean diapycnal transport inferred from Argo profiles. <i>Journal of Oceanology and Limnology</i> , 2019, 37, 498-512.	0.6	3
755	Numerical Study on Tidal Mixing in the Bohai Sea. <i>Marine Geodesy</i> , 2019, 42, 46-63.	0.9	5
756	Online isolation of near-inertial internal waves in ocean general circulation models. <i>Ocean Modelling</i> , 2019, 134, 30-41.	1.0	2
757	The Evolution and Arrest of a Turbulent Stratified Oceanic Bottom Boundary Layer over a Slope: Downslope Regime. <i>Journal of Physical Oceanography</i> , 2019, 49, 469-487.	0.7	14
758	Deep learning of mixing by two $\hat{\epsilon}$ atoms <sup>TM</sup> of stratified turbulence. <i>Journal of Fluid Mechanics</i> , 2019, 861, .	1.4	34
759	A Modified Vertical Mixing Parameterization for Its Improved Ocean and Coupled Simulations in the Tropical Pacific. <i>Journal of Physical Oceanography</i> , 2019, 49, 21-37.	0.7	24
760	Mixing characteristics of the subarctic front in the Kuroshio-Oyashio confluence region. <i>Oceanologia</i> , 2019, 61, 103-113.	1.1	8
761	Cascade and intermittency of the sea surface temperature in the oceanic system. <i>Physica Scripta</i> , 2019, 94, 014009.	1.2	4
762	Ocean Circulation: Meridional Overturning Circulation. , 2019, , 135-140.		0
763	Impacts of subtidal motions and the earth rotation on modal characteristics of the semidiurnal internal tide. <i>Journal of Oceanography</i> , 2020, 76, 15-27.	0.7	1
764	Effect of swarm configuration on fluid transport during vertical collective motion. <i>Bioinspiration and Biomimetics</i> , 2020, 15, 015002.	1.5	2
765	Global Trends of Sea Surface Gravity Wave, Wind, and Coastal Wave Setup. <i>Journal of Climate</i> , 2020, 33, 769-785.	1.2	10
766	Statistical tests for the distribution of surface wind and current speeds across the globe. <i>Renewable Energy</i> , 2020, 149, 861-876.	4.3	16
767	Settling disks in a linearly stratified fluid. <i>Journal of Fluid Mechanics</i> , 2020, 885, .	1.4	21
768	Internal wave boluses as coherent structures in a continuously stratified fluid. <i>Journal of Fluid Mechanics</i> , 2020, 885, .	1.4	9
769	Seasonal and interannual variability of vertical turbulent exchange coefficient in the Black Sea pycnocline in 2013-2016 and its relation to variability of mean kinetic energy of surface currents. <i>Ocean Dynamics</i> , 2020, 70, 199-211.	0.9	11

#	ARTICLE	IF	CITATIONS
770	The Tides They Are Aâ€ˆChanging': A Comprehensive Review of Past and Future Nonastronomical Changes in Tides, Their Driving Mechanisms, and Future Implications. <i>Reviews of Geophysics</i> , 2020, 58, e2018RG000636.	9.0	126
771	Investigating the Role of the Tibetan Plateau in the Formation of Pacific Meridional Overturning Circulation. <i>Journal of Climate</i> , 2020, 33, 3603-3617.	1.2	13
772	Modal Analysis of Internal Wave Propagation and Scattering over Large-Amplitude Topography. <i>Journal of Physical Oceanography</i> , 2020, 50, 305-321.	0.7	10
773	Internal wave-driven mixing: governing processes and consequences for climate. <i>Nature Reviews Earth &amp; Environment</i> , 2020, 1, 606-621.	12.2	91
774	On the interplay between horizontal resolution and wave drag and their effect on tidal baroclinic mode waves in realistic global ocean simulations. <i>Ocean Modelling</i> , 2020, 152, 101656.	1.0	32
775	Coupled analysis of seawater and sedimentary <sup>231</sup> Pa/ <sup>230</sup> Th in the tropical Atlantic. <i>Marine Chemistry</i> , 2020, 227, 103894.	0.9	2
776	Downscale transfer of quasigeostrophic energy catalyzed by near-inertial waves. <i>Journal of Fluid Mechanics</i> , 2020, 904, .	1.4	9
777	On Energy Cascades in General Flows: A Lagrangian Application. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002090.	1.3	2
778	Diapycnal mixing of passive tracers by Kelvinâ€ˆHelmholtz instabilities. <i>Journal of Fluid Mechanics</i> , 2020, 900, .	1.4	5
779	Ocean Gyres Driven by Surface Buoyancy Forcing. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088539.	1.5	15
780	The parameterization of mean dynamic topography based on the Lagrange basis functions. <i>Advances in Space Research</i> , 2020, 66, 2122-2140.	1.2	5
781	Particleâ€ˆBased Lagrangian Filtering for Locating Waveâ€ˆGenerated Thermal Refugia for Coral Reefs. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016106.	1.0	9
782	Fullâ€ˆDepth Global Estimates of Ocean Mesoscale Eddy Mixing From Observations and Theory. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089425.	1.5	36
783	The effect of ocean turbulence on acoustic propagation in shallow water. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 580, 012097.	0.2	0
784	Observations of the Lowâ€ˆMode Internal Tide and Its Interaction With Mesoscale Flow South of the Azores. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015879.	1.0	12
785	Direct Observations of Nearâ€ˆInertial Wave Î¶ â€ˆRefraction in a Dipole Vortex. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090375.	1.5	12
786	Effects of Atwood and Reynolds numbers on the evolution of buoyancy-driven homogeneous variable-density turbulence. <i>Journal of Fluid Mechanics</i> , 2020, 895, .	1.4	25
787	Tides on Other Earths: Implications for Exoplanet and Palaeoâ€ˆTidal Simulations. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085746.	1.5	14

#	ARTICLE	IF	CITATIONS
788	Eddies in the North Greenland Sea and Fram Strait From Satellite Altimetry, SAR and High-Resolution Model Data. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015832.	1.0	23
789	Time-Lapse Acoustic Imaging of Mesoscale and Fine-Scale Variability within the Faroe-Shetland Channel. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015861.	1.0	9
790	Variable-density buoyancy-driven turbulence with asymmetric initial density distribution. <i>Physica D: Nonlinear Phenomena</i> , 2020, 406, 132444.	1.3	21
791	The Structure of Climate Variability Across Scales. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000657.	9.0	71
792	The evolution of superharmonics excited by internal tides in non-uniform stratification. <i>Journal of Fluid Mechanics</i> , 2020, 891, .	1.4	15
793	Breaking of Internal Waves and Turbulent Dissipation in an Anticyclonic Mode Water Eddy. <i>Journal of Physical Oceanography</i> , 2020, 50, 1893-1914.	0.7	21
794	Meridional Overturning Circulation in a Multibasin Model. Part I: Dependence on Southern Ocean Buoyancy Forcing. <i>Journal of Physical Oceanography</i> , 2020, 50, 1159-1178.	0.7	10
795	Mixing in forced stratified turbulence and its dependence on large-scale forcing. <i>Journal of Fluid Mechanics</i> , 2020, 898, .	1.4	28
796	The Atlantic Meridional Overturning Circulation in High-Resolution Models. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015522.	1.0	75
797	A non-breaking-wave-generated turbulence mixing scheme for a global ocean general circulation model. <i>Ocean Dynamics</i> , 2020, 70, 293-305.	0.9	7
798	Internal Waves on the Continental Shelf of the Northwestern Arabian Gulf. <i>Frontiers in Marine Science</i> , 2020, 6, .	1.2	11
799	Deep-reaching acceleration of global mean ocean circulation over the past two decades. <i>Science Advances</i> , 2020, 6, eaax7727.	4.7	80
800	Chemical archeoceanography. <i>Chemical Geology</i> , 2020, 548, 119625.	1.4	9
801	Modal decomposition of polychromatic internal wave fields in arbitrary stratifications. <i>Wave Motion</i> , 2020, 95, 102549.	1.0	4
802	Impacts of High-Frequency Atmospheric Forcing on Southern Ocean Circulation and Antarctic Sea Ice. <i>Advances in Atmospheric Sciences</i> , 2020, 37, 515-531.	1.9	15
803	Almost-sure enhanced dissipation and uniform-in-diffusivity exponential mixing for advection-diffusion by stochastic Navier-Stokes. <i>Probability Theory and Related Fields</i> , 2021, 179, 777-834.	0.9	21
804	Roles of Shear and Convection in Driving Mixing in the Ocean. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL089455.	1.5	7
805	Simulation of stably stratified turbulent channel flow using residual-based variational multiscale method and isogeometric analysis. <i>Computers and Fluids</i> , 2021, 214, 104765.	1.3	32

#	ARTICLE	IF	CITATIONS
806	Layering, Instabilities, and Mixing in Turbulent Stratified Flows. <i>Annual Review of Fluid Mechanics</i> , 2021, 53, 113-145.	10.8	126
807	Combining Modern and Paleoceanographic Perspectives on Ocean Heat Uptake. <i>Annual Review of Marine Science</i> , 2021, 13, 255-281.	5.1	4
808	A possible generation mechanism for internal waves near the edge of a submesoscale eddy. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2021, 73, 1-11.	0.8	1
809	Ocean current changes. , 2021, , 219-249.		0
811	Forward flux and enhanced dissipation of geostrophic balanced energy. <i>Journal of Fluid Mechanics</i> , 2021, 911, .	1.4	11
812	The interaction of internal wave groups with a uniform sloping boundary. <i>Journal of Fluid Mechanics</i> , 2021, 913, .	1.4	1
813	Variance of Bottom Water Temperature at the Continental Margin of the Northern South China Sea. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC015843.	1.0	2
814	Generation, propagation and dissipation of internal tides on the continental shelf and slope off the west coast of India. <i>Continental Shelf Research</i> , 2021, 214, 104321.	0.9	6
815	Tidal and Near-Inertial Internal Waves over the Reykjanes Ridge. <i>Journal of Physical Oceanography</i> , 2021, 51, 419-437.	0.7	11
816	Southern Ocean Heat Storage, Reemergence, and Winter Sea Ice Decline Induced by Summertime Winds. <i>Journal of Climate</i> , 2021, 34, 1403-1415.	1.2	9
817	The Southern Ocean during the ice ages: A review of the Antarctic surface isolation hypothesis, with comparison to the North Pacific. <i>Quaternary Science Reviews</i> , 2021, 254, 106732.	1.4	46
818	A Unifying Perspective on Transfer Function Solutions to the Unsteady Ekman Problem. <i>Fluids</i> , 2021, 6, 85.	0.8	2
819	Experimental evidence of internal wave attractor signatures hidden in large-amplitude multi-frequency wave fields. <i>Journal of Fluid Mechanics</i> , 2021, 915, .	1.4	5
820	Seasonal and Interannual Variability of EAPE in the South China Sea Derived from ECCO2 Data from 1997 to 2019. <i>Water (Switzerland)</i> , 2021, 13, 926.	1.2	1
821	Quantifying Flow Speeds by Using Microstructure Shear and Temperature Spectral Analysis. <i>Journal of Atmospheric and Oceanic Technology</i> , 2021, 38, 645-656.	0.5	3
822	Four Types of Baroclinic Instability Waves in the Global Oceans and the Implications for the Vertical Structure of Mesoscale Eddies. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016966.	1.0	15
823	Transient generation of spiral inertia-gravity waves from a geostrophic vortex. <i>Physics of Fluids</i> , 2021, 33, 032119.	1.6	4
824	Quantifying mixing and available potential energy in vertically periodic simulations of stratified flows. <i>Journal of Fluid Mechanics</i> , 2021, 914, .	1.4	5

#	ARTICLE	IF	CITATIONS
825	Energy Flux into Near-Inertial Internal Waves Below the Surface Boundary Layer in the Global Ocean. <i>Journal of Physical Oceanography</i> , 2021, , .	0.7	2
826	Impact of Background Geostrophic Currents With Vorticity on Resonant Triad Interaction Over Midâ€Ocean Ridges. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017227.	1.0	1
827	The Threeâ€Dimensional Internal Tide Radiation and Dissipation in the Mariana Arcâ€Trench System. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016502.	1.0	19
828	The Evolution and Arrest of a Turbulent Stratified Oceanic Bottom Boundary Layer over a Slope: Upslope Regime and PV Dynamics. <i>Journal of Physical Oceanography</i> , 2021, 51, 1077-1089.	0.7	7
829	A Modified Finescale Parameterization for Turbulent Mixing in the Western Equatorial Pacific. <i>Journal of Physical Oceanography</i> , 2021, 51, 1133-1143.	0.7	2
830	On Windâ€Driven Energetics of Subtropical Gyres. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002329.	1.3	8
831	Global changes in oceanic mesoscale currents over the satellite altimetry record. <i>Nature Climate Change</i> , 2021, 11, 397-403.	8.1	80
832	The Influence of Wind-Induced Waves on ENSO Simulations. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 457.	1.2	0
833	The Effect of Bottom â€Generated Tidal Mixing on Tidally Pulsed River Plumes. <i>Journal of Physical Oceanography</i> , 2021, , .	0.7	5
834	Observational estimates of turbulent mixing in the southeast Indian Ocean. <i>Journal of Physical Oceanography</i> , 2021, , .	0.7	2
835	Effects of Buoyancy Flux on Upperâ€Ocean Turbulent Mixing Generated by Nonâ€Breaking Surface Waves Observed in the South China Sea. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016816.	1.0	2
836	Model Simulation of M2 Internal Tide at the Mariana Double Ridges. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 592.	1.2	1
837	The Scale and Activity of Symmetric Instability Estimated from a Global Submesoscale-Permitting Ocean Model. <i>Journal of Physical Oceanography</i> , 2021, 51, 1655-1670.	0.7	24
838	Roles of the Rocky Mountains in the Atlantic and Pacific Meridional Overturning Circulations. <i>Journal of Climate</i> , 2021, , 1-41.	1.2	0
839	Enhanced internal tidal mixing in the Philippine Sea mesoscale environment. <i>Nonlinear Processes in Geophysics</i> , 2021, 28, 271-284.	0.6	8
840	Rates and Mechanisms of Turbulent Mixing in a Coastal Embayment of the West Antarctic Peninsula. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016861.	1.0	4
841	Statistical properties of a model of a turbulent patch arising from a breaking internal wave. <i>Physics of Fluids</i> , 2021, 33, 055107.	1.6	2
842	The uranium isotopic record of shales and carbonates through geologic time. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 300, 164-191.	1.6	28



#	ARTICLE	IF	CITATIONS
843	Near-inertial dissipation due to stratified flow over abyssal topography. <i>Journal of Physical Oceanography</i> , 2021, , .	0.7	3
844	Energetics of Eddy-Mean Flow Interactions in the Amery Ice Shelf Cavity. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	1
845	High-Resolution Observations of Upwelling and Front in Daya Bay, South China Sea. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 657.	1.2	3
846	Estimation of the Vertical Turbulent Exchange Intensity in the Main Pycnocline Layer in the Prikerchensky Area of the Black Sea Shelf. <i>Ekologicheskaya Bezopasnost Pribrezhnoy I Shel Fovoy Zon Morya</i> , 2021, , .	0.2	0
847	Dynamics of semi- and neutrally-buoyant particles in thermally stratified turbulent channel flow. <i>International Journal of Multiphase Flow</i> , 2021, 139, 103595.	1.6	1
848	Mixing Efficiency for Breaking Internal Solitary Waves. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017275.	1.0	12
849	Log-Skew-Normality of Ocean Turbulence. <i>Physical Review Letters</i> , 2021, 126, 224502.	2.9	21
850	Influence of the Kuroshio Intrusion on Deep Flow Intraseasonal Variability in the Northern South China Sea. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017429.	1.0	9
851	Contrasted mixing efficiency in energetic versus quiescent regions: Insights from microstructure measurements in the Western Mediterranean Sea. <i>Progress in Oceanography</i> , 2021, 195, 102594.	1.5	3
852	On the vertical structure of internal solitary waves in the northeastern South China Sea. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2021, 173, 103550.	0.6	12
853	Scale of oceanic eddy killing by wind from global satellite observations. <i>Science Advances</i> , 2021, 7, .	4.7	38
854	Laboratory experiments on the influence of stratification and a bottom sill on seiche damping. <i>Ocean Science</i> , 2021, 17, 997-1009.	1.3	1
855	Turbulence theories and statistical closure approaches. <i>Physics Reports</i> , 2021, 935, 1-117.	10.3	49
856	The Climates of Earth's Next Supercontinent: Effects of Tectonics, Rotation Rate, and Insolation. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009983.	1.0	2
857	Developing horizontal convection against stable temperature stratification in a rectangular container. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	4
858	Multiscale fractal dimension analysis of a reduced order model of coupled ocean-atmosphere dynamics. <i>Earth System Dynamics</i> , 2021, 12, 837-855.	2.7	8
859	Bottom Mixing Enhanced by Tropical Storm-Generated Near-Inertial Waves Entering Critical Layers in the Straits of Florida. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093773.	1.5	1
860	Optimal perturbation growth on a breaking internal gravity wave. <i>Journal of Fluid Mechanics</i> , 2021, 925, .	1.4	2



#	ARTICLE	IF	CITATIONS
861	Vertical Transfer of Momentum by Inertia-Gravity Internal Waves on a Two-Dimensional Shear Flow. <i>Morskoy Gidrofizicheskiy Zhurnal</i> , 2021, 37, .	0.1	0
862	Geostatistical Seismic Inversion for Temperature and Salinity in the Madeira Abyssal Plain. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	7
863	Ocean Circulation on Enceladus with a High- versus Low-salinity Ocean. <i>Planetary Science Journal</i> , 2021, 2, 151.	1.5	31
864	Resolvent analysis of stratification effects on wall-bounded shear flows. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	7
865	Revealing the Impact of Global Heating on North Atlantic Circulation Using Transparent Machine Learning. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002496.	1.3	16
866	Enhanced vertical mixing in the glacial ocean inferred from sedimentary carbon isotopes. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	2.6	6
867	Variability and Sources of the Internal Wave Continuum Examined from Global Moored Velocity Records. <i>Journal of Physical Oceanography</i> , 2021, 51, 2807-2823.	0.7	12
868	Spatial variability of diapycnal mixing in the South China Sea inferred from density overturn analysis. <i>Journal of Physical Oceanography</i> , 2021, , .	0.7	2
869	Laboratory investigation of turbulent dissipation in an internal solitary wave breaking over a submerged Gaussian ridge. <i>Physics of Fluids</i> , 2021, 33, 096602.	1.6	7
870	Time Series of Near-Inertial Gravity Wave Energy Fluxes: The Effect of a Strong Wind Event. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017472.	1.0	3
871	Pressure fields in the airflow over wind-generated surface waves. <i>Journal of Physical Oceanography</i> , 2021, , .	0.7	2
872	Turbulent Channel Flow With Spatially Dependent Viscosity: A Numerical Study. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2022, 144, .	0.8	2
873	Oceanic Mesoscale Eddy Depletion Catalyzed by Internal Waves. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094376.	1.5	19
874	Numerical study on the spatial and temporal characteristics of nonlinear internal wave energy in the Northern South China sea. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2021, 178, 103640.	0.6	4
875	Energy and enstrophy cascades in the geostrophic vortex with slowly varying inertia-gravity wave spirals. <i>Physics of Fluids</i> , 2021, 33, 096604.	1.6	0
876	A comparative study of linear and step forcing temperature profiles in horizontal convection <sup>(a)</sup>. <i>Europhysics Letters</i> , 2021, 135, 24006.	0.7	0
877	Rotating Horizontal Convection. <i>Annual Review of Fluid Mechanics</i> , 2022, 54, 105-132.	10.8	10
878	Relative vs. absolute wind stress in a circumpolar model of the Southern Ocean. <i>Ocean Modelling</i> , 2021, 168, 101891.	1.0	6

#	ARTICLE	IF	CITATIONS
879	Turbulent mixing and its contribution to the oxygen flux in the northwestern boundary current region of the Japan/East Sea, April–October 2015. <i>Journal of Marine Systems</i> , 2021, 224, 103619.	0.9	5
880	The lifecycle of topographically-generated internal waves. , 2022, , 117-144.		3
881	The role of mixing in the large-scale ocean circulation. , 2022, , 35-63.		11
882	The lifecycle of surface-generated near-inertial waves. , 2022, , 95-115.		3
883	Stability analysis of a resonant triad in a stratified uniform shear flow. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	4
884	The Arctic Ocean as a Coupled Oscillating System to the Forced 18.6 Year Lunar Gravity Cycle. , 2007, , 281-290.		2
885	Is Oceanic Heat Transport Significant in the Climate System?. , 2008, , 87-109.		51
886	The IDEMIX Model: Parameterization of Internal Gravity Waves for Circulation Models of Ocean and Atmosphere. <i>Mathematics of Planet Earth</i> , 2019, , 87-125.	0.1	4
887	Very large internal waves in the ocean – observations and nonlinear models. , 2006, , 205-270.		7
888	Turbulence, Horizontal Convection, and the Ocean’s Meridional Overturning Circulation. <i>Springer INdAM Series</i> , 2016, , 15-32.	0.4	1
889	A Numerical Study of Turbulent Stably-Stratified Plane Couette Flow. , 2011, , 251-261.		2
890	Tides and Internal Waves on the Continental Shelf. , 2011, , 225-235.		1
891	Estimates of Mixing. , 2009, , 288-298.		1
892	The sensitivity of a depth-coordinate model to diapycnal mixing induced by practical implementations of the isopycnal tracer diffusion scheme. <i>Ocean Modelling</i> , 2020, 154, 101693.	1.0	25
896	Convective instabilities. , 2005, , 115-143.		1
898	Nonlinear bubble competition of the multimode ablative Rayleigh–Taylor instability and applications to inertial confinement fusion. <i>Physics of Plasmas</i> , 2020, 27, .	0.7	21
899	Internal wave pressure, velocity, and energy flux from density perturbations. <i>Physical Review Fluids</i> , 2016, 1, .	1.0	9
900	Flows driven by libration, precession, and tides in planetary cores. <i>Physical Review Fluids</i> , 2016, 1, .	1.0	10

#	ARTICLE	IF	CITATIONS
901	Recent progress in modeling imbalance in the atmosphere and ocean. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	16
902	Viscous reflection of internal waves from a slope. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	5
903	Generation of weakly nonlinear turbulence of internal gravity waves in the Coriolis facility. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	15
904	Application of classical thermodynamic principles to the study of oceanic overturning circulation. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2004, 56, 371-386.	0.8	10
905	The distribution of eddy kinetic and potential energies in the global ocean. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2010, 62, 92-108.	0.8	35
906	Rayleigh-Taylor Instability: A Status Review of Experimental Designs and Measurement Diagnostics. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2020, 142, .	0.8	30
907	The Drag on the Barotropic Tide due to the Generation of Baroclinic Motion. <i>Journal of Physical Oceanography</i> , 2020, 50, 3467-3481.	0.7	5
908	Global Characterization of the Ocean's Internal Wave Spectrum. <i>Journal of Physical Oceanography</i> , 2020, 50, 1871-1891.	0.7	16
909	On PSI Interactions in Internal Gravity Wave Fields and the Decay of Baroclinic Tides. <i>Journal of Physical Oceanography</i> , 2020, 50, 751-771.	0.7	20
910	Internal Tide Nonstationarity and Wave-Mesoscale Interactions in the Tasman Sea. <i>Journal of Physical Oceanography</i> , 2020, 50, 2931-2951.	0.7	16
911	Overturning Circulation Pathways in a Two-Basin Ocean Model. <i>Journal of Physical Oceanography</i> , 2020, 50, 2105-2122.	0.7	16
912	Confusion Reigns? A Review of Marine Megafauna Interactions with Tidal-Stream Environments. <i>Oceanography and Marine Biology</i> , 2015, , 1-54.	1.0	41
913	Speculations on a schematic theory of the Younger Dryas. <i>Journal of Marine Research</i> , 2005, 63, 315-333.	0.3	11
914	Intrinsic Breaking of Internal Solitary Waves in a Deep Lake. <i>PLoS ONE</i> , 2012, 7, e41674.	1.1	11
915	Modeling Complexity: The Case of Climate Science. , 2013, , 229-254.		8
918	Vertical distribution of transparent exopolymer particle (TEP) concentration in the oligotrophic western tropical North Pacific. <i>Marine Ecology - Progress Series</i> , 2014, 513, 29-37.	0.9	19
919	From Discovery to discovery: the hydrology of the Southern Ocean, 1885-1937. <i>Archives of Natural History</i> , 2005, 32, 246-264.	0.0	6
920	Oceanographic Considerations for Exoplanet Life Detection. <i>Astrophysical Journal</i> , 2020, 895, 19.	1.6	36

#	ARTICLE	IF	CITATIONS
921	Un enfoque fisiológico para los procesos oceánicos y los cambios glaciales-interglaciales del CO <sub>2</sub> atmosférico. Scientia Marina, 2008, 72, .	0.3	2
922	Theoretical Assessment of Ocean Current Energy Potential for the Gulf Stream System. Marine Technology Society Journal, 2013, 47, 101-112.	0.3	61
923	Nonlinear inertia-gravity wave-mode interactions in three dimensional rotating stratified flows. Communications in Mathematical Sciences, 2010, 8, 357-376.	0.5	10
929	Measuring the Global Ocean Surface Circulation with Satellite and In Situ Observations. , 2010, , .		12
930	Problems and Prospects in Large-Scale Ocean Circulation Models. , 2010, , .		18
931	Using Global Arrays to Investigate Internal-Waves and Mixing. , 2010, , .		11
932	Planetary climate under extremely high vertical diffusivity. Astronomy and Astrophysics, 2022, 658, A33.	2.1	1
933	Vertical coupling and dynamical source for the intraseasonal variability in the deep Kuroshio Extension. Ocean Dynamics, 2021, 71, 1069.	0.9	3
934	The influence of far field stratification on shear-induced turbulent mixing. Journal of Fluid Mechanics, 2021, 928, .	1.4	13
935	An Improved Parameterization of Wind-Driven Turbulent Vertical Mixing Based on an Eddy-Resolving Climate Model. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002630.	1.3	1
936	The characteristics of spontaneous near-inertial wave generation from an anticyclonic mesoscale eddy. Journal of Oceanology and Limnology, 0, , 1.	0.6	0
937	A study of capturing Atlantic meridional overturning circulation (AMOC) regime transition through observation-constrained model parameters. Nonlinear Processes in Geophysics, 2021, 28, 481-500.	0.6	3
938	Shallow seas. , 2005, , 269-290.		0
939	Instability and breaking of internal waves in mid-water. , 2005, , 144-171.		0
941	Large-scale waves, eddies and dispersion. , 2005, , 340-367.		0
942	Instability and transition to turbulence in stratified shear flows. , 2005, , 80-114.		1
943	The upper ocean boundary layer. , 2005, , 228-268.		0
946	Neutral stability: internal waves. , 2005, , 44-79.		0

#	ARTICLE	IF	CITATIONS
947	Topographically related turbulence. , 2005, , 321-339.		0
948	Fine-structure, transient-structures, and turbulence in the pycnocline. , 2005, , 190-212.		0
950	The measurement of turbulence and mixing. , 2005, , 172-189.		1
952	Structure and rÃ©sumÃ©. , 2005, , xiv-xvi.		0
954	Ocean Current Changes as an Indicator of Global Change. , 2009, , 349-366.		0
959	ADVANCES IN THE STUDY OF PALEOTEMPESTOLOGY. Marine Geology & Quaternary Geology, 2011, 31, 171-178.	0.1	1
960	Thermodynamics of the Oceanic General Circulation â€œ Is the Abyssal Circulation a Heat Engine or a Mechanical Pump?. , 0, , .		0
961	Ocean, Energy Flows in. , 2013, , .		2
962	The Onset Mechanisms of the Spawning Migrations of Anguillid Eels. , 2013, , 64-88.		1
966	Mathematical Modelling Describing Effects of Corrugation Scales on Efficiency of Mixing in the Vicinity of Ocan's Deep Continental Slope. Journal of Aquaculture & Marine Biology, 2017, 5, .	0.2	0
967	A review of wind-induced near-inertial gravity waves propagating in background flows. Oceanography in Japan, 2017, 26, 227-237.	0.5	0
968	Generation of Vertical Fine Structure by Internal Waves in a Shear Flow. Open Journal of Fluid Dynamics, 2019, 09, 140-157.	0.3	3
969	Vertical dispersion of Lagrangian tracers in fully developed stably stratified turbulence. Physical Review Fluids, 2019, 4, .	1.0	3
970	A numerical modeling study on the energy budgets of the general circulation of the ocean. Oceanography in Japan, 2019, 28, 19-40.	0.5	0
971	Modeling of gravity currents in oceans and inland reservoirs. Visnik Nacional Noi Akademii Nauk Ukraini, 2019, , 31-37.	0.0	0
972	Vertical Transport of Momentum by Internal Waves in a Shear Current. Izvestiya - Atmospheric and Oceanic Physics, 2019, 55, 662-668.	0.2	5
973	Energy Spectrum of Linear Internal Wave Field in the Vicinity of Continental Slope. Journal of Applied Mathematics and Physics, 2020, 08, 2256-2274.	0.2	0
974	Surface boundary conditions strongly affect the dynamics of rotating horizontal convection. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
975	The meridional overturning circulation and the impact of the Arctic Mediterranean on the world ocean. , 2022, , 479-512.		0
976	FIO-ESM: The Earth System Model Coupled with Ocean Surface Gravity Waves. Climate Change Research Letters, 2020, 09, 26-39.	0.0	0
977	Towards a Global Spectral Energy Budget for Internal Gravity Waves in the Ocean. Journal of Physical Oceanography, 2020, 50, 935-944.	0.7	3
978	On the Magnitude of Canyon-Induced Mixing. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017671.	1.0	4
981	The distribution of eddy kinetic and potential energies in the global ocean. Tellus, Series A: Dynamic Meteorology and Oceanography, 2010, , .	0.8	1
982	Dynamical analysis of submesoscale fronts associated with wind-forced offshore jet in the western South China Sea. Acta Oceanologica Sinica, 2020, 39, 1-12.	0.4	22
983	Characterizing the ocean with acoustic waves: from seismic oceanography imaging to inversion. , 2021, , .		0
984	Modeling and simulation of transitional Rayleigh-Taylor flow with partially averaged Navier-Stokes equations. Physics of Fluids, 2021, 33, .	1.6	7
985	Impacts of Momentum Fluxes Modulated by Surface Waves on Near-Inertial Motions in Tropical Cyclones. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017795.	1.0	0
986	Data-Driven Identification of Turbulent Oceanic Mixing From Observational Microstructure Data. Geophysical Research Letters, 2021, 48, .	1.5	8
987	Observations of Internal Structure Changes in Shoaling Internal Solitary Waves Based on Seismic Oceanography Method. Frontiers in Marine Science, 2021, 8, .	1.2	4
988	Joint Estimation of Balanced Motions and Internal Tides From Future Wide-Swath Altimetry. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002613.	1.3	5
989	Preparing Sustainability-Literate Teachers. Teachers College Record, 2009, 111, 409-442.	0.4	132
990	Stable channel flow with spanwise heterogeneous surface temperature. Journal of Fluid Mechanics, 2022, 933, .	1.4	3
991	Global Estimate of Tropical Cyclone-Induced Diapycnal Mixing and Its Links to Climate Variability. Journal of Geophysical Research: Oceans, 2022, 127, e2021JC017950.	1.0	1
992	Estimating Open Ocean Vertical Current Velocity from Glider Flight Characteristics: application to mixing processes in the Gulf of Mexico. , 2020, , .		1
993	Characteristics of Wind-Generated Near-Inertial Waves in the Southeast Indian Ocean. Journal of Physical Oceanography, 2022, 52, 557-578.	0.7	0
994	Subsurface warm biases in the tropical Atlantic and their attributions to the role of wind forcing and ocean vertical mixing. Journal of Climate, 2022, , 1-28.	1.2	2

#	ARTICLE	IF	CITATIONS
995	Mean and Turbulent Characteristics of a Bottom Mixing Layer Forced by a Strong Surface Tide and Large Amplitude Internal Waves. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	1.0	6
996	The climate system and the second law of thermodynamics. <i>Reviews of Modern Physics</i> , 2022, 94, .	16.4	14
997	Circulation Driven by Multi-hump Turbulent Mixing Over a Seamount in the South China Sea. <i>Frontiers in Marine Science</i> , 2022, 8, .	1.2	2
998	Prediction of the ocean water sound speeds via attribute-guided seismic waveform inversion. <i>Geophysics</i> , 2022, 87, U67-U79.	1.4	3
999	Dissipation of mesoscale eddies at a western boundary via a direct energy cascade. <i>Scientific Reports</i> , 2022, 12, 887.	1.6	7
1000	A Marginal Stability Paradigm for Shear-Induced Diapycnal Turbulent Mixing in the Ocean. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	8
1001	Robustness of Competing Climatic States. <i>Journal of Climate</i> , 2022, 35, 2769-2784.	1.2	8
1002	On diffraction and oblique interactions of horizontally two-dimensional internal solitary waves. <i>Journal of Fluid Mechanics</i> , 2022, 936, .	1.4	6
1003	Almost-sure exponential mixing of passive scalars by the stochastic Navier-Stokes equations. <i>Annals of Probability</i> , 2022, 50, .	0.8	8
1004	Baroclinic Tidal Energetics Inferred from Satellite Altimetry. <i>Journal of Physical Oceanography</i> , 2022, 52, 1015-1032.	0.7	6
1005	Note on the Bulk Estimate of the Energy Dissipation Rate in the Oceanic Bottom Boundary Layer. <i>Fluids</i> , 2022, 7, 82.	0.8	0
1006	Diagnostics of Coherent Eddy Transport in the South China Sea Based on Satellite Observations. <i>Remote Sensing</i> , 2022, 14, 1690.	1.8	3
1007	Energetics and Mixing of Stratified, Rotating Flow over Abyssal Hills. <i>Journal of Physical Oceanography</i> , 2022, 52, 1155-1177.	0.7	1
1008	Ocean tides can drag the atmosphere and cause tidal winds over broad continental shelves. <i>Communications Earth &amp; Environment</i> , 2022, 3, .	2.6	4
1009	Physics-informed deep-learning parameterization of ocean vertical mixing improves climate simulations. <i>National Science Review</i> , 2022, 9, .	4.6	29
1010	Structure of Sea Surface Temperature Anomaly Induced by Mesoscale Eddies in the North Pacific Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	1.0	4
1011	Seasonal Variation and Governing Dynamics of the Mixed Layer in the Indian Sector of the Southern Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	1.0	0
1012	Intense upper ocean mixing due to large aggregations of spawning fish. <i>Nature Geoscience</i> , 2022, 15, 287-292.	5.4	6

#	ARTICLE	IF	CITATIONS
1013	Internal Tides and Their Intraseasonal Variability on the Continental Slope Northeast of Taiwan Island Derived from Mooring Observations and Satellite Data. <i>Remote Sensing</i> , 2022, 14, 59.	1.8	1
1014	The effect of tidal force and topography on horizontal convection. <i>Journal of Fluid Mechanics</i> , 2022, 932, .	1.4	0
1015	Exploiting self-organized criticality in strongly stratified turbulence. <i>Journal of Fluid Mechanics</i> , 2022, 933, .	1.4	7
1016	Effects of an along-shelf current on the generation of internal tides near the critical latitude. <i>Journal of Fluid Mechanics</i> , 2022, 932, .	1.4	1
1022	Ocean Energy, Fluxes and an Anti-Anti-Turbulence Conjecture. <i>Ocean and Coastal Research</i> , 2022, 70, .	0.3	1
1023	Lagrangian Vertical Spreading and Its Relation to Diapycnal Diffusivity. <i>Journal of Physical Oceanography</i> , 2022, 52, 857-871.	0.7	1
1024	Turbulent mixing variability in an energetic standing meander of the Southern Ocean. <i>Journal of Physical Oceanography</i> , 2022, , .	0.7	0
1025	Hydroacoustic travel time variations as a proxy for passive deep-ocean thermometry – a cookbook. <i>Journal of Geophysical Research: Oceans</i> , 0, , .	1.0	0
1026	Enhanced Near-Inertial Waves and Turbulent Diapycnal Mixing Observed in a Cold- and Warm-Core Eddy in the Kuroshio Extension Region. <i>Journal of Physical Oceanography</i> , 2022, , .	0.7	0
1027	Seasonality of Four Types of Baroclinic Instability in the Global Oceans. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	1.0	6
1028	The geography of near-shelf mixing on the east coast of South Africa. <i>Environmental Fluid Mechanics</i> , 0, , .	0.7	1
1029	Incorporating tides and internal gravity waves within global ocean general circulation models: A review. <i>Progress in Oceanography</i> , 2022, 206, 102824.	1.5	19
1030	The Statistics of Oceanic Turbulence Measurements. Part I: Shear Variance and Dissipation Rates. <i>Journal of Atmospheric and Oceanic Technology</i> , 2022, 39, 1259-1271.	0.5	5
1031	A laboratory study of internal gravity waves incident upon slopes with varying surface roughness. <i>Journal of Fluid Mechanics</i> , 2022, 942, .	1.4	0
1032	Global characterization of oscillating grid turbulence in homogeneous and two-layer fluids, and its implication for mixing at high Peclet number. <i>Physical Review Fluids</i> , 2022, 7, .	1.0	2
1033	The Generation of Linear and Nonlinear Internal Waves Forced by Subinertial Tides over the Yermak Plateau, Arctic Ocean. <i>Journal of Physical Oceanography</i> , 2022, 52, 2183-2203.	0.7	5
1034	Formulation of a new explicit tidal scheme in revised LICOM2.0. <i>Geoscientific Model Development</i> , 2022, 15, 4259-4273.	1.3	2
1035	Characterization of intraseasonal fluctuations in the abyssal South China Sea: An insight into the energy pathway. <i>Progress in Oceanography</i> , 2022, 206, 102829.	1.5	4



#	ARTICLE	IF	CITATIONS
1038	The Next Decade of Seismic Oceanography: Possibilities, Challenges and Solutions. <i>Frontiers in Marine Science</i> , 0, 9, .	1.2	1
1039	Velocity perturbations and Reynolds stresses in Holmboe instabilities. <i>Physics of Fluids</i> , 2022, 34, .	1.6	5
1040	Decrease of Annually Accumulated Tropical Cyclone-Induced Sea Surface Cooling and Diapycnal Mixing in Recent Decades. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	5
1041	Mixing driven by critical reflection of near-inertial waves over the Texas-Louisiana shelf. <i>Journal of Physical Oceanography</i> , 2022, , .	0.7	1
1042	The Atlantic Multi-Decadal Oscillation. <i>Atmosphere - Ocean</i> , 2022, 60, 307-337.	0.6	5
1043	Climatology, Seasonality, and Trends of Spatially Coherent Ocean Eddies. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	1.0	10
1044	Instability of a Surface Jet over Rough Topography. <i>Journal of Physical Oceanography</i> , 2022, 52, 2725-2740.	0.7	2
1045	Stratified turbulent mixing in oscillating shear flows. <i>Journal of Fluid Mechanics</i> , 2022, 944, .	1.4	4
1046	Mixing in the Philippine Sea: Geography variability and parameterization. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2022, 202, 105143.	0.6	1
1047	How does salinity shape ocean circulation and ice geometry on Enceladus and other icy satellites?. <i>Science Advances</i> , 2022, 8, .	4.7	31
1048	Transitional Fluctuations of Thermal Boundary Layer in Horizontal Convection. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1049	Different Ice-shell Geometries on Europa and Enceladus due to Their Different Sizes: Impacts of Ocean Heat Transport. <i>Astrophysical Journal</i> , 2022, 934, 116.	1.6	12
1050	Vertical structural variability of diurnal internal tides inside a mesoscale anticyclonic eddy based on single virtual-moored Slocum glider observations. <i>Frontiers in Marine Science</i> , 0, 9, .	1.2	2
1051	Some new insights for inferring diapycnal (irreversible) diffusivity in stably stratified turbulence. <i>Physics of Fluids</i> , 2022, 34, .	1.6	0
1052	Impact of Vertical Mixing Parameterizations on Internal Gravity Wave Spectra in Regional Ocean Models. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	5
1053	Wake Vortices and Dissipation in a Tidally Modulated Flow Past a Three-Dimensional Topography. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	1.0	4
1054	Dynamics and energetics underlying mixing efficiency in homogeneous stably stratified turbulence. <i>Physical Review Fluids</i> , 2022, 7, .	1.0	3
1055	On Icy Ocean Worlds, Size Controls Ice Shell Geometry. <i>Astrophysical Journal</i> , 2022, 935, 103.	1.6	6

#	ARTICLE	IF	CITATIONS
1056	Insights into the Mixing Efficiency of Submesoscale Centrifugalâ€“Symmetric Instabilities. <i>Journal of Physical Oceanography</i> , 2022, 52, 2273-2287.	0.7	2
1057	Turbulent dissipation rates across the Summer Monsoon Current. <i>Ocean Dynamics</i> , 2022, 72, 695-714.	0.9	1
1058	On the role of wave breaking in ocean dynamics under typhoon Matsa in the Bohai Sea, China. <i>Acta Oceanologica Sinica</i> , 2022, 41, 1-18.	0.4	0
1059	A global ocean state estimation using tidally induced vertical-mixing schemes. <i>Ocean Modelling</i> , 2022, 179, 102111.	1.0	1
1060	Why is there a tide?. , 2023, , 81-113.		0
1061	Proterozoic (2500â€“541 Ma). , 2023, , 143-156.		0
1062	Present day: Tides in a changing climate. , 2023, , 185-229.		1
1063	A physicalâ€“statistical recipe for representation of small-scale oceanic turbulent mixing in climate models. <i>Flow</i> , 2022, 2, .	1.0	3
1064	Copernicus Ocean State Report, issue 6. <i>Journal of Operational Oceanography</i> , 2022, 15, 1-220.	0.6	20
1065	Submesoscale Dynamics in the Upper Ocean. <i>Annual Review of Fluid Mechanics</i> , 2023, 55, 103-127.	10.8	13
1066	Multi-time scale control of Southern Ocean diapycnal mixing over Atlantic tracer budgets. <i>Climate Dynamics</i> , 2023, 60, 3039-3050.	1.7	3
1067	Global coarse-grained mesoscale eddy statistics based on integrated kinetic energy and enstrophy correlations. <i>Ocean Science</i> , 2022, 18, 1361-1375.	1.3	0
1068	The nonlinear evolution of internal tides. Part 2. Lagrangian transport by periodic and modulated waves. <i>Journal of Fluid Mechanics</i> , 2022, 948, .	1.4	0
1069	Diagnosing Scale-Dependent Energy Cycles in a High-Resolution Isopycnal Ocean Model. <i>Journal of Physical Oceanography</i> , 2023, 53, 157-176.	0.7	8
1070	Experimental observations of internal wave turbulence transition in a stratified fluid. <i>Physical Review Fluids</i> , 2022, 7, .	1.0	11
1071	Potential and Limitations of a Commercial Broadband Echo Sounder for Remote Observations of Turbulent Mixing. <i>Journal of Atmospheric and Oceanic Technology</i> , 2022, 39, 1985-2003.	0.5	5
1073	Improved upper-ocean thermodynamical structure modeling with combined effects of surface waves and $M_2$ internal tides on vertical mixing: a case study for the Indian Ocean. <i>Geoscientific Model Development</i> , 2022, 15, 7221-7241.	1.3	1
1074	The nonlinear evolution of internal tides. Part 1: the superharmonic cascade. <i>Journal of Fluid Mechanics</i> , 2022, 948, .	1.4	4

#	ARTICLE	IF	CITATIONS
1075	Distinct roles of global cyclonic and anticyclonic eddies in regulating near-inertial internal waves in the ocean interior. <i>Frontiers in Marine Science</i> , 0, 9, .	1.2	1
1076	The Chicxulub Impact Produced a Powerful Global Tsunami. <i>AGU Advances</i> , 2022, 3, .	2.3	5
1077	Non-Local Eddy-Mean Kinetic Energy Transfers in Submesoscale-Permitting Ensemble Simulations. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	0
1078	The Impact of Representations of Realistic Topography on Parameterized Oceanic Lee Wave Energy Flux. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	1.0	7
1079	The Vertical Middepth Ocean Density Profile: An Interplay between Southern Ocean Dynamics and Interior Vertical Diffusivity. <i>Journal of Physical Oceanography</i> , 2022, 52, 2479-2492.	0.7	0
1080	Enhanced near-bottom circulation and mixing driven by the surface eddies over abyssal seamounts. <i>Progress in Oceanography</i> , 2022, 208, 102896.	1.5	0
1081	Lagrangian surface signatures reveal upper-ocean vertical displacement conduits near oceanic density fronts. <i>Ocean Modelling</i> , 2023, 181, 102136.	1.0	2
1082	Diapycnal mixing variations induced by subthermocline eddies observed in the north Pacific western boundary region. <i>Frontiers in Marine Science</i> , 0, 9, .	1.2	0
1083	Projected climate variability of internal waves in the Andaman Sea. <i>Communications Earth &amp; Environment</i> , 2022, 3, .	2.6	3
1084	Direct observational evidence of an oceanic dual kinetic energy cascade and its seasonality. <i>Science Advances</i> , 2022, 8, .	4.7	19
1085	On the Variation of Dissipation Flux Coefficient in the Upper South China Sea. <i>Journal of Physical Oceanography</i> , 2023, 53, 551-571.	0.7	0
1086	Similarity of the turbulent kinetic energy dissipation rate distribution in the upper mixed layer of the tropical Indian Ocean. <i>Frontiers in Marine Science</i> , 0, 9, .	1.2	0
1087	Observations of strong near-inertial currents induced by the reflection of tropical cyclone-induced near-inertial waves on the continental slope of the northern South China Sea. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2022, 190, 103893.	0.6	1
1088	The role of ocean circulation in driving hemispheric symmetry breaking of the ice shell of Enceladus. <i>Earth and Planetary Science Letters</i> , 2022, 599, 117845.	1.8	5
1089	Transitional fluctuations of thermal boundary layer in horizontal convection. <i>International Journal of Heat and Mass Transfer</i> , 2023, 200, 123542.	2.5	2
1090	Modified parameterization for near-inertial waves. <i>Acta Oceanologica Sinica</i> , 2022, 41, 41-53.	0.4	0
1091	Three-dimensional characteristics of mesoscale eddies simulated by a regional model in the northwestern Pacific Ocean during 2000-2008. <i>Acta Oceanologica Sinica</i> , 2022, 41, 74-93.	0.4	4
1092	The diffuselet concept for scalar mixing. <i>Journal of Fluid Mechanics</i> , 2022, 951, .	1.4	5

#	ARTICLE	IF	CITATIONS
1093	Effects of numerical model's horizontal resolution on the vertical transport of near-inertial energy. Deep-Sea Research Part II: Topical Studies in Oceanography, 2023, 207, 105223.	0.6	0
1094	Rotating horizontal convection with meridional ridges. Frontiers in Marine Science, 0, 9, .	1.2	0
1095	Introduction to the Special Issue on Numerical Methods and Applications for Waves in Coastal Environments. Water Waves, 2022, 4, 307-311.	0.3	0
1096	The long view of triadic resonance instability in finite-width internal gravity wave beams. Journal of Fluid Mechanics, 2022, 953, .	1.4	4
1097	Energetics of buoyancy-generated turbulent flows with active scalar: pure buoyant plume. Journal of Fluid Mechanics, 2023, 954, .	1.4	1
1098	Possible Mechanism for the Generation of Internal Waves by Submesoscale Eddies in the Mozambique Channel. Izvestiya - Atmospheric and Oceanic Physics, 2022, 58, 598-608.	0.2	0
1099	æµ·æ'ã®ã,ãf»æ:±ã±ã«ãããã,«é%»ç'æ<jæ•£ã¼4·ã° ã®ã...:çfã^tã,fã«é-çã™ã,ç†è«-çš,,ãf»è ³æ,-çš,,ç"ç©¶. Oceanography in Japan, 20		
1102	Diapycnal mixing in the Brazil-Malvinas confluence front. Progress in Oceanography, 2023, 211, 102968.	1.5	1
1103	Wind Power Input to Ocean Near-Inertial Waves Diagnosed From a 5km Global Coupled Atmosphere-Ocean General Circulation Model. Journal of Geophysical Research: Oceans, 2023, 128, .	1.0	2
1104	Energy Conversion Rate from Subinertial Surface Tides to Internal Tides. Journal of Physical Oceanography, 2023, 53, 1355-1374.	0.7	4
1105	Observation of near-inertial waves in the wake of four typhoons in the northern South China Sea. Scientific Reports, 2023, 13, .	1.6	0
1106	Impacts of inertial internal wave breaking mixing parameterization on a global ocean model. Progress in Oceanography, 2023, 212, 102997.	1.5	1
1107	Evolution of Bottom Boundary Layers on Three Dimensional Topography-Buoyancy Adjustment and Instabilities. Journal of Geophysical Research: Oceans, 2023, 128, .	1.0	2
1108	Experimental investigation of non-linear standing internal waves using combined density and velocity measurements. Experiments in Fluids, 2023, 64, .	1.1	0
1109	Mixing across stable density interfaces in forced stratified turbulence. Journal of Fluid Mechanics, 2023, 961, .	1.4	5
1131	Emerging microbial contaminants in the ocean. , 2023, , 315-350.		0