

Greg Ivey

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144
papers

4,721
citations

36
h-index

63
g-index

151
ext. papers

5,275
ext. citations

3.3
avg, IF

5.63
L-index

#	Paper	IF	Citations
144	On the Nature of Turbulence in a Stratified Fluid. Part I: The Energetics of Mixing. <i>Journal of Physical Oceanography</i> , 1991 , 21, 650-658	2.4	278
143	Density Stratification, Turbulence, but How Much Mixing?. <i>Annual Review of Fluid Mechanics</i> , 2008 , 40, 169-184	22	261
142	Parameterization of turbulent fluxes and scales using homogeneous sheared stably stratified turbulence simulations. <i>Journal of Fluid Mechanics</i> , 2005 , 525, 193-214	3.7	255
141	Vertical mixing due to the breaking of critical internal waves on sloping boundaries. <i>Journal of Fluid Mechanics</i> , 1989 , 204, 479	3.7	186
140	Magma-mixing and the dynamics of withdrawal from stratified reservoirs. <i>Journal of Volcanology and Geothermal Research</i> , 1986 , 27, 153-178	2.8	157
139	Experiments on mixing due to internal solitary waves breaking on uniform slopes. <i>Journal of Geophysical Research</i> , 1999 , 104, 13467-13477		153
138	The degeneration of large-scale interfacial gravity waves in lakes. <i>Journal of Fluid Mechanics</i> , 2001 , 434, 181-207	3.7	141
137	On the Nature of Turbulence in a Stratified Fluid. Part II: Application to Lakes. <i>Journal of Physical Oceanography</i> , 1991 , 21, 659-680	2.4	134
136	The degeneration of internal waves in lakes with sloping topography. <i>Limnology and Oceanography</i> , 2005 , 50, 1620-1637	4.8	124
135	Helium accumulation in groundwater. II: A model for the accumulation of the crustal 4He degassing flux. <i>Geochimica Et Cosmochimica Acta</i> , 1985 , 49, 2445-2452	5.5	118
134	Experiments on transient natural convection in a cavity. <i>Journal of Fluid Mechanics</i> , 1984 , 144, 389-401	3.7	116
133	High-frequency internal waves in large stratified lakes. <i>Limnology and Oceanography</i> , 2003 , 48, 895-919	4.8	99
132	Measurements of diapycnal diffusivities in stratified fluids. <i>Journal of Fluid Mechanics</i> , 2001 , 442, 267-293	3.7	92
131	Density and viscosity gradients in zoned magma chambers, and their influence withdrawal dynamics. <i>Journal of Volcanology and Geothermal Research</i> , 1986 , 30, 201-230	2.8	74
130	Flow separation and resuspension beneath shoaling nonlinear internal waves. <i>Journal of Geophysical Research</i> , 2009 , 114,		72
129	Localized mixing due to a breaking internal wave ray at a sloping bottom. <i>Journal of Fluid Mechanics</i> , 1997 , 350, 1-27	3.7	72
128	Upwelling on the south-west coast of Australia: Source of the Capes Current?. <i>Continental Shelf Research</i> , 1999 , 19, 363-400	2.4	72

127	Turbulent mixing in a sloping benthic boundary layer energized by internal waves. <i>Journal of Fluid Mechanics</i> , 2000 , 418, 59-76	3.7	67
126	Boundary mixing in a stratified fluid. <i>Journal of Fluid Mechanics</i> , 1982 , 121, 1	3.7	64
125	Nearshore circulation in a tropical fringing reef system. <i>Journal of Geophysical Research</i> , 2011 , 116,		63
124	Disaggregation of <i>Microcystis aeruginosa</i> colonies under turbulent mixing: laboratory experiments in a grid-stirred tank. <i>Hydrobiologia</i> , 2004 , 519, 143-152	2.4	62
123	Laboratory study of the interaction between two internal wave rays. <i>Journal of Fluid Mechanics</i> , 1997 , 336, 91-122	3.7	61
122	The energetics of large-scale internal wave degeneration in lakes. <i>Journal of Fluid Mechanics</i> , 2005 , 531, 159-180	3.7	59
121	Hydraulics and mixing in controlled exchange flows. <i>Journal of Geophysical Research</i> , 2001 , 106, 959-972		56
120	Axisymmetric withdrawal and inflow in a density-stratified container. <i>Journal of Fluid Mechanics</i> , 1985 , 161, 115	3.7	54
119	Estimating turbulent kinetic energy dissipation using the inertial subrange method in environmental flows. <i>Limnology and Oceanography: Methods</i> , 2011 , 9, 302-321	2.6	51
118	The Kelvin-Helmholtz to Holmboe instability transition in stratified exchange flows. <i>Journal of Fluid Mechanics</i> , 2003 , 477,	3.7	51
117	Shoaling internal solitary waves. <i>Journal of Geophysical Research: Oceans</i> , 2013 , 118, 4111-4124	3.3	46
116	Steady convective exchange flows down slopes. <i>Aquatic Sciences</i> , 1999 , 61, 260	2.5	42
115	The variation of flow and turbulence across the sediment-water interface. <i>Journal of Fluid Mechanics</i> , 2017 , 824, 413-437	3.7	41
114	Secondary circulation induced by flow curvature and Coriolis effects around headlands and islands. <i>Ocean Dynamics</i> , 2004 , 54, 27-38	2.3	41
113	The tidal regime of Shark Bay, Western Australia. <i>Estuarine, Coastal and Shelf Science</i> , 2003 , 57, 725-735	2.9	39
112	The variability of the large-amplitude internal wave field on the Australian North West Shelf. <i>Continental Shelf Research</i> , 2009 , 29, 1373-1383	2.4	37
111	A model of the vertical mixing in Lake Erie in summer. <i>Limnology and Oceanography</i> , 1984 , 29, 553-563	4.8	37
110	Turbulent mixing efficiency at an energetic ocean site. <i>Journal of Geophysical Research: Oceans</i> , 2013 , 118, 4662-4672	3.3	36

109	Numerical modelling of the mean flow characteristics of the Leeuwin Current System. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2007 , 54, 837-858	2.3	36
108	Processes controlling the position of frontal systems in Shark Bay, Western Australia. <i>Estuarine, Coastal and Shelf Science</i> , 2005 , 65, 463-474	2.9	35
107	A dissolved oxygen budget model for Lake Erie in summer. <i>Freshwater Biology</i> , 1985 , 15, 683-694	3.1	32
106	Hydrodynamic modelling of snapper <i>Pagrus auratus</i> egg and larval dispersal in Shark Bay, Western Australia: reproductive isolation at a fine spatial scale. <i>Marine Ecology - Progress Series</i> , 2003 , 265, 213-226	2.6	31
105	Impact of windage on ocean surface Lagrangian coherent structures. <i>Environmental Fluid Mechanics</i> , 2017 , 17, 473-483	2.2	30
104	Internal tide dynamics in a topographically complex region: Browse Basin, Australian North West Shelf. <i>Journal of Geophysical Research</i> , 2011 , 116,		30
103	A weakly nonlinear model of long internal waves in closed basins. <i>Journal of Fluid Mechanics</i> , 2002 , 467, 269-287	3.7	29
102	Linear internal waves and the control of stratified exchange flows. <i>Journal of Fluid Mechanics</i> , 2001 , 447, 357-375	3.7	29
101	Boundary mixing in stratified reservoirs. <i>Journal of Fluid Mechanics</i> , 1993 , 248, 477-491	3.7	29
100	Convectively driven exchange in a shallow coastal embayment. <i>Continental Shelf Research</i> , 1999 , 19, 1599-1616	2.8	28
99	Unsteady, Turbulent Convection into a Rotating, Linearly Stratified Fluid: Modeling Deep Ocean Convection. <i>Journal of Physical Oceanography</i> , 1995 , 25, 3032-3050	2.4	28
98	Environmental Factors and the Application of Hydrogen Peroxide for the Removal of Toxic Cyanobacteria from Waste Stabilization Ponds. <i>Journal of Environmental Engineering, ASCE</i> , 2011 , 137, 952-960	2	27
97	Simple mixing criteria for the growth of negatively buoyant phytoplankton. <i>Limnology and Oceanography</i> , 2003 , 48, 1326-1337	4.8	27
96	Atmospheric forcing intensifies the effects of regional ocean warming on reef-scale temperature anomalies during a coral bleaching event. <i>Journal of Geophysical Research: Oceans</i> , 2013 , 118, 4600-4616	3.3	26
95	Boundary mixing in a rotating, stratified fluid. <i>Journal of Fluid Mechanics</i> , 1987 , 183, 25-44	3.7	26
94	Experiments on the generation of internal waves over continental shelf topography. <i>Journal of Fluid Mechanics</i> , 2010 , 663, 385-400	3.7	25
93	A numerical model of wave- and current-driven nutrient uptake by coral reef communities. <i>Ecological Modelling</i> , 2011 , 222, 1456-1470	3	23
92	Particle capture and low-Reynolds-number flow around a circular cylinder. <i>Journal of Fluid Mechanics</i> , 2012 , 710, 362-378	3.7	23

91	A Model for Mass Transport Across the Sediment-Water Interface. <i>Water Resources Research</i> , 2018 , 54, 2799-2812	5.4	22
90	Near-inertial ocean response to tropical cyclone forcing on the Australian North-West Shelf. <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 7722-7751	3.3	22
89	Dynamics of Turbidity Current with Reversing Buoyancy. <i>Journal of Hydraulic Engineering</i> , 1996 , 122, 230-236	1.8	22
88	Convectively driven mixed layer growth in a rotating, stratified fluid. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1995 , 42, 331-349	2.5	22
87	Convection Near the Temperature of Maximum Density for High Rayleigh Number, Low Aspect Ratio, Rectangular Cavities. <i>Journal of Heat Transfer</i> , 1989 , 111, 100-105	1.8	22
86	Entrainment by bottom currents in Lake Erie. <i>Limnology and Oceanography</i> , 1982 , 27, 1029-1038	4.8	22
85	The effects of tropical cyclone characteristics on the surface wave fields in Australia's North West region. <i>Continental Shelf Research</i> , 2017 , 139, 35-53	2.4	21
84	Seasonal circulation and temperature variability near the North West Cape of Australia. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		21
83	A numerical study of the dynamics of the wave-driven circulation within a fringing reef system. <i>Ocean Dynamics</i> , 2012 , 62, 585-602	2.3	21
82	Effect of Long Internal Waves on the Quality of Water Withdrawn from a Stratified Reservoir. <i>Journal of Hydraulic Engineering</i> , 2006 , 132, 1134-1145	1.8	21
81	The role of boundary mixing in the deep ocean. <i>Journal of Geophysical Research</i> , 1987 , 92, 11873		21
80	Dynamics of the summer shelf circulation and transient upwelling off Ningaloo Reef, Western Australia. <i>Journal of Geophysical Research: Oceans</i> , 2013 , 118, 1099-1125	3.3	20
79	The influence of rotation on shelf convection. <i>Journal of Fluid Mechanics</i> , 1998 , 369, 23-48	3.7	20
78	Convectively driven coastal currents in a rotating basin. <i>Journal of Marine Research</i> , 1988 , 46, 473-494	1.5	19
77	Quantifying Diapycnal Mixing in an Energetic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2018 , 123, 346-357	3.3	18
76	Quantifying Lake Water Quality Evolution: Coupled Geochemistry, Hydrodynamics, and Aquatic Ecology in an Acidic Pit Lake. <i>Environmental Science & Technology</i> , 2017 , 51, 9864-9875	10.3	18
75	Internal-Tide Spectroscopy and Prediction in the Timor Sea. <i>Journal of Physical Oceanography</i> , 2015 , 45, 64-83	2.4	18
74	The combined influence of hydrodynamic forcing and calcification on the spatial distribution of alkalinity in a coral reef system. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		18

73	Submaximal exchange between a convectively forced basin and a large reservoir. <i>Journal of Fluid Mechanics</i> , 1999 , 378, 357-378	3.7	17
72	Determining Mixing Rates from Concurrent Temperature and Velocity Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017 , 34, 2283-2293	2	16
71	Internal wave evolution in a space-time varying field. <i>Journal of Fluid Mechanics</i> , 2000 , 424, 279-301	3.7	16
70	Unsteady convective exchange flows in cavities. <i>Journal of Fluid Mechanics</i> , 1998 , 368, 127-153	3.7	16
69	Observations of Large-Amplitude Mode-2 Nonlinear Internal Waves on the Australian North West Shelf. <i>Journal of Physical Oceanography</i> , 2019 , 49, 309-328	2.4	16
68	Particle capture by a circular cylinder in the vortex-shedding regime. <i>Journal of Fluid Mechanics</i> , 2013 , 733, 171-188	3.7	15
67	Estimating Turbulent Dissipation from Microstructure Shear Measurements Using Maximum Likelihood Spectral Fitting over the Inertial and Viscous Subranges. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016 , 33, 713-722	2	15
66	Resolving high-frequency internal waves generated at an isolated coral atoll using an unstructured grid ocean model. <i>Ocean Modelling</i> , 2018 , 122, 67-84	3	14
65	On convective turbulence and the influence of rotation. <i>Dynamics of Atmospheres and Oceans</i> , 1997 , 25, 217-232	1.9	14
64	Near-Surface Wind-Induced Mixing in a Mine Lake. <i>Journal of Hydraulic Engineering</i> , 2008 , 134, 1464-1472	2.8	14
63	Response Characteristics of a Buoyancy-Driven Sea. <i>Journal of Physical Oceanography</i> , 2001 , 31, 2721-2736	3.4	14
62	Cyanobacterial and microcystins dynamics following the application of hydrogen peroxide to waste stabilisation ponds. <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 2097-2105	5.5	13
61	Dynamics of a tidally-forced stratified shear flow on the continental slope. <i>Journal of Geophysical Research</i> , 2011 , 116,		13
60	Nutrient fluxes into an isolated coral reef atoll by tidally driven internal bores. <i>Limnology and Oceanography</i> , 2019 , 64, 461-473	4.8	13
59	Temporal variability of the standing internal tide in the Browse Basin, Western Australia. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		12
58	A numerical study of the eddying characteristics of the Leeuwin Current System. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2008 , 55, 261-276	2.5	12
57	The temporal evolution of baroclinic basin-scale waves in a rotating circular basin. <i>Journal of Fluid Mechanics</i> , 2005 , 523, 367-392	3.7	12
56	Convectively driven exchange flow in a stratified sill-enclosed basin. <i>Journal of Fluid Mechanics</i> , 2000 , 418, 313-338	3.7	12

55	Assessing internal and external controls on lake water quality: Limitations on organic carbon-driven alkalinity generation in acidic pit lakes. <i>Water Resources Research</i> , 2008 , 44,	5.4	11
54	Baroclinic geostrophic adjustment in a rotating circular basin. <i>Journal of Fluid Mechanics</i> , 2004 , 515, 63-86	5.7	11
53	Stratification and mixing in sea straits. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2004 , 51, 441-453	2.3	11
52	Observations of the shelf circulation dynamics along Ningaloo Reef, Western Australia during the austral spring and summer. <i>Continental Shelf Research</i> , 2015 , 95, 54-73	2.4	10
51	Modeling bed shear-stress fluctuations in a shallow tidal channel. <i>Journal of Geophysical Research: Oceans</i> , 2014 , 119, 3185-3199	3.3	10
50	The dynamics of internal wave resonance in periodically forced narrow basins. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		10
49	The generation of internal waves by tidal flow over continental shelf/slope topography. <i>Environmental Fluid Mechanics</i> , 2008 , 8, 511-526	2.2	10
48	Numerical simulation of the summer wake of Rottnest Island, Western Australia. <i>Dynamics of Atmospheres and Oceans</i> , 2007 , 43, 171-198	1.9	10
47	Observations of Enhanced Sediment Transport by Nonlinear Internal Waves. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088499	4.9	10
46	Density-ratio effects on the capture of suspended particles in aquatic systems. <i>Journal of Fluid Mechanics</i> , 2015 , 783, 191-210	3.7	9
45	A laboratory investigation into shear-generated mixing in a salt wedge estuary. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1997 , 85, 65-95	1.4	9
44	Convection in a long box driven by heating and cooling on the horizontal boundaries. <i>Journal of Fluid Mechanics</i> , 1996 , 310, 61-87	3.7	9
43	Wave-current interactions in the continental shelf bottom boundary layer of the Australian North West Shelf during tropical cyclone conditions. <i>Continental Shelf Research</i> , 2018 , 165, 78-92	2.4	8
42	Buoyancy fluxes in a stratified fluid. <i>Coastal and Estuarine Studies</i> , 1998 , 377-388		8
41	Rossby number regimes for isolated convection in a homogeneous, rotating fluid. <i>Dynamics of Atmospheres and Oceans</i> , 1999 , 30, 149-171	1.9	8
40	Confronting Grand Challenges in environmental fluid mechanics. <i>Physical Review Fluids</i> , 2021 , 6,	2.8	8
39	Development of a new risk-based framework to guide investment in water quality monitoring. <i>Environmental Monitoring and Assessment</i> , 2014 , 186, 2455-64	3.1	7
38	Mixing Driven by Breaking Nonlinear Internal Waves. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089591	4.9	7

37	The Hydrodynamic Response of the Sediment-Water Interface to Coherent Turbulent Motions. <i>Geophysical Research Letters</i> , 2018 , 45, 10,520	4.9	7
36	Contrasting Heat Budget Dynamics During Two La Niña Marine Heat Wave Events Along Northwestern Australia. <i>Journal of Geophysical Research: Oceans</i> , 2018 , 123, 1563-1581	3.3	6
35	The Effects of Remote Internal Tides on Continental Slope Internal Tide Generation. <i>Journal of Physical Oceanography</i> , 2019 , 49, 1651-1668	2.4	6
34	Biophysical characteristics of a morphologically-complex macrotidal tropical coastal system during a dry season. <i>Estuarine, Coastal and Shelf Science</i> , 2014 , 149, 96-108	2.9	6
33	Experimental study on resonantly forced interfacial waves in a stratified circular cylindrical basin. <i>Journal of Fluid Mechanics</i> , 2007 , 582, 203-222	3.7	6
32	Ocean Transport Pathways to a World Heritage Fringing Coral Reef: Ningaloo Reef, Western Australia. <i>PLoS ONE</i> , 2016 , 11, e0145822	3.7	6
31	Directional decomposition of internal tides propagating from multiple generation sites. <i>Ocean Modelling</i> , 2021 , 162, 101801	3	6
30	Cylinder wakes in shallow oscillatory flow: the coastal island wake problem. <i>Journal of Fluid Mechanics</i> , 2019 , 874, 158-184	3.7	5
29	Examining shifts in zooplankton community variability following biological invasion. <i>Limnology and Oceanography</i> , 2013 , 58, 399-408	4.8	5
28	Dying to find the source [The use of rhodamine WT as a proxy for soluble point source pollutants in closed pipe surface drainage networks. <i>Hydrology and Earth System Sciences</i> , 2009 , 13, 2169-2178	5.5	5
27	Field Investigation of Selective Withdrawal. <i>Journal of Hydraulic Engineering</i> , 1978 , 104, 1225-1237		5
26	Acquiring Long-Term Turbulence Measurements from Moored Platforms Impacted by Motion. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016 , 33, 2535-2551	2	5
25	The combined effect of transient wind-driven upwelling and eddies on vertical nutrient fluxes and phytoplankton dynamics along Ningaloo Reef, Western Australia. <i>Journal of Geophysical Research: Oceans</i> , 2016 , 121, 4994-5016	3.3	5
24	Breaking of super-critically incident internal waves at a sloping bed. <i>Coastal and Estuarine Studies</i> , 1998 , 475-484		4
23	Three-dimensionality of shallow island wakes. <i>Environmental Fluid Mechanics</i> , 2019 , 19, 1393-1416	2.2	3
22	Internal Waves 2017 , 1-12		3
21	Estimation of a characteristic friction velocity in stirred benthic chambers. <i>Marine Ecology - Progress Series</i> , 2004 , 279, 291-295	2.6	3
20	The potential role of turbulence in modulating the migration of demersal zooplankton. <i>Limnology and Oceanography</i> , 2021 , 66, 855-864	4.8	3

19	Uncertainty Quantification of Density and Stratification Estimates with Implications for Predicting Ocean Dynamics. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019 , 36, 1313-1330	2	2
18	Determining Near-Bottom Fluxes of Passive Tracers in Aquatic Environments. <i>Geophysical Research Letters</i> , 2018 , 45, 2716-2725	4.9	2
17	Observations of Diurnal Coastal-Trapped Waves with a Thermocline-Intensified Velocity Field. <i>Journal of Physical Oceanography</i> , 2019 , 49, 1973-1994	2.4	2
16	Generation and Propagation of Near-Inertial Waves in a Baroclinic Current on the Tasmanian Shelf. <i>Journal of Physical Oceanography</i> , 2019 , 49, 2653-2667	2.4	2
15	Observations of bottom intensification of temperature and velocity fluctuations induced by oblique tidal interactions with a slope. <i>Marine and Freshwater Research</i> , 2006 , 57, 255	2.2	2
14	Uncovering Fine-Scale Wave-Driven Transport Features in a Fringing Coral Reef System via Lagrangian Coherent Structures. <i>Fluids</i> , 2020 , 5, 190	1.6	1
13	Estimating net transport and mixing using a time-dependent inverse method. <i>Journal of Geophysical Research</i> , 2008 , 113,		1
12	The temporal evolution of a geostrophic flow in a rotating stratified basin. <i>Dynamics of Atmospheres and Oceans</i> , 2005 , 39, 189-210	1.9	1
11	Estimation of the rate of dissipation of turbulent kinetic energy and turbulent lengthscales in grid-generated turbulence. <i>Experiments in Fluids</i> , 2003 , 34, 607-615	2.5	1
10	On continental shelf convection: The influence of an ideal coast. <i>Journal of Geophysical Research</i> , 1998 , 103, 15643-15656		1
9	The effects of a surface stress-driven ambient circulation on open ocean convection. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1999 , 91, 199-222	1.4	1
8	Calibrated Suspended Sediment Observations Beneath Large Amplitude Non-Linear Internal Waves. <i>Journal of Geophysical Research: Oceans</i> , 2021 , 126, e2021JC017538	3.3	1
7	Tides and Internal Waves on the Continental Shelf 2011 , 225-235		1
6	A Seasonal Harmonic Model for Internal Tide Amplitude Prediction. <i>Journal of Geophysical Research: Oceans</i> , 2021 , 126, e2021JC017570	3.3	1
5	Investigating transport in a tidally driven coral atoll flow using Lagrangian coherent structures. <i>Limnology and Oceanography</i> , 2021 , 66, 4017	4.8	0
4	Roles of Shear and Convection in Driving Mixing in the Ocean. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL089455	4.9	0
3	Reconstruction of Wall Shear-Stress Fluctuations in a Shallow Tidal River. <i>ERC OFTAC Series</i> , 2016 , 247-257.		1
2	Two intersecting internal wave rays: A comparison between numerical and laboratory results. <i>Coastal and Estuarine Studies</i> , 1998 , 241-250		

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