

Brian L White

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,174
citations

471509

17
h-index

610901

24
g-index

28
all docs

28
docs citations

28
times ranked

1163
citing authors

#	ARTICLE	IF	CITATIONS
1	Particle radial velocity and concentration kernels estimation in isotropic grid turbulence experiments of inertialess particles at small separation distances. <i>Journal of Fluid Mechanics</i> , 2022, 942, .	3.4	0
2	Physics-informed machine learning: case studies for weather and climate modelling. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200093.	3.4	167
3	Transient energy growth in the ageostrophic Eady model. <i>Journal of Fluid Mechanics</i> , 2020, 885, .	3.4	4
4	Transient energy growth in the ageostrophic Eady model – ERRATUM. <i>Journal of Fluid Mechanics</i> , 2020, 888, .	3.4	0
5	Energetics of a Rotating Wind-forced Horizontal Convection Model of a Reentrant Channel. <i>Journal of Physical Oceanography</i> , 2020, . .	1.7	0
6	Optimal transient growth in thin-interface internal solitary waves. <i>Journal of Fluid Mechanics</i> , 2018, 840, 342-378.	3.4	6
7	Mixing Efficiency in the Presence of Stratification: When Is It Constant?. <i>Geophysical Research Letters</i> , 2018, 45, 5627-5634.	4.0	61
8	Transition and turbulence in horizontal convection: linear stability analysis. <i>Journal of Fluid Mechanics</i> , 2017, 821, 31-58.	3.4	18
9	A model for thin layer formation by delayed particle settling at sharp density gradients. <i>Continental Shelf Research</i> , 2017, 133, 37-46.	1.8	18
10	Ephemeral aggregate layers in the water column leave lasting footprints in the carbon cycle. <i>Limnology and Oceanography Letters</i> , 2017, 2, 202-209.	3.9	5
11	Turbulent horizontal convection at high Schmidt numbers. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	5
12	Optimal mixing of buoyant jets and plumes in stratified fluids: theory and experiments. <i>Journal of Fluid Mechanics</i> , 2016, 790, 71-103.	3.4	23
13	The Mixing Efficiency of Stratified Turbulent Boundary Layers. <i>Journal of Physical Oceanography</i> , 2016, 46, 3181-3191.	1.7	24
14	Delayed settling of marine snow: Effects of density gradient and particle properties and implications for carbon cycling. <i>Marine Chemistry</i> , 2015, 175, 28-38.	2.3	57
15	Available Potential Energy and the General Circulation: Partitioning Wind, Buoyancy Forcing, and Diapycnal Mixing. <i>Journal of Physical Oceanography</i> , 2015, 45, 1510-1531.	1.7	26
16	A model for internal bores in continuous stratification. <i>Journal of Fluid Mechanics</i> , 2014, 761, 282-304.	3.4	12
17	Diagnosing mixing in stratified turbulent flows with a locally defined available potential energy. <i>Journal of Fluid Mechanics</i> , 2014, 740, 114-135.	3.4	42
18	Rapid gravitational adjustment of horizontal shear flows. <i>Journal of Fluid Mechanics</i> , 2013, 721, 86-117.	3.4	25

#	ARTICLE	IF	CITATIONS
19	Delayed settling of marine snow at sharp density transitions driven by fluid entrainment and diffusion-limited retention. <i>Marine Ecology - Progress Series</i> , 2013, 487, 185-200.	1.9	39
20	A general description of a gravity current front propagating in a two-layer stratified fluid. <i>Journal of Fluid Mechanics</i> , 2012, 711, 545-575.	3.4	36
21	Subsurface Trapping of Oil Plumes in Stratification: Laboratory Investigations. <i>Geophysical Monograph Series</i> , 2011, , 257-262.	0.1	6
22	Hyperspectral remote sensing of salinity stress on red (<i>Rhizophora mangle</i>) and white (<i>Laguncularia racemosa</i>) mangroves on Galapagos Islands. <i>Remote Sensing Letters</i> , 2011, 2, 221-230.	1.4	32
23	A model for large-amplitude internal solitary waves with trapped cores. <i>Nonlinear Processes in Geophysics</i> , 2010, 17, 303-318.	1.3	31
24	A vortex-based model of velocity and shear stress in a partially vegetated shallow channel. <i>Water Resources Research</i> , 2008, 44, .	4.2	160
25	Gravity currents and internal waves in a stratified fluid. <i>Journal of Fluid Mechanics</i> , 2008, 616, 327-356.	3.4	57
26	Shear instability and coherent structures in shallow flow adjacent to a porous layer. <i>Journal of Fluid Mechanics</i> , 2007, 593, 1-32.	3.4	210
27	Scalar transport in random cylinder arrays at moderate Reynolds number. <i>Journal of Fluid Mechanics</i> , 2003, 487, 43-79.	3.4	109
28	Poster: Turbulent Horizontal Convection at High Prandtl Numbers. , 0, , .		1