

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 | 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 |
| 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 | 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 |
| 4 | Scalar transport in random cylinder arrays at moderate Reynolds number. <i>Journal of Fluid Mechanics</i> , 2003, 487, 43-79. | 3.4 | 109 |
| 5 | Mixing Efficiency in the Presence of Stratification: When Is It Constant?. <i>Geophysical Research Letters</i> , 2018, 45, 5627-5634. | 4.0 | 61 |
| 6 | Gravity currents and internal waves in a stratified fluid. <i>Journal of Fluid Mechanics</i> , 2008, 616, 327-356. | 3.4 | 57 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | A model for large-amplitude internal solitary waves with trapped cores. <i>Nonlinear Processes in Geophysics</i> , 2010, 17, 303-318. | 1.3 | 31 |
| 13 | 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 |
| 14 | Rapid gravitational adjustment of horizontal shear flows. <i>Journal of Fluid Mechanics</i> , 2013, 721, 86-117. | 3.4 | 25 |
| 15 | The Mixing Efficiency of Stratified Turbulent Boundary Layers. <i>Journal of Physical Oceanography</i> , 2016, 46, 3181-3191. | 1.7 | 24 |
| 16 | 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 |
| 17 | Transition and turbulence in horizontal convection: linear stability analysis. <i>Journal of Fluid Mechanics</i> , 2017, 821, 31-58. | 3.4 | 18 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | A model for internal bores in continuous stratification. <i>Journal of Fluid Mechanics</i> , 2014, 761, 282-304. | 3.4 | 12 |
| 20 | Subsurface Trapping of Oil Plumes in Stratification: Laboratory Investigations. <i>Geophysical Monograph Series</i> , 2011, , 257-262. | 0.1 | 6 |
| 21 | Optimal transient growth in thin-interface internal solitary waves. <i>Journal of Fluid Mechanics</i> , 2018, 840, 342-378. | 3.4 | 6 |
| 22 | 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 |
| 23 | Turbulent horizontal convection at high Schmidt numbers. <i>Physical Review Fluids</i> , 2017, 2, . | 2.5 | 5 |
| 24 | Transient energy growth in the ageostrophic Eady model. <i>Journal of Fluid Mechanics</i> , 2020, 885, . | 3.4 | 4 |
| 25 | Poster: Turbulent Horizontal Convection at High Prandtl Numbers. , 0, , . | | 1 |
| 26 | Transient energy growth in the ageostrophic Eady model – ERRATUM. <i>Journal of Fluid Mechanics</i> , 2020, 888, . | 3.4 | 0 |
| 27 | Energetics of a Rotating Wind-forced Horizontal Convection Model of a Reentrant Channel. <i>Journal of Physical Oceanography</i> , 2020, , . | 1.7 | 0 |
| 28 | 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 |