

# Kraig B Winters

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

1,172  
citations

623734

14  
h-index

642732

23  
g-index

23  
all docs

23  
docs citations

23  
times ranked

861  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Available potential energy and mixing in density-stratified fluids. <i>Journal of Fluid Mechanics</i> , 1995, 289, 115-128.   | 3.4 | 459       |
| 2  | Diascalar flux and the rate of fluid mixing. <i>Journal of Fluid Mechanics</i> , 1996, 317, 179-193.  | 3.4 | 151       |
| 3  | Measurements of diapycnal diffusivities in stratified fluids. <i>Journal of Fluid Mechanics</i> , 2001, 442, 267-291.   | 3.4 | 103       |
| 4  | Stimulated Imbalance and the Enhancement of Eddy Kinetic Energy Dissipation by Internal Waves. <i>Journal of Physical Oceanography</i> , 2017, 47, 181-198.         | 1.7 | 72        |
| 5  | The role of dissipation and mixing in exchange flow through a contracting channel. <i>Journal of Fluid Mechanics</i> , 2000, 407, 265-290.                          | 3.4 | 65        |
| 6  | Available potential energy and buoyancy variance in horizontal convection. <i>Journal of Fluid Mechanics</i> , 2009, 629, 221-230.                                  | 3.4 | 45        |
| 7  | Numerical simulation of turbulent, oscillatory flow over sand ripples. <i>Journal of Geophysical Research</i> , 2004, 109, .  | 3.3 | 42        |
| 8  | Available potential energy density for Boussinesq fluid flow. <i>Journal of Fluid Mechanics</i> , 2013, 714, 476-488.   | 3.4 | 30        |
| 9  | Rotating horizontal convection. <i>Journal of Fluid Mechanics</i> , 2013, 723, 556-586.   | 3.4 | 29        |
| 10 | Modelling rotating stratified flows at laboratory-scale using spectrally-based DNS. <i>Ocean Modelling</i> , 2012, 49-50, 47-59.                                    | 2.4 | 26        |
| 11 | Differential Heating Drives Downslope Flows that Accelerate Mixed-Layer Warming in Ice-Covered Waters. <i>Geophysical Research Letters</i> , 2019, 46, 13872-13882. | 4.0 | 25        |
| 12 | Critical reflection and abyssal trapping of near-inertial waves on a $\hat{f}^2$ -plane. <i>Journal of Fluid Mechanics</i> , 2011, 684, 111-136.                    | 3.4 | 24        |
| 13 | Simulation of non-hydrostatic, density-stratified flow in irregular domains. <i>International Journal for Numerical Methods in Fluids</i> , 2000, 32, 263-284.      | 1.6 | 16        |
| 14 | The turbulent transition of a supercritical downslope flow: sensitivity to downstream conditions. <i>Journal of Fluid Mechanics</i> , 2016, 792, 997-1012.          | 3.4 | 14        |
| 15 | Bathymetry and latitude modify lake warming under ice. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 1813-1825.  | 4.9 | 14        |
| 16 | Energetics of Radiatively Heated Ice-Covered Lakes. <i>Geophysical Research Letters</i> , 2019, 46, 8913-8925.  | 4.0 | 12        |
| 17 | Lagrangian analysis of a convective mixed layer. <i>Journal of Geophysical Research</i> , 2002, 107, 8-1.   | 3.3 | 9         |
| 18 | Stratified Flows over and around Long Dynamically Tall Mountain Ridges. <i>Journals of the Atmospheric Sciences</i> , 2019, 76, 1265-1287.                          | 1.7 | 9         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Stability of stratified downslope flows with an overlying stagnant isolating layer. Journal of Fluid Mechanics, 2017, 810, 392-411.                                | 3.4 | 8         |
| 20 | Intermittent patches of turbulence in a stratified medium with stable shear. Journal of Turbulence, 2012, 13, N20.   | 1.4 | 5         |
| 21 | Observations on the Lateral Structure of Wind-Driven Flows in a Stratified, Semiarid Bay of the Gulf of California. Estuaries and Coasts, 2014, 37, 1319-1328.     | 2.2 | 5         |
| 22 | Poleward propagation of near-inertial waves induced by fluctuating winds over a baroclinically unstable zonal jet. Journal of Fluid Mechanics, 2018, 834, 510-530. | 3.4 | 5         |
| 23 | The effect of a strong density step on blocked stratified flow over topography. Journal of Fluid Mechanics, 2020, 889, .   | 3.4 | 4         |