

William R Young

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

4,313
citations

117453

34
h-index

106150

65
g-index

72
all docs

72
docs citations

72
times ranked

2398
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Moist convection drives an upscale energy transfer at Jovian high latitudes. <i>Nature Physics</i> , 2022, 18, 357-361. | 6.5 | 18 |
| 2 | Polar vortex crystals: Emergence and structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2120486119. | 3.3 | 8 |
| 3 | Stokes drift and its discontents. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, 20210032. | 1.6 | 3 |
| 4 | Wave-averaged balance: a simple example. <i>Journal of Fluid Mechanics</i> , 2021, 911, . | 1.4 | 10 |
| 5 | Interaction of near-inertial waves with an anticyclonic vortex. <i>Journal of Physical Oceanography</i> , 2021, , . | 0.7 | 1 |
| 6 | Inertia-gravity waves and geostrophic turbulence. <i>Journal of Fluid Mechanics</i> , 2021, 920, . | 1.4 | 4 |
| 7 | Improved bounds on horizontal convection. <i>Journal of Fluid Mechanics</i> , 2020, 883, . | 1.4 | 7 |
| 8 | Direct Observations of Near-Inertial Wave Refraction in a Dipole Vortex. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090375. | 1.5 | 12 |
| 9 | Penetration of Wind-Generated Near-Inertial Waves into a Turbulent Ocean. <i>Journal of Physical Oceanography</i> , 2020, 50, 1699-1716. | 0.7 | 37 |
| 10 | The Nusselt numbers of horizontal convection. <i>Journal of Fluid Mechanics</i> , 2020, 894, . | 1.4 | 5 |
| 11 | Directional diffusion of surface gravity wave action by ocean macroturbulence. <i>Journal of Fluid Mechanics</i> , 2020, 890, . | 1.4 | 17 |
| 12 | Refraction and Straining of Near-Inertial Waves by Barotropic Eddies. <i>Journal of Physical Oceanography</i> , 2020, 50, 3439-3454. | 0.7 | 11 |
| 13 | An improved model of near-inertial wave dynamics. <i>Journal of Fluid Mechanics</i> , 2019, 876, 428-448. | 1.4 | 8 |
| 14 | Stimulated generation: extraction of energy from balanced flow by near-inertial waves. <i>Journal of Fluid Mechanics</i> , 2018, 847, 417-451. | 1.4 | 49 |
| 15 | Beta-plane turbulence above monoscale topography. <i>Journal of Fluid Mechanics</i> , 2017, 827, 415-447. | 1.4 | 9 |
| 16 | Radiation of internal waves from groups of surface gravity waves. <i>Journal of Fluid Mechanics</i> , 2017, 829, 280-303. | 1.4 | 18 |
| 17 | An asymptotic model for the propagation of oceanic internal tides through quasi-geostrophic flow. <i>Journal of Fluid Mechanics</i> , 2017, 828, 779-811. | 1.4 | 13 |
| 18 | A three-component model for the coupled evolution of near-inertial waves, quasi-geostrophic flow and the near-inertial second harmonic. <i>Journal of Fluid Mechanics</i> , 2016, 802, 806-837. | 1.4 | 47 |

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|----|---|-----|-----------|
| 19 | Stratified tidal flow over a tall ridge above and below the turning latitude. <i>Journal of Fluid Mechanics</i> , 2016, 793, 933-957. | 1.4 | 18 |
| 20 | On Galerkin Approximations of the Surface Active Quasigeostrophic Equations. <i>Journal of Physical Oceanography</i> , 2016, 46, 125-139. | 0.7 | 9 |
| 21 | Available potential vorticity and wave-averaged quasi-geostrophic flow. <i>Journal of Fluid Mechanics</i> , 2015, 785, 401-424. | 1.4 | 36 |
| 22 | Semicompressible Ocean Dynamics. <i>Journal of Physical Oceanography</i> , 2015, 45, 149-156. | 0.7 | 5 |
| 23 | Generation of surface waves by shear-flow instability. <i>Journal of Fluid Mechanics</i> , 2014, 739, 276-307. | 1.4 | 37 |
| 24 | Reynolds Stress and Eddy Diffusivity of \hat{I}^2 -Plane Shear Flows. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 2169-2185. | 0.6 | 27 |
| 25 | Refraction of swell by surface currents. <i>Journal of Marine Research</i> , 2014, 72, 105-126. | 0.3 | 41 |
| 26 | A two-dimensional vortex condensate at high Reynolds number. <i>Journal of Fluid Mechanics</i> , 2013, 715, 359-388. | 1.4 | 33 |
| 27 | An Exact Thickness-Weighted Average Formulation of the Boussinesq Equations. <i>Journal of Physical Oceanography</i> , 2012, 42, 692-707. | 0.7 | 110 |
| 28 | Stressed horizontal convection. <i>Journal of Fluid Mechanics</i> , 2012, 692, 317-331. | 1.4 | 14 |
| 29 | Zonostrophic Instability. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 1633-1656. | 0.6 | 155 |
| 30 | The advection- ϵ condensation model and water vapour probability density functions. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011, 137, 1561-1572. | 1.0 | 16 |
| 31 | Dynamic Enthalpy, Conservative Temperature, and the Seawater Boussinesq Approximation. <i>Journal of Physical Oceanography</i> , 2010, 40, 394-400. | 0.7 | 68 |
| 32 | On the energy of elliptical vortices. <i>Physics of Fluids</i> , 2010, 22, . | 1.6 | 7 |
| 33 | Available potential energy and buoyancy variance in horizontal convection. <i>Journal of Fluid Mechanics</i> , 2009, 629, 221-230. | 1.4 | 45 |
| 34 | Energy-entropy stability of \hat{I}^2 -plane Kolmogorov flow with drag. <i>Physics of Fluids</i> , 2008, 20, . | 1.6 | 7 |
| 35 | Near-inertial parametric subharmonic instability. <i>Journal of Fluid Mechanics</i> , 2008, 607, 25-49. | 1.4 | 44 |
| 36 | Two-Layer Baroclinic Eddy Heat Fluxes: Zonal Flows and Energy Balance. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 3214-3231. | 0.6 | 88 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Dissipative descent: rocking and rolling down an incline. <i>Journal of Fluid Mechanics</i> , 2007, 590, 295-318. | 1.4 | 6 |
| 38 | A bound on scalar variance for the advection–diffusion equation. <i>Journal of Fluid Mechanics</i> , 2006, 552, 289. | 1.4 | 14 |
| 39 | Tidal Conversion at a Submarine Ridge. <i>Journal of Physical Oceanography</i> , 2006, 36, 1053-1071. | 0.7 | 94 |
| 40 | Control of Large-Scale Heat Transport by Small-Scale Mixing. <i>Journal of Physical Oceanography</i> , 2006, 36, 1877-1894. | 0.7 | 30 |
| 41 | Numerical and Analytical Estimates of M2 Tidal Conversion at Steep Oceanic Ridges. <i>Journal of Physical Oceanography</i> , 2006, 36, 1072-1084. | 0.7 | 56 |
| 42 | Scaling Baroclinic Eddy Fluxes: Vortices and Energy Balance. <i>Journal of Physical Oceanography</i> , 2006, 36, 720-738. | 0.7 | 84 |
| 43 | Bounds on dissipation in stress-driven flow in a rotating frame. <i>Journal of Fluid Mechanics</i> , 2005, 540, 373. | 1.4 | 0 |
| 44 | Bounds on dissipation in stress-driven flow. <i>Journal of Fluid Mechanics</i> , 2004, 510, 333-352. | 1.4 | 14 |
| 45 | Tidal conversion at a very steep ridge. <i>Journal of Fluid Mechanics</i> , 2003, 495, 175-191. | 1.4 | 103 |
| 46 | Diffusion-limited scalar cascades. <i>Journal of Fluid Mechanics</i> , 2003, 482, 91-100. | 1.4 | 14 |
| 47 | Horizontal convection is non-turbulent. <i>Journal of Fluid Mechanics</i> , 2002, 466, 205-214. | 1.4 | 121 |
| 48 | Disturbing vortices. <i>Journal of Fluid Mechanics</i> , 2001, 426, 95-133. | 1.4 | 64 |
| 49 | Reproductive pair correlations and the clustering of organisms. <i>Nature</i> , 2001, 412, 328-331. | 13.7 | 190 |
| 50 | Radiative damping of near-inertial oscillations in the mixed layer. <i>Journal of Marine Research</i> , 1999, 57, 561-584. | 0.3 | 34 |
| 51 | Exciting, unsettling changes in store for physical oceanography. <i>Eos</i> , 1999, 80, 394. | 0.1 | 1 |
| 52 | Dynamics of interfaces and layers in a stratified turbulent fluid. <i>Journal of Fluid Mechanics</i> , 1998, 355, 329-358. | 1.4 | 116 |
| 53 | Enhanced dispersion of near-inertial waves in an idealized geostrophic flow. <i>Journal of Marine Research</i> , 1998, 56, 1-40. | 0.3 | 51 |
| 54 | Dynamics of vorticity defects in shear. <i>Journal of Fluid Mechanics</i> , 1997, 333, 197-230. | 1.4 | 38 |

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|----|--|-----|-----------|
| 55 | Propagation of near-inertial oscillations through a geostrophic flow. <i>Journal of Marine Research</i> , 1997, 55, 735-766. | 0.3 | 164 |
| 56 | Shear dispersion and anomalous diffusion by chaotic advection. <i>Journal of Fluid Mechanics</i> , 1994, 280, 149-172. | 1.4 | 58 |
| 57 | Kinetics of a one-dimensional granular medium in the quasielastic limit. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 34-45. | 1.6 | 143 |
| 58 | Rates, pathways, and end states of nonlinear evolution in decaying two-dimensional turbulence: Scaling theory versus selective decay. <i>Physics of Fluids A, Fluid Dynamics</i> , 1992, 4, 1314-1316. | 1.6 | 63 |
| 59 | Inelastic collapse and clumping in a one-dimensional granular medium. <i>Physics of Fluids A, Fluid Dynamics</i> , 1992, 4, 496-504. | 1.6 | 305 |
| 60 | Multiple equilibria in two-dimensional thermohaline circulation. <i>Journal of Fluid Mechanics</i> , 1992, 241, 291-309. | 1.4 | 61 |
| 61 | Fixed-flux convection in a tilted slot. <i>Journal of Fluid Mechanics</i> , 1992, 237, 57-71. | 1.4 | 10 |
| 62 | Evolution of vortex statistics in two-dimensional turbulence. <i>Physical Review Letters</i> , 1991, 66, 2735-2737. | 2.9 | 248 |
| 63 | Dispersion in an unconsolidated porous medium. <i>Physics of Fluids A, Fluid Dynamics</i> , 1991, 3, 2468-2470. | 1.6 | 4 |
| 64 | Extremal energy properties and construction of stable solutions of the Euler equations. <i>Journal of Fluid Mechanics</i> , 1989, 207, 133-152. | 1.4 | 74 |
| 65 | Blow-up of unsteady two-dimensional Euler and Navier-Stokes solutions having stagnation-point form. <i>Journal of Fluid Mechanics</i> , 1989, 203, 1-22. | 1.4 | 72 |
| 66 | On the interaction of small-scale oceanic internal waves with near-inertial waves. <i>Journal of Fluid Mechanics</i> , 1986, 166, 341. | 1.4 | 58 |
| 67 | Some interactions between small numbers of baroclinic, geostrophic vortices. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1985, 33, 35-61. | 0.4 | 31 |
| 68 | The nonlinear spin-up of a stratified ocean. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1984, 30, 169-197. | 0.4 | 12 |
| 69 | How rapidly is a passive scalar mixed within closed streamlines?. <i>Journal of Fluid Mechanics</i> , 1983, 133, 133-145. | 1.4 | 316 |
| 70 | Shear-Flow Dispersion, Internal Waves and Horizontal Mixing in the Ocean. <i>Journal of Physical Oceanography</i> , 1982, 12, 515-527. | 0.7 | 239 |
| 71 | Homogenization of potential vorticity in planetary gyres. <i>Journal of Fluid Mechanics</i> , 1982, 122, 347. | 1.4 | 384 |