

William R Young

List of Publications by Year in descending order

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71
papers

4,313
citations

117625

34
h-index

106344

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.	16.7	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.	7.1	8
3	Stokes drift and its discontents. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, 20210032.	3.4	3
4	Wave-averaged balance: a simple example. <i>Journal of Fluid Mechanics</i> , 2021, 911, .	3.4	10
5	Interaction of near-inertial waves with an anticyclonic vortex. <i>Journal of Physical Oceanography</i> , 2021, , .	1.7	1
6	Inertia-gravity waves and geostrophic turbulence. <i>Journal of Fluid Mechanics</i> , 2021, 920, .	3.4	4
7	Improved bounds on horizontal convection. <i>Journal of Fluid Mechanics</i> , 2020, 883, .	3.4	7
8	Direct Observations of Near-Inertial Wave Refraction in a Dipole Vortex. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090375.	4.0	12
9	Penetration of Wind-Generated Near-Inertial Waves into a Turbulent Ocean. <i>Journal of Physical Oceanography</i> , 2020, 50, 1699-1716.	1.7	37
10	The Nusselt numbers of horizontal convection. <i>Journal of Fluid Mechanics</i> , 2020, 894, .	3.4	5
11	Directional diffusion of surface gravity wave action by ocean macroturbulence. <i>Journal of Fluid Mechanics</i> , 2020, 890, .	3.4	17
12	Refraction and Straining of Near-Inertial Waves by Barotropic Eddies. <i>Journal of Physical Oceanography</i> , 2020, 50, 3439-3454.	1.7	11
13	An improved model of near-inertial wave dynamics. <i>Journal of Fluid Mechanics</i> , 2019, 876, 428-448.	3.4	8
14	Stimulated generation: extraction of energy from balanced flow by near-inertial waves. <i>Journal of Fluid Mechanics</i> , 2018, 847, 417-451.	3.4	49
15	Beta-plane turbulence above monoscale topography. <i>Journal of Fluid Mechanics</i> , 2017, 827, 415-447.	3.4	9
16	Radiation of internal waves from groups of surface gravity waves. <i>Journal of Fluid Mechanics</i> , 2017, 829, 280-303.	3.4	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.	3.4	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.	3.4	47

#	ARTICLE	IF	CITATIONS
19	Stratified tidal flow over a tall ridge above and below the turning latitude. <i>Journal of Fluid Mechanics</i> , 2016, 793, 933-957.	3.4	18
20	On Galerkin Approximations of the Surface Active Quasigeostrophic Equations. <i>Journal of Physical Oceanography</i> , 2016, 46, 125-139.	1.7	9
21	Available potential vorticity and wave-averaged quasi-geostrophic flow. <i>Journal of Fluid Mechanics</i> , 2015, 785, 401-424.	3.4	36
22	Semicompressible Ocean Dynamics. <i>Journal of Physical Oceanography</i> , 2015, 45, 149-156.	1.7	5
23	Generation of surface waves by shear-flow instability. <i>Journal of Fluid Mechanics</i> , 2014, 739, 276-307.	3.4	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.	1.7	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.	3.4	33
27	An Exact Thickness-Weighted Average Formulation of the Boussinesq Equations. <i>Journal of Physical Oceanography</i> , 2012, 42, 692-707.	1.7	110
28	Stressed horizontal convection. <i>Journal of Fluid Mechanics</i> , 2012, 692, 317-331.	3.4	14
29	Zonostrophic Instability. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 1633-1656.	1.7	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.	2.7	16
31	Dynamic Enthalpy, Conservative Temperature, and the Seawater Boussinesq Approximation. <i>Journal of Physical Oceanography</i> , 2010, 40, 394-400.	1.7	68
32	On the energy of elliptical vortices. <i>Physics of Fluids</i> , 2010, 22, .	4.0	7
33	Available potential energy and buoyancy variance in horizontal convection. <i>Journal of Fluid Mechanics</i> , 2009, 629, 221-230.	3.4	45
34	Energy-entropy stability of \hat{I}^2 -plane Kolmogorov flow with drag. <i>Physics of Fluids</i> , 2008, 20, .	4.0	7
35	Near-inertial parametric subharmonic instability. <i>Journal of Fluid Mechanics</i> , 2008, 607, 25-49.	3.4	44
36	Two-Layer Baroclinic Eddy Heat Fluxes: Zonal Flows and Energy Balance. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 3214-3231.	1.7	88

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37	Dissipative descent: rocking and rolling down an incline. <i>Journal of Fluid Mechanics</i> , 2007, 590, 295-318.	3.4	6
38	A bound on scalar variance for the advection–diffusion equation. <i>Journal of Fluid Mechanics</i> , 2006, 552, 289.	3.4	14
39	Tidal Conversion at a Submarine Ridge. <i>Journal of Physical Oceanography</i> , 2006, 36, 1053-1071.	1.7	94
40	Control of Large-Scale Heat Transport by Small-Scale Mixing. <i>Journal of Physical Oceanography</i> , 2006, 36, 1877-1894.	1.7	30
41	Numerical and Analytical Estimates of M2 Tidal Conversion at Steep Oceanic Ridges. <i>Journal of Physical Oceanography</i> , 2006, 36, 1072-1084.	1.7	56
42	Scaling Baroclinic Eddy Fluxes: Vortices and Energy Balance. <i>Journal of Physical Oceanography</i> , 2006, 36, 720-738.	1.7	84
43	Bounds on dissipation in stress-driven flow in a rotating frame. <i>Journal of Fluid Mechanics</i> , 2005, 540, 373.	3.4	0
44	Bounds on dissipation in stress-driven flow. <i>Journal of Fluid Mechanics</i> , 2004, 510, 333-352.	3.4	14
45	Tidal conversion at a very steep ridge. <i>Journal of Fluid Mechanics</i> , 2003, 495, 175-191.	3.4	103
46	Diffusion-limited scalar cascades. <i>Journal of Fluid Mechanics</i> , 2003, 482, 91-100.	3.4	14
47	Horizontal convection is non-turbulent. <i>Journal of Fluid Mechanics</i> , 2002, 466, 205-214.	3.4	121
48	Disturbing vortices. <i>Journal of Fluid Mechanics</i> , 2001, 426, 95-133.	3.4	64
49	Reproductive pair correlations and the clustering of organisms. <i>Nature</i> , 2001, 412, 328-331.	27.8	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.	3.4	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.	3.4	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.	3.4	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.	3.4	61
61	Fixed-flux convection in a tilted slot. <i>Journal of Fluid Mechanics</i> , 1992, 237, 57-71.	3.4	10
62	Evolution of vortex statistics in two-dimensional turbulence. <i>Physical Review Letters</i> , 1991, 66, 2735-2737.	7.8	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.	3.4	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.	3.4	72
66	On the interaction of small-scale oceanic internal waves with near-inertial waves. <i>Journal of Fluid Mechanics</i> , 1986, 166, 341.	3.4	58
67	Some interactions between small numbers of baroclinic, geostrophic vortices. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1985, 33, 35-61.	1.2	31
68	The nonlinear spin-up of a stratified ocean. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1984, 30, 169-197.	1.2	12
69	How rapidly is a passive scalar mixed within closed streamlines?. <i>Journal of Fluid Mechanics</i> , 1983, 133, 133-145.	3.4	316
70	Shear-Flow Dispersion, Internal Waves and Horizontal Mixing in the Ocean. <i>Journal of Physical Oceanography</i> , 1982, 12, 515-527.	1.7	239
71	Homogenization of potential vorticity in planetary gyres. <i>Journal of Fluid Mechanics</i> , 1982, 122, 347.	3.4	384