

William R Young

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3277648/william-r-young-publications-by-year.pdf>

Version: 2024-04-17

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71
papers

3,504
citations

31
h-index

59
g-index

72
ext. papers

3,874
ext. citations

4.2
avg, IF

5.53
L-index

#	Paper	IF	Citations
71	Polar vortex crystals: Emergence and structure.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2120486119	11.5	0
70	Stokes drift and its discontents.. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022 , 380, 20210032	3	0
69	Inertia-gravity waves and geostrophic turbulence. <i>Journal of Fluid Mechanics</i> , 2021 , 920,	3.7	1
68	Wave-averaged balance: a simple example. <i>Journal of Fluid Mechanics</i> , 2021 , 911,	3.7	4
67	Direct Observations of Near-Inertial Wave Refraction in a Dipole Vortex. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL090375	4.9	4
66	Penetration of Wind-Generated Near-Inertial Waves into a Turbulent Ocean. <i>Journal of Physical Oceanography</i> , 2020 , 50, 1699-1716	2.4	14
65	The Nusselt numbers of horizontal convection. <i>Journal of Fluid Mechanics</i> , 2020 , 894,	3.7	1
64	Directional diffusion of surface gravity wave action by ocean macroturbulence. <i>Journal of Fluid Mechanics</i> , 2020 , 890,	3.7	5
63	Refraction and Straining of Near-Inertial Waves by Barotropic Eddies. <i>Journal of Physical Oceanography</i> , 2020 , 50, 3439-3454	2.4	3
62	Improved bounds on horizontal convection. <i>Journal of Fluid Mechanics</i> , 2020 , 883,	3.7	3
61	An improved model of near-inertial wave dynamics. <i>Journal of Fluid Mechanics</i> , 2019 , 876, 428-448	3.7	6
60	Stimulated generation: extraction of energy from balanced flow by near-inertial waves. <i>Journal of Fluid Mechanics</i> , 2018 , 847, 417-451	3.7	32
59	Beta-plane turbulence above monoscale topography. <i>Journal of Fluid Mechanics</i> , 2017 , 827, 415-447	3.7	4
58	Radiation of internal waves from groups of surface gravity waves. <i>Journal of Fluid Mechanics</i> , 2017 , 829, 280-303	3.7	14
57	An asymptotic model for the propagation of oceanic internal tides through quasi-geostrophic flow. <i>Journal of Fluid Mechanics</i> , 2017 , 828, 779-811	3.7	11
56	On Galerkin Approximations of the Surface Active Quasigeostrophic Equations. <i>Journal of Physical Oceanography</i> , 2016 , 46, 125-139	2.4	8
55	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	3.7	36

54	Stratified tidal flow over a tall ridge above and below the turning latitude. <i>Journal of Fluid Mechanics</i> , 2016 , 793, 933-957	3.7	13
53	Semicompressible Ocean Dynamics. <i>Journal of Physical Oceanography</i> , 2015 , 45, 149-156	2.4	4
52	Available potential vorticity and wave-averaged quasi-geostrophic flow. <i>Journal of Fluid Mechanics</i> , 2015 , 785, 401-424	3.7	24
51	Generation of surface waves by shear-flow instability. <i>Journal of Fluid Mechanics</i> , 2014 , 739, 276-307	3.7	27
50	Reynolds Stress and Eddy Diffusivity of \mathbb{E} Plane Shear Flows. <i>Journals of the Atmospheric Sciences</i> , 2014 , 71, 2169-2185	2.1	21
49	Refraction of swell by surface currents. <i>Journal of Marine Research</i> , 2014 , 72, 105-126	1.5	30
48	A two-dimensional vortex condensate at high Reynolds number. <i>Journal of Fluid Mechanics</i> , 2013 , 715, 359-388	3.7	27
47	Stressed horizontal convection. <i>Journal of Fluid Mechanics</i> , 2012 , 692, 317-331	3.7	10
46	Zonostrophic Instability. <i>Journals of the Atmospheric Sciences</i> , 2012 , 69, 1633-1656	2.1	130
45	An Exact Thickness-Weighted Average Formulation of the Boussinesq Equations. <i>Journal of Physical Oceanography</i> , 2012 , 42, 692-707	2.4	79
44	The advection-condensation model and water-vapour probability density functions. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011 , 137, 1561-1572	6.4	14
43	On the energy of elliptical vortices. <i>Physics of Fluids</i> , 2010 , 22, 081701	4.4	7
42	Dynamic Enthalpy, Conservative Temperature, and the Seawater Boussinesq Approximation. <i>Journal of Physical Oceanography</i> , 2010 , 40, 394-400	2.4	47
41	Available potential energy and buoyancy variance in horizontal convection. <i>Journal of Fluid Mechanics</i> , 2009 , 629, 221-230	3.7	39
40	Energy-entropy stability of \mathbb{E} plane Kolmogorov flow with drag. <i>Physics of Fluids</i> , 2008 , 20, 084102	4.4	7
39	Near-inertial parametric subharmonic instability. <i>Journal of Fluid Mechanics</i> , 2008 , 607, 25-49	3.7	37
38	Dissipative descent: rocking and rolling down an incline. <i>Journal of Fluid Mechanics</i> , 2007 , 590, 295-318	3.7	6
37	Two-Layer Baroclinic Eddy Heat Fluxes: Zonal Flows and Energy Balance. <i>Journals of the Atmospheric Sciences</i> , 2007 , 64, 3214-3231	2.1	73

36	A bound on scalar variance for the advection-diffusion equation. <i>Journal of Fluid Mechanics</i> , 2006 , 552, 289	3.7	13
35	Tidal Conversion at a Submarine Ridge. <i>Journal of Physical Oceanography</i> , 2006 , 36, 1053-1071	2.4	80
34	Control of Large-Scale Heat Transport by Small-Scale Mixing. <i>Journal of Physical Oceanography</i> , 2006 , 36, 1877-1894	2.4	27
33	Numerical and Analytical Estimates of M2 Tidal Conversion at Steep Oceanic Ridges. <i>Journal of Physical Oceanography</i> , 2006 , 36, 1072-1084	2.4	48
32	Scaling Baroclinic Eddy Fluxes: Vortices and Energy Balance. <i>Journal of Physical Oceanography</i> , 2006 , 36, 720-738	2.4	67
31	Bounds on dissipation in stress-driven flow in a rotating frame. <i>Journal of Fluid Mechanics</i> , 2005 , 540, 373	3.7	
30	Bounds on dissipation in stress-driven flow. <i>Journal of Fluid Mechanics</i> , 2004 , 510, 333-352	3.7	13
29	Tidal conversion at a very steep ridge. <i>Journal of Fluid Mechanics</i> , 2003 , 495, 175-191	3.7	90
28	Diffusion-limited scalar cascades. <i>Journal of Fluid Mechanics</i> , 2003 , 482, 91-100	3.7	13
27	Horizontal convection is non-turbulent. <i>Journal of Fluid Mechanics</i> , 2002 , 466, 205-214	3.7	103
26	Reproductive pair correlations and the clustering of organisms. <i>Nature</i> , 2001 , 412, 328-31	50.4	164
25	Disturbing vortices. <i>Journal of Fluid Mechanics</i> , 2001 , 426, 95-133	3.7	60
24	Radiative damping of near-inertial oscillations in the mixed layer. <i>Journal of Marine Research</i> , 1999 , 57, 561-584	1.5	27
23	Exciting, unsettling changes in store for physical oceanography. <i>Eos</i> , 1999 , 80, 394	1.5	1
22	Dynamics of interfaces and layers in a stratified turbulent fluid. <i>Journal of Fluid Mechanics</i> , 1998 , 355, 329-358	3.7	93
21	Enhanced dispersion of near-inertial waves in an idealized geostrophic flow. <i>Journal of Marine Research</i> , 1998 , 56, 1-40	1.5	43
20	Dynamics of vorticity defects in shear. <i>Journal of Fluid Mechanics</i> , 1997 , 333, 197-230	3.7	32
19	Propagation of near-inertial oscillations through a geostrophic flow. <i>Journal of Marine Research</i> , 1997 , 55, 735-766	1.5	139

18	Shear dispersion and anomalous diffusion by chaotic advection. <i>Journal of Fluid Mechanics</i> , 1994 , 280, 149-172	3.7	51
17	Kinetics of a one-dimensional granular medium in the quasielastic limit. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993 , 5, 34-45		131
16	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		53
15	Inelastic collapse and clumping in a one-dimensional granular medium. <i>Physics of Fluids A, Fluid Dynamics</i> , 1992 , 4, 496-504		234
14	Multiple equilibria in two-dimensional thermohaline circulation. <i>Journal of Fluid Mechanics</i> , 1992 , 241, 291-309	3.7	55
13	Fixed-flux convection in a tilted slot. <i>Journal of Fluid Mechanics</i> , 1992 , 237, 57-71	3.7	7
12	Dispersion in an unconsolidated porous medium. <i>Physics of Fluids A, Fluid Dynamics</i> , 1991 , 3, 2468-2470		3
11	Evolution of vortex statistics in two-dimensional turbulence. <i>Physical Review Letters</i> , 1991 , 66, 2735-2737	4	218
10	Extremal energy properties and construction of stable solutions of the Euler equations. <i>Journal of Fluid Mechanics</i> , 1989 , 207, 133-152	3.7	66
9	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	3.7	64
8	On the interaction of small-scale oceanic internal waves with near-inertial waves. <i>Journal of Fluid Mechanics</i> , 1986 , 166, 341	3.7	46
7	Some interactions between small numbers of baroclinic, geostrophic vortices. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1985 , 33, 35-61	1.4	26
6	The nonlinear spin-up of a stratified ocean. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1984 , 30, 169-197	1.4	12
5	How rapidly is a passive scalar mixed within closed streamlines?. <i>Journal of Fluid Mechanics</i> , 1983 , 133, 133-145	3.7	273
4	Shear-Flow Dispersion, Internal Waves and Horizontal Mixing in the Ocean. <i>Journal of Physical Oceanography</i> , 1982 , 12, 515-527	2.4	193
3	Homogenization of potential vorticity in planetary gyres. <i>Journal of Fluid Mechanics</i> , 1982 , 122, 347	3.7	312
2	Moist convection drives an upscale energy transfer at Jovian high latitudes. <i>Nature Physics</i> ,	16.2	3
1	Polygonal patterns of cyclones on Jupiter: Convective forcing and anticyclonic shielding		2

