

Boris Galperin

List of Publications by Year in descending order

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34
papers

1,873
citations

394421

19
h-index

395702

33
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35
all docs

35
docs citations

35
times ranked

1814
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of a New Spectral Theory of Stably Stratified Turbulence to the Atmospheric Boundary Layer over Sea Ice™. <i>Boundary-Layer Meteorology</i> , 2005, 117, 231-257.	2.3	254
2	Mean Dynamic Topography of the Ocean Derived from Satellite and Drifting Buoy Data Using Three Different Techniques*. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009, 26, 1910-1919.	1.3	233
3	On the critical Richardson number in stably stratified turbulence. <i>Atmospheric Science Letters</i> , 2007, 8, 65-69.	1.9	204
4	On the Arrest of Inverse Energy Cascade and the Rhines Scale. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 3312-3327.	1.7	123
5	Review of wave-turbulence interactions in the stable atmospheric boundary layer. <i>Reviews of Geophysics</i> , 2015, 53, 956-993.	23.0	112
6	The ubiquitous zonal jets in the atmospheres of giant planets and Earth's oceans. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	109
7	Anisotropic spectra in two-dimensional turbulence on the surface of a rotating sphere. <i>Physics of Fluids</i> , 2001, 13, 225-240.	4.0	97
8	The effect of small-scale forcing on large-scale structures in two-dimensional flows. <i>Physica D: Nonlinear Phenomena</i> , 1996, 98, 321-334.	2.8	86
9	A quasinormal scale elimination model of turbulent flows with stable stratification. <i>Physics of Fluids</i> , 2005, 17, 085107.	4.0	78
10	A time-dependent, three-dimensional model of the Delaware Bay and River system. Part 1: Description of the model and tidal analysis. <i>Estuarine, Coastal and Shelf Science</i> , 1990, 31, 231-253.	2.1	72
11	Geophysical flows with anisotropic turbulence and dispersive waves: flows with a $\hat{\nu}^2$ -effect. <i>Ocean Dynamics</i> , 2010, 60, 427-441.	2.2	69
12	Universal Spectrum of Two-Dimensional Turbulence on a Rotating Sphere and Some Basic Features of Atmospheric Circulation on Giant Planets. <i>Physical Review Letters</i> , 2002, 89, 124501.	7.8	67
13	Cassini observations reveal a regime of zonostrophic macroturbulence on Jupiter. <i>Icarus</i> , 2014, 229, 295-320.	2.5	50
14	A time-dependent, three-dimensional model of the Delaware Bay and River system. Part 2: Three-dimensional flow fields and residual circulation. <i>Estuarine, Coastal and Shelf Science</i> , 1990, 31, 255-281.	2.1	44
15	Geophysical flows with anisotropic turbulence and dispersive waves: flows with stable stratification. <i>Ocean Dynamics</i> , 2010, 60, 1319-1337.	2.2	28
16	Cross-term and $\hat{\nu}$ -expansion in RNG theory of turbulence. <i>Fluid Dynamics Research</i> , 2003, 33, 319-331.	1.3	27
17	Validation of the diurnal cycles in atmospheric reanalyses over Antarctic sea ice. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 4194-4204.	3.3	27
18	An analytical theory of the buoyancy-Kolmogorov subrange transition in turbulent flows with stable stratification. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120212.	3.4	27

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19	Nonlinear Waves in Zonostrophic Turbulence. Physical Review Letters, 2008, 101, 178501.	7.8	23
20	Methodical assessment of the differences between the QNSE and MYJ PBL schemes for stable conditions. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2077-2089.	2.7	19
21	QNSE theory of turbulence anisotropization and onset of the inverse energy cascade by solid body rotation. Journal of Fluid Mechanics, 2016, 805, 384-421.	3.4	19
22	Large eddy simulation of two-dimensional isotropic turbulence. Journal of Scientific Computing, 1996, 11, 13-45.	2.3	18
23	Anisotropic turbulence and Rossby waves in an easterly jet: An experimental study. Geophysical Research Letters, 2014, 41, 6237-6243.	4.0	14
24	The importance of surface layer parameterization in modeling of stable atmospheric boundary layers. Atmospheric Science Letters, 2015, 16, 83-88.	1.9	14
25	Anisotropic macroturbulence and diffusion associated with a westward zonal jet: From laboratory to planetary atmospheres and oceans. Physical Review E, 2016, 94, 063102.	2.1	9
26	A modified turbulent energy model for diffusion from elevated and ground point sources in neutral boundary layers. Boundary-Layer Meteorology, 1986, 37, 245-262.	2.3	7
27	Rosby waves and zonons in zonostrophic turbulence. AIP Conference Proceedings, 2012, , .	0.4	7
28	Seasonal oceanic variability on meso- and submesoscales: a turbulence perspective. Ocean Dynamics, 2021, 71, 475-489.	2.2	7
29	The impact of the QNSE-EDMF scheme and its modifications on boundary layer parameterization in WRF: modelling of CASES-97. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 1182-1195.	2.7	6
30	Zonal Jet Formation by Potential Vorticity Mixing at Large and Small Scales. , 2019, , 238-246.		6
31	Quasinormal scale elimination theory of the anisotropic energy spectra of atmospheric and oceanic turbulence. Physical Review Fluids, 2020, 5, .	2.5	6
32	Eddy-wave duality in a rotating flow. Physics of Fluids, 2020, 32, 076604.	4.0	4
33	Revealing the Intensity of Turbulent Energy Transfer in Planetary Atmospheres. Geophysical Research Letters, 2020, 47, e2020GL088685.	4.0	4
34	Eddy Rossby wave frequency in \hat{z} -plane turbulence. Physics of Fluids A, Fluid Dynamics, 1993, 5, 2083-2085.	1.6	3