Erik Lindborg

List of Publications by Year
in descending order

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20	1,316	687363 13	752698 20
papers	citations	h-index	g-index

20	20	20	893
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The energy cascade in a strongly stratified fluid. Journal of Fluid Mechanics, 2006, 550, 207.	3.4	394
2	Can the atmospheric kinetic energy spectrum be explained by two-dimensional turbulence?. Journal of Fluid Mechanics, 1999, 388, 259-288.	3.4	349
3	Horizontal Wavenumber Spectra of Vertical Vorticity and Horizontal Divergence in the Upper Troposphere and Lower Stratosphere. Journals of the Atmospheric Sciences, 2007, 64, 1017-1025.	1.7	74
4	Correction to the four-fifths law due to variations of the dissipation. Physics of Fluids, 1999, 11, 510-512.	4.0	73
5	The effect of rotation on the mesoscale energy cascade in the free atmosphere. Geophysical Research Letters, 2005, 32, .	4.0	63
6	The kinetic energy spectrum of the two-dimensional enstrophy turbulence cascade. Physics of Fluids, 2000, 12, 945-947.	4.0	61
7	A New Formulation of the Spectral Energy Budget of the Atmosphere, with Application to Two High-Resolution General Circulation Models. Journals of the Atmospheric Sciences, 2013, 70, 2293-2308.	1.7	58
8	A Helmholtz decomposition of structure functions and spectra calculated from aircraftÂdata. Journal of Fluid Mechanics, 2015, 762, .	3.4	52
9	A note on Kolmogorov's third-order structure-function law, the local isotropy hypothesis and the pressureâ€“velocity correlation. Journal of Fluid Mechanics, 1996, 326, 343-356.	3.4	47
10	Helicity in the Ekman boundary layer. Journal of Fluid Mechanics, 2014, 755, 654-671.	3.4	30
11	Third-order structure function relations for quasi-geostrophic turbulence. Journal of Fluid Mechanics, 2007, 572, 255-260.	3.4	25
12	Testing Batchelorâ€™s similarity hypotheses for decaying two-dimensional turbulence. Physics of Fluids, 2010, 22, .	4.0	19
13	Weakly or Strongly Nonlinear Mesoscale Dynamics Close to the Tropopause?. Journals of the Atmospheric Sciences, 2018, 75, 1215-1229.	1.7	18
14	A two-dimensional toy model for geophysical turbulence. Physics of Fluids, 2017, 29, .	4.0	11
15	Comparative terrestrial atmospheric circulation regimes in simplified global circulation models. Part II: Energy budgets and spectral transfers. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 2558-2576.	2.7	11
16	Shallow water wave turbulence. Journal of Fluid Mechanics, 2019, 874, 1169-1196.	3.4	11
17	A note on acoustic turbulence. Journal of Fluid Mechanics, 2019, 874, .	3.4	8
18	Modelling of rapid pressure-strain in Reynolds stress closures ? Difficulties associated with rotational mean flows. Flow, Turbulence and Combustion, 1994, 53, 119-137.	0.2	5

#	Article	IF	Citations
19	Two-dimensional turbulence on a sphere. Journal of Fluid Mechanics, 2022, 933, .	3.4	5
20	A condition on the average Richardson number for weak non-linearity of internal gravity waves. Tellus, Series A: Dynamic Meteorology and Oceanography, 2007, 59, 781-784.	1.7	2