Jeffrey B Weiss

List of Publications by Year
in descending order

32 papers	1,347 citations	430874 18 h-index	434195 31 g-index
32 all docs	32 docs citations	32 times ranked	752 citing authors

#	Article	IF	Citations
1	Evolution of vortex statistics in two-dimensional turbulence. Physical Review Letters, 1991, 66, 2735-2737.	7.8	248
2	Temporal scaling behavior of decaying twoâ€dimensional turbulence. Physics of Fluids A, Fluid Dynamics, 1993, 5, 608-621.	1.6	137
3	Anisotropy and Coherent Vortex Structures in Planetary Turbulence. Science, 1994, 264, 410-413.	12.6	109
4	Upscale Energy Transfer in Three-Dimensional Rapidly Rotating Turbulent Convection. Physical Review Letters, 2014, 112, 144501.	7.8	96
5	Mass transport and mixing by modulated traveling waves. Physical Review A, 1989, 40, 2579-2589.	2.5	83
6	Model of Convective Taylor Columns in Rotating Rayleigh-BÃ©nard Convection. Physical Review Letters, 2010, 104, 224501.	7.8	68
7	Rates, pathways, and end states of nonlinear evolution in decaying twoâ€dimensional turbulence: Scaling theory versus selective decay. Physics of Fluids A, Fluid Dynamics, 1992, 4, 1314-1316.	1.6	63
8	Vortex merging in quasi-geostrophic flows. Journal of Fluid Mechanics, 2000, 412, 331-353.	3.4	63
9	The vortices of homogeneous geostrophic turbulence. Journal of Fluid Mechanics, 1999, 401, 1-26.	3.4	56
10	Co-occurrence of Northern and Southern Hemisphere Blocks as Partially Synchronized Chaos. Journals of the Atmospheric Sciences, 1999, 56, 4183-4205.	1.7	52
11	Nonergodicity of point vortices. Physics of Fluids A, Fluid Dynamics, 1991, 3, 835-844.	1.6	50
12	Synchronicity in predictive modelling: a new view of data assimilation. Nonlinear Processes in Geophysics, 2006, 13, 601-612.	1.3	47
13	Chaotic advection by modulated traveling waves. Physical Review A, 1987, 36, 1522-1524.	2.5	41
14	Eddies and vortices in ocean basin dynamics. Geophysical Research Letters, 2001, 28, 3183-3186.	4.0	35
15	Transport and mixing in traveling waves. Physics of Fluids A, Fluid Dynamics, 1991, 3, 1379-1384.	1.6	34
16	Quantifying Persistence in ENSO. Journals of the Atmospheric Sciences, 1999, 56, 2737-2760.	1.7	22
17	Fluctuation properties of steady-state Langevin systems. Physical Review E, 2007, 76, 061128.	2.1	22
18	A stochastic return map for stochastic differential equations. Journal of Statistical Physics, 1990, 58, 863-883.	1.2	19

#	Article	IF	Citations
19	Vortex Statistics from Eulerian and Lagrangian Time Series. Physical Review Letters, 2002, 89, 284501.	7.8	16
20	Coordinate invariance in stochastic dynamical systems. Tellus, Series A: Dynamic Meteorology and Oceanography, 2003, 55, 208-218.	1.7	15
21	Nonequilibrium Oscillations, Probability Angular Momentum, and the Climate System. Journal of Statistical Physics, 2020, 179, 1010-1027.	1.2	13
22	Hamiltonian maps and transport in structured fluids. Physica D: Nonlinear Phenomena, 1994, 76, 230-238.	2.8	12
23	An Ensemble Covariance Framework for Quantifying Forced Climate Variability and Its Time of Emergence. Journal of Climate, 2018, 31, 4117-4133.	3.2	11
24	Assimilation of ocean sea-surface height observations of mesoscale eddies. Chaos, 2017, 27, 126803.	2.5	8
25	Volume Visualizing High-Resolution Turbulence Computations. Theoretical and Computational Fluid Dynamics, 1998, 11, 195-211.	2.2	7
26	Moments of the probability distribution for noisy maps. Physical Review A, 1987, 35, 879-885.	2.5	4
27	Investigations of non-hydrostatic, stably stratified and rapidly rotating flows. Journal of Fluid Mechanics, 2016, 801, 430-458.	3.4	4
28	Point-vortex dynamics in three-dimensional ageostrophic balanced flows. Journal of Fluid Mechanics, 2022, 936, .	3.4	4
29	Nonequilibrium statistical mechanics of tropical sea surface temperature variability. Geophysical Research Letters, 2009, 36, .	4.0	3
30	Jet Alignment in a Two-Layer Quasigeostrophic Channel Using One-Dimensional Grid Warping. Journals of the Atmospheric Sciences, 2010, 67, 2296-2306.	1.7	3
31	Observational evidence of the downstream impact on tropical rainfall from stratospheric Kelvin waves. Climate Dynamics, 2018, 50, 3775-3782.	3.8	2
32	Volume Transport by a 3D Quasigeostrophic Heton. Fluids, 2022, 7, 92.	1.7	0