

Jeffrey B Weiss

List of Publications by Year in descending order

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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	Point-vortex dynamics in three-dimensional ageostrophic balanced flows. <i>Journal of Fluid Mechanics</i> , 2022, 936, .	3.4	4
2	Volume Transport by a 3D Quasigeostrophic Heton. <i>Fluids</i> , 2022, 7, 92.	1.7	0
3	Nonequilibrium Oscillations, Probability Angular Momentum, and the Climate System. <i>Journal of Statistical Physics</i> , 2020, 179, 1010-1027.	1.2	13
4	An Ensemble Covariance Framework for Quantifying Forced Climate Variability and Its Time of Emergence. <i>Journal of Climate</i> , 2018, 31, 4117-4133.	3.2	11
5	Observational evidence of the downstream impact on tropical rainfall from stratospheric Kelvin waves. <i>Climate Dynamics</i> , 2018, 50, 3775-3782.	3.8	2
6	Assimilation of ocean sea-surface height observations of mesoscale eddies. <i>Chaos</i> , 2017, 27, 126803.	2.5	8
7	Investigations of non-hydrostatic, stably stratified and rapidly rotating flows. <i>Journal of Fluid Mechanics</i> , 2016, 801, 430-458.	3.4	4
8	Upscale Energy Transfer in Three-Dimensional Rapidly Rotating Turbulent Convection. <i>Physical Review Letters</i> , 2014, 112, 144501.	7.8	96
9	Model of Convective Taylor Columns in Rotating Rayleigh-BÃ©nard Convection. <i>Physical Review Letters</i> , 2010, 104, 224501.	7.8	68
10	Jet Alignment in a Two-Layer Quasigeostrophic Channel Using One-Dimensional Grid Warping. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 2296-2306.	1.7	3
11	Nonequilibrium statistical mechanics of tropical sea surface temperature variability. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	3
12	Fluctuation properties of steady-state Langevin systems. <i>Physical Review E</i> , 2007, 76, 061128.	2.1	22
13	Synchronicity in predictive modelling: a new view of data assimilation. <i>Nonlinear Processes in Geophysics</i> , 2006, 13, 601-612.	1.3	47
14	Coordinate invariance in stochastic dynamical systems. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2003, 55, 208-218.	1.7	15
15	Vortex Statistics from Eulerian and Lagrangian Time Series. <i>Physical Review Letters</i> , 2002, 89, 284501.	7.8	16
16	Eddies and vortices in ocean basin dynamics. <i>Geophysical Research Letters</i> , 2001, 28, 3183-3186.	4.0	35
17	Vortex merging in quasi-geostrophic flows. <i>Journal of Fluid Mechanics</i> , 2000, 412, 331-353.	3.4	63
18	The vortices of homogeneous geostrophic turbulence. <i>Journal of Fluid Mechanics</i> , 1999, 401, 1-26.	3.4	56

#	ARTICLE	IF	CITATIONS
19	Quantifying Persistence in ENSO. <i>Journals of the Atmospheric Sciences</i> , 1999, 56, 2737-2760.	1.7	22
20	Co-occurrence of Northern and Southern Hemisphere Blocks as Partially Synchronized Chaos. <i>Journals of the Atmospheric Sciences</i> , 1999, 56, 4183-4205.	1.7	52
21	Volume Visualizing High-Resolution Turbulence Computations. <i>Theoretical and Computational Fluid Dynamics</i> , 1998, 11, 195-211.	2.2	7
22	Hamiltonian maps and transport in structured fluids. <i>Physica D: Nonlinear Phenomena</i> , 1994, 76, 230-238.	2.8	12
23	Anisotropy and Coherent Vortex Structures in Planetary Turbulence. <i>Science</i> , 1994, 264, 410-413.	12.6	109
24	Temporal scaling behavior of decaying two-dimensional turbulence. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 608-621.	1.6	137
25	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
26	Evolution of vortex statistics in two-dimensional turbulence. <i>Physical Review Letters</i> , 1991, 66, 2735-2737.	7.8	248
27	Transport and mixing in traveling waves. <i>Physics of Fluids A, Fluid Dynamics</i> , 1991, 3, 1379-1384.	1.6	34
28	Nonergodicity of point vortices. <i>Physics of Fluids A, Fluid Dynamics</i> , 1991, 3, 835-844.	1.6	50
29	A stochastic return map for stochastic differential equations. <i>Journal of Statistical Physics</i> , 1990, 58, 863-883.	1.2	19
30	Mass transport and mixing by modulated traveling waves. <i>Physical Review A</i> , 1989, 40, 2579-2589.	2.5	83
31	Moments of the probability distribution for noisy maps. <i>Physical Review A</i> , 1987, 35, 879-885.	2.5	4
32	Chaotic advection by modulated traveling waves. <i>Physical Review A</i> , 1987, 36, 1522-1524.	2.5	41