Jared P Whitehead

List of Publications by Year
in descending order

		932766	839053
27 papers	347 citations	10 h-index	18 g-index
28 all docs	28 docs citations	28 times ranked	290 citing authors

#	Article	IF	Citations
1	Ultimate State of Two-Dimensional Rayleigh-Bénard Convection between Free-Slip Fixed-Temperature Boundaries. Physical Review Letters, 2011, 106, 244501.	2.9	75
2	Error propagation dynamics of PIV-based pressure field calculations: How well does the pressure Poisson solver perform inherently?. Measurement Science and Technology, 2016, 27, 084012.	1.4	33
3	Rigid bounds on heat transport by a fluid between slippery boundaries. Journal of Fluid Mechanics, 2012, 707, 241-259.	1.4	29
4	A Stability Analysis of Divergence Damping on a Latitude–Longitude Grid. Monthly Weather Review, 2011, 139, 2976-2993.	0.5	24
5	Internal heating driven convection at infinite Prandtl number. Journal of Mathematical Physics, 2011, 52, .	0.5	22
6	Data Assimilation in Large Prandtl Rayleigh--Bénard Convection from Thermal Measurements. SIAM Journal on Applied Dynamical Systems, 2020, 19, 510-540.	0.7	22
7	Determining the effective resolution of advection schemes. Part I: Dispersion analysis. Journal of Computational Physics, 2014, 278, 485-496.	1.9	16
8	A rigorous bound on the vertical transport of heat in Rayleigh-Bénard convection at infinite Prandtl number with mixed thermal boundary conditions. Journal of Mathematical Physics, 2014, 55, .	0.5	15
9	Bounds on heat transport in rapidly rotating Rayleigh–Bénard convection. Nonlinearity, 2015, 28, 29-41.	0.6	12
10	Potential vorticity: Measuring consistency between <scp>GCM</scp> dynamical cores and tracer advection schemes. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 739-751.	1.0	11
11	Downscale cascades in tracer transport test cases: an intercomparison of the dynamical cores in the Community Atmosphere Model CAM5. Geoscientific Model Development, 2012, 5, 1517-1530.	1.3	9
12	Assessing Tracer Transport Algorithms and the Impact of Vertical Resolution in a Finite-Volume Dynamical Core. Monthly Weather Review, 2012, 140, 1620-1638.	0.5	8
13	A bound on the vertical transport of heat in the 'ultimate' state of slippery convection at large Prandtl numbers. Journal of Fluid Mechanics, 2013, 729, 103-122.	1.4	8
14	The influence of fast waves and fluctuations on the evolution of the dynamics on the slow manifold. Journal of Fluid Mechanics, 2014, 757, 155-178.	1.4	8
15	Ergodicity in randomly forced Rayleigh–Bénard convection. Nonlinearity, 2016, 29, 3309-3345.	0.6	8
16	Algebraic bounds on the Rayleigh–Bénard attractor. Nonlinearity, 2021, 34, 509-531.	0.6	8
17	Dynamically learning the parameters of a chaotic system using partial observations. Discrete and Continuous Dynamical Systems, 2022, 42, 3809.	0.5	8
18	Determining the effective resolution of advection schemes. Part II: Numerical testing. Journal of Computational Physics, 2014, 278, 497-508.	1.9	6

#	Article	IF	Citations
19	Error propagation dynamics of velocimetry-based pressure field calculations (2): on the error profile. Measurement Science and Technology, 2021, 32, 084005.	1.4	6
20	Exact relations between Rayleigh–Bénard and rotating plane Couette flow in two dimensions. Journal of Fluid Mechanics, 2020, 903, .	1.4	5
21	The effect of two distinct fast time scales in the rotating, stratified Boussinesq equations: variations from quasi-geostrophy. Theoretical and Computational Fluid Dynamics, 2018, 32, 713-732.	0.9	3
22	Boundary Layer Analysis for Navier-Slip Rayleigh–Bénard Convection: The Non-existence of an Ultimate State. Journal of Mathematical Fluid Mechanics, 2019, 21, 1.	0.4	3
23	An experimental investigation of interfacial instability in separated blood. AICHE Journal, 2019, 65, 1376-1386.	1.8	3
24	Rigorous bounds on the heat transport of rotating convection with Ekman pumping. Journal of Mathematical Physics, 2020, 61, 023101.	0.5	2
25	Methodological Reconstruction of Historical Seismic Events From Anecdotal Accounts of Destructive Tsunamis: A Case Study for the Great 1852 Banda Arc Mega‐Thrust Earthquake and Tsunami. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021107.	1.4	2
26	ASYMPTOTIC VALUES, PREPOLES, AND PERIODIC POINTS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 1049-1059.	0.7	0
27	Stability of vortex solutions to an extended Navier–Stokes system. Communications in Mathematical Sciences, 2016, 14, 1773-1797.	0.5	0