

Thomas Allen

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

941
citations

1163117

8
h-index

580821

25
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28
all docs

28
docs citations

28
times ranked

1388
citing authors

#	ARTICLE	IF	CITATIONS
1	The Met Office Unified Model Global Atmosphere 6.0/6.1 and JULES Global Land 6.0/6.1 configurations. Geoscientific Model Development, 2017, 10, 1487-1520.	3.6	401
2	An inherently mass-conserving semi-implicit semi-Lagrangian discretization of the deep-atmosphere global non-hydrostatic equations. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 1505-1520.	2.7	333
3	Large-Eddy Simulation Of Turbulent Separated Flow Over Rough Hills. Boundary-Layer Meteorology, 2002, 102, 177-198.	2.3	48
4	A three-dimensional monotone and conservative semi-Lagrangian scheme (SLICE3D) for transport problems. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 1640-1651.	2.7	32
5	A moist Boussinesq shallow water equations set for testing atmospheric models. Journal of Computational Physics, 2015, 290, 55-72.	3.8	14
6	On the monotonic and conservative transport on overset/Yin-Yang grids. Journal of Computational Physics, 2015, 302, 285-299.	3.8	12
7	Transition of free disturbances in inflectional flow over an isolated surface roughness. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 1999, 455, 491-541.	2.1	11
8	Flow Over Hills with Variable Roughness. Boundary-Layer Meteorology, 2006, 121, 475-490.	2.3	10
9	Sub-gridscale parametrization from the perspective of a computer games animator. Atmospheric Science Letters, 2007, 8, 85-92.	1.9	9
10	A deep non-hydrostatic compressible atmospheric model on a Yin-Yang grid. Journal of Computational Physics, 2016, 319, 44-60.	3.8	9
11	On vortex/wave interactions. Part 2. Originating from axisymmetric flow with swirl. Journal of Fluid Mechanics, 1996, 325, 145-161.	3.4	8
12	Modelling of Turbulent Form Drag in Convective Conditions. Boundary-Layer Meteorology, 2006, 118, 421-429.	2.3	7
13	The three-dimensional boundary layer on a yawed body of revolution. Journal of Engineering Mathematics, 1994, 28, 345-364.	1.2	6
14	Comparison of iterative pressure solvers for turbulent flow over hills. Atmospheric Science Letters, 2007, 8, 21-28.	1.9	5
15	Stochastic parametrization of multiscale processes using a dual-grid approach. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 2623-2639.	3.4	5
16	On the Solution of Elliptic Problems on Overset/Yin-Yang Grids. Monthly Weather Review, 2012, 140, 2756-2767.	1.4	5
17	A semi-Lagrangian semi-implicit immersed boundary method for atmospheric flow over complex terrain. Journal of Computational Physics, 2019, 397, 108857.	3.8	5
18	Nonlinear evolution of Rayleigh waves in an initial value context: non-symmetric input and cross-flow. Mathematika, 1998, 45, 217-243.	0.5	4

#	ARTICLE	IF	CITATIONS
19	A consistent treatment of the boundary layer for atmospheric models. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 2156-2164.	2.7	4
20	Nonlinear interactions of steady and oscillatory rolls in two dimensional langmuir circulations. Geophysical and Astrophysical Fluid Dynamics, 1993, 71, 43-71.	1.2	3
21	An Initial-Value Problem for Fully Three-Dimensional Inflectional Boundary Layer flows. Theoretical and Computational Fluid Dynamics, 1998, 12, 131-148.	2.2	3
22	Hopf-Hopf and Hopf-Steady mode interactions with $O(2)$ symmetry in Langmuir circulations. Geophysical and Astrophysical Fluid Dynamics, 1997, 85, 243-278.	1.2	2
23	SLIC: A Semi-Lagrangian Implicitly Corrected method for solving the compressible Euler equations. Journal of Computational Physics, 2020, 421, 109739.	3.8	2
24	On the corners of the cubed sphere grid. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 778-783.	2.7	2
25	The evolution of free disturbances on an initially two-dimensional inflectional boundary-layer flow. Quarterly Journal of Mechanics and Applied Mathematics, 2004, 57, 115-136.	1.3	1
26	The evolution of free-disturbances in a two-dimensional nonlinear critical layer. European Journal of Mechanics, B/Fluids, 2004, 23, 797-813.	2.5	0
27	A simple immersed boundary forcing for flows over steep and complex orography. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 3488-3502.	2.7	0
28	Forced advection problems for testing transport schemes. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 996-1008.	2.7	0