

Christian KÃ¼hnlein

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

444
citations

759233

12
h-index

996975

15
g-index

23
all docs

23
docs citations

23
times ranked

511
citing authors

#	ARTICLE	IF	CITATIONS
1	Semi-implicit integration of the unified equations in a mass-based coordinate: model formulation and numerical testing. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 3387-3408.	2.7	4
2	FVM 1.0: a nonhydrostatic finite-volume dynamical core for the IFS. Geoscientific Model Development, 2019, 12, 651-676.	3.6	47
3	DCMIP2016: the splitting supercell test case. Geoscientific Model Development, 2019, 12, 879-892.	3.6	11
4	The ESCAPE project: Energy-efficient Scalable Algorithms for Weather Prediction at Exascale. Geoscientific Model Development, 2019, 12, 4425-4441.	3.6	19
5	Semi-implicit integrations of perturbation equations for all-scale atmospheric dynamics. Journal of Computational Physics, 2019, 376, 145-159.	3.8	17
6	MPDATA: Third-order accuracy for variable flows. Journal of Computational Physics, 2018, 359, 361-379.	3.8	11
7	An unstructured-mesh finite-volume MPDATA for compressible atmospheric dynamics. Journal of Computational Physics, 2017, 334, 16-30.	3.8	25
8	A finite-volume module for cloud-resolving simulations of global atmospheric flows. Journal of Computational Physics, 2017, 341, 208-229.	3.8	18
9	Atlas : A library for numerical weather prediction and climate modelling. Computer Physics Communications, 2017, 220, 188-204.	7.5	29
10	DCMIP2016: a review of non-hydrostatic dynamical core design and intercomparison of participating models. Geoscientific Model Development, 2017, 10, 4477-4509.	3.6	58
11	A finite-volume module for simulating global all-scale atmospheric flows. Journal of Computational Physics, 2016, 314, 287-304.	3.8	34
12	A consistent framework for discrete integrations of soundproof and compressible PDEs of atmospheric dynamics. Journal of Computational Physics, 2014, 263, 185-205.	3.8	81
13	Dimension of aircraft exhaust plumes at cruise conditions: effect of wake vortices. Atmospheric Chemistry and Physics, 2014, 14, 2713-2733.	4.9	19
14	High-Resolution Doppler Lidar Observations of Transient Downslope Flows and Rotors. Monthly Weather Review, 2013, 141, 3257-3272.	1.4	17
15	Modelling atmospheric flows with adaptive moving meshes. Journal of Computational Physics, 2012, 231, 2741-2763.	3.8	52