

Matthias L  uter

List of Publications by Year in descending order

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Version: 2024-02-01

12
papers

360
citations

1163117

8
h-index

1281871

11
g-index

15
all docs

15
docs citations

15
times ranked

436
citing authors

#	ARTICLE	IF	CITATIONS
1	amatos: Parallel adaptive mesh generator for atmospheric and oceanic simulation. <i>Ocean Modelling</i> , 2005, 10, 171-183.	2.4	64
2	Semi-Implicit Formulations of the Navier–Stokes Equations: Application to Nonhydrostatic Atmospheric Modeling. <i>SIAM Journal of Scientific Computing</i> , 2010, 32, 3394-3425.	2.8	55
3	A discontinuous Galerkin method for the shallow water equations in spherical triangular coordinates. <i>Journal of Computational Physics</i> , 2008, 227, 10226-10242.	3.8	46
4	Unsteady analytical solutions of the spherical shallow water equations. <i>Journal of Computational Physics</i> , 2005, 210, 535-553.	3.8	44
5	The gas production of 14 species from comet 67P/Churyumov–Gerasimenko based on DFMS/COPS data from 2014 to 2016. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 3995-4004.	4.4	39
6	Seasonal changes of the volatile density in the coma and on the surface of comet 67P/Churyumov–Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S20-S28.	4.4	33
7	Surface localization of gas sources on comet 67P/Churyumov-Gerasimenko based on DFMS/COPS data. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	33
8	A parallel adaptive barotropic model of the atmosphere. <i>Journal of Computational Physics</i> , 2007, 223, 609-628.	3.8	23
9	Outgassing-induced acceleration of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2019, 630, A4.	5.1	15
10	The Ice Composition Close to the Surface of Comet 67P/Churyumov-Gerasimenko. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 1189-1203.	2.7	4
11	An adaptive Lagrange-Galerkin method for the shallow-water equations on the sphere. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2003, 3, 48-51.	0.2	3
12	Baroclinic waves on the $\hat{\mathbb{R}}^2$ plane using low-order Discontinuous Galerkin discretisation. <i>Journal of Computational Physics</i> , 2017, 339, 461-481.	3.8	1