

Daniel F Martin

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,386
citations

516710

16
h-index

794594

19
g-index

36
all docs

36
docs citations

36
times ranked

1305
citing authors

#	ARTICLE	IF	CITATIONS
1	Projected land ice contributions to twenty-first-century sea level rise. <i>Nature</i> , 2021, 593, 74-82.	27.8	200
2	Modelling binary alloy solidification with adaptive mesh refinement. <i>Journal of Computational Physics: X</i> , 2020, 5, 100043.	0.7	7
3	Antarctic ice sheet response to sudden and sustained ice-shelf collapse (ABUMIP). <i>Journal of Glaciology</i> , 2020, 66, 891-904.	2.2	70
4	Rapid Viscoelastic Deformation Slows Marine Ice Sheet Instability at Pine Island Glacier. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086446.	4.0	13
5	Projecting Antarctica's contribution to future sea level rise from basal ice shelf melt using linear response functions of 16 ice sheet models (LARMIP-2). <i>Earth System Dynamics</i> , 2020, 11, 35-76.	7.1	92
6	Composite matrix construction for structured grid adaptive mesh refinement. <i>Computer Physics Communications</i> , 2019, 244, 35-39.	7.5	2
7	Millennial-scale Vulnerability of the Antarctic Ice Sheet to Regional Ice Shelf Collapse. <i>Geophysical Research Letters</i> , 2019, 46, 1467-1475.	4.0	26
8	Rate of Mass Loss Across the Instability Threshold for Thwaites Glacier Determines Rate of Mass Loss for Entire Basin. <i>Geophysical Research Letters</i> , 2018, 45, 809-816.	4.0	17
9	Adaptive mesh refinement versus subgrid friction interpolation in simulations of Antarctic ice dynamics. <i>Annals of Glaciology</i> , 2016, 57, 1-9.	1.4	39
10	Experimental design for three interrelated marine ice sheet and ocean model intercomparison projects: MISMIP v. 3 (MISMIP +), ISOMIP v. 2 (ISOMIP +) and MISOMIP v. 1 (MISOMIP1). <i>Geoscientific Model Development</i> , 2016, 9, 2471-2497.	3.6	106
11	In Situ Storage Layout Optimization for AMR Spatio-temporal Read Accesses. , 2016, , .		2
12	Exploring memory hierarchy and network topology for runtime AMR data sharing across scientific applications. , 2016, , .		2
13	Century-scale simulations of the response of the West Antarctic Ice Sheet to a warming climate. <i>Cryosphere</i> , 2015, 9, 1579-1600.	3.9	125
14	Parallel In Situ Detection of Connected Components in Adaptive Mesh Refinement Data. , 2015, , .		5
15	Adaptive mesh, finite volume modeling of marine ice sheets. <i>Journal of Computational Physics</i> , 2013, 232, 529-549.	3.8	199
16	Grounding-line migration in plan-view marine ice-sheet models: results of the ice2sea MISMIP3d intercomparison. <i>Journal of Glaciology</i> , 2013, 59, 410-422.	2.2	179
17	A STABLE, ACCURATE METHODOLOGY FOR HIGH MACH NUMBER, STRONG MAGNETIC FIELD MHD TURBULENCE WITH ADAPTIVE MESH REFINEMENT: RESOLUTION AND REFINEMENT STUDIES. <i>Astrophysical Journal</i> , 2012, 745, 139.	4.5	51
18	CONSTRAINED-TRANSPORT MAGNETOHYDRODYNAMICS WITH ADAPTIVE MESH REFINEMENT IN CHARM. <i>Astrophysical Journal, Supplement Series</i> , 2011, 195, 5.	7.7	29

#	ARTICLE	IF	CITATIONS
19	Numerical Implementation of Streaming Down the Gradient: Application to Fluid Modeling of Cosmic Rays and Saturated Conduction. <i>SIAM Journal of Scientific Computing</i> , 2010, 32, 3564-3583.	2.8	34
20	A cell-centered adaptive projection method for the incompressible Navier–Stokes equations in three dimensions. <i>Journal of Computational Physics</i> , 2008, 227, 1863-1886.	3.8	65
21	An adaptive mesh semi-implicit conservative unsplit method for resistive MHD. <i>Journal of Physics: Conference Series</i> , 2005, 16, 40-48.	0.4	22
22	A Cell-Centered Adaptive Projection Method for the Incompressible Euler Equations. <i>Journal of Computational Physics</i> , 2000, 163, 271-312.	3.8	91
23	Simulating ice-shelf extent using damage mechanics. <i>Journal of Glaciology</i> , 0, , 1-12.	2.2	0