Daniel F Martin

List of Publications by Year
in descending order

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23	1,386	516710 16	794594 19
papers	citations	h-index	g-index

36	36	36	1305
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Projected land ice contributions to twenty-first-century sea level rise. Nature, 2021, 593, 74-82.	27.8	200
2	Adaptive mesh, finite volume modeling of marine ice sheets. Journal of Computational Physics, 2013, 232, 529-549.	3.8	199
3	Grounding-line migration in plan-view marine ice-sheet models: results of the ice2sea MISMIP3d intercomparison. Journal of Glaciology, 2013, 59, 410-422.	2.2	179
4	Century-scale simulations of the response of the West Antarctic Ice Sheet to a warming climate. Cryosphere, 2015, 9, 1579-1600.	3.9	125
5	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). Geoscientific Model Development, 2016, 9, 2471-2497.	3.6	106
6	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). Earth System Dynamics, 2020, 11, 35-76.	7.1	92
7	A Cell-Centered Adaptive Projection Method for the Incompressible Euler Equations. Journal of Computational Physics, 2000, 163, 271-312.	3.8	91
8	Antarctic ice sheet response to sudden and sustained ice-shelf collapse (ABUMIP). Journal of Glaciology, 2020, 66, 891-904.	2.2	70
9	A cell-centered adaptive projection method for the incompressible Navierâ€“Stokes equations in three dimensions. Journal of Computational Physics, 2008, 227, 1863-1886.	3.8	65
10	A STABLE, ACCURATE METHODOLOGY FOR HIGH MACH NUMBER, STRONG MAGNETIC FIELD MHD TURBULENCE WITH ADAPTIVE MESH REFINEMENT: RESOLUTION AND REFINEMENT STUDIES. Astrophysical Journal, 2012, 745, 139.	4.5	51
11	Adaptive mesh refinement versus subgrid friction interpolation in simulations of Antarctic ice dynamics. Annals of Glaciology, 2016, 57, 1-9.	1.4	39
12	Numerical Implementation of Streaming Down the Gradient: Application to Fluid Modeling of Cosmic Rays and Saturated Conduction. SIAM Journal of Scientific Computing, 2010, 32, 3564-3583.	2.8	34
13	CONSTRAINED-TRANSPORT MAGNETOHYDRODYNAMICS WITH ADAPTIVE MESH REFINEMENT IN CHARM. Astrophysical Journal, Supplement Series, 2011, 195, 5.	7.7	29
14	Millennialâ€Scale Vulnerability of the Antarctic Ice Sheet to Regional Ice Shelf Collapse. Geophysical Research Letters, 2019, 46, 1467-1475.	4.0	26
15	An adaptive mesh semi-implicit conservative unsplit method for resistive MHD. Journal of Physics: Conference Series, 2005, 16, 40-48.	0.4	22
16	Rate of Mass Loss Across the Instability Threshold for Thwaites Glacier Determines Rate of Mass Loss for Entire Basin. Geophysical Research Letters, 2018, 45, 809-816.	4.0	17
17	Rapid Viscoelastic Deformation Slows Marine Ice Sheet Instability at Pine Island Glacier. Geophysical Research Letters, 2020, 47, e2019GL086446.	4.0	13
18	Modelling binary alloy solidification with adaptive mesh refinement. Journal of Computational Physics: X, 2020, 5, 100043.	0.7	7

#	Article	IF	Citations
19	Parallel In Situ Detection of Connected Components in Adaptive Mesh Refinement Data. , 2015, , .		5
20	In Situ Storage Layout Optimization for AMR Spatio-temporal Read Accesses. , 2016, , .		2
21	Exploring memory hierarchy and network topology for runtime AMR data sharing across scientific applications. , 2016, , .		2
22	Composite matrix construction for structured grid adaptive mesh refinement. Computer Physics Communications, 2019, 244, 35-39.	7.5	2
23	Simulating ice-shelf extent using damage mechanics. Journal of Glaciology, 0, , 1-12.	2.2	0