JÃ©rÃ´me Breil

List of Publications by Year
in descending order

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36	1,511	430874	345221
papers	citations	18 h-index	36 g-index

36	36	36	875
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Cell-Centered Lagrangian Scheme for Two-Dimensional Compressible Flow Problems. SIAM Journal of Scientific Computing, 2007, 29, 1781-1824.	2.8	334
2	ReALE: A reconnection-based arbitrary-Lagrangianâ€“Eulerian method. Journal of Computational Physics, 2010, 229, 4724-4761.	3.8	168
3	A two-dimensional unstructured cell-centered multi-material ALE scheme using VOF interface reconstruction. Journal of Computational Physics, 2010, 229, 5755-5787.	3.8	166
4	A cell-centered diffusion scheme on two-dimensional unstructured meshes. Journal of Computational Physics, 2007, 224, 785-823.	3.8	98
5	A nominally second-order cell-centered Lagrangian scheme for simulating elasticâ€“plastic flows on two-dimensional unstructured grids. Journal of Computational Physics, 2013, 235, 626-665.	3.8	80
6	Multi-material ALE computation in inertial confinement fusion code CHIC. Computers and Fluids, 2011, 46, 161-167.	2.5	77
7	Two-step hybrid conservative remapping for multimaterial arbitrary Lagrangianâ€“Eulerian methods. Journal of Computational Physics, 2011, 230, 6664-6687.	3.8	67
8	A secondâ€order cellâ€centered Lagrangian scheme for twoâ€dimensional compressible flow problems. International Journal for Numerical Methods in Fluids, 2008, 56, 1417-1423.	1.6	64
9	Shock ignition: modelling and target design robustness. Plasma Physics and Controlled Fusion, 2009, 51, 124030.	2.1	44
10	A multi-material ReALE method with MOF interface reconstruction. Computers and Fluids, 2013, 83, 115-125.	2.5	44
11	A cellâ€centred arbitrary Lagrangianâ€“Eulerian (ALE) method. International Journal for Numerical Methods in Fluids, 2008, 56, 1161-1166.	1.6	43
12	Hybrid remap for multi-material ALE. Computers and Fluids, 2011, 46, 293-297.	2.5	39
13	A 2D unstructured multi-material Cell-Centered Arbitrary Lagrangianâ€“Eulerian (CCALE) scheme using MOF interface reconstruction. Computers and Fluids, 2011, 46, 237-244.	2.5	35
14	Self-consistent modeling of jet formation process in the nanosecond laser pulse regime. Physics of Plasmas, 2009, 16, 123112.	1.9	32
15	A 3D GCL compatible cell-centered Lagrangian scheme for solving gas dynamics equations. Journal of Computational Physics, 2016, 305, 921-941.	3.8	26
16	Analytic criteria for shock ignition of fusion reactions in a central hot spot. Physics of Plasmas, 2011, 18, 102702.	1.9	21
17	The scalability of the accretion column in magnetic cataclysmic variables: the POLAR project. Astrophysics and Space Science, 2011, 336, 81-85.	1.4	19
18	Progress in indirect and direct-drive planar experiments on hydrodynamic instabilities at the ablation front. Physics of Plasmas, 2014, 21, 122702.	1.9	18

#	Article	IF	Citations
19	Dynamics and structure of self-generated magnetics fields on solids following high contrast, high intensity laser irradiation. Physics of Plasmas, 2015, 22, .	1.9	18
20	Moment-of-fluid analytic reconstruction on 2D Cartesian grids. Journal of Computational Physics, 2017, 328, 131-139.	3.8	18
21	Thermo-elasto-plastic simulations of femtosecond laser-induced structural modifications: Application to cavity formation in fused silica. Journal of Applied Physics, 2017, 122, .	2.5	15
22	A Multi-Material CCALE-MOF Approach in Cylindrical Geometry. Communications in Computational Physics, 2014, 15, 330-364.	1.7	14
23	Hydrodynamic instabilities in axisymmetric geometry self-similar models and numerical simulations. Laser and Particle Beams, 2005, 23, 155-160.	1.0	12
24	Collimated Propagation of Fast Electron Beams Accelerated by High-Contrast Laser Pulses in Highly Resistive Shocked Carbon. Physical Review Letters, 2017, 118, 205001.	7.8	11
25	A nominally second-order accurate finite volume cell-centered scheme for anisotropic diffusion on two-dimensional unstructured grids. Journal of Computational Physics, 2012, 231, 2259-2299.	3.8	10
26	Overview of on-going LIL experiments. Plasma Physics and Controlled Fusion, 2008, 50, 124017.	2.1	8
27	A 3D finite volume scheme for solving the updated Lagrangian form of hyperelasticity. International Journal for Numerical Methods in Fluids, 2017, 84, 41-54.	1.6	8
28	A sweptâ€intersectionâ€based remapping method in a ReALE framework. International Journal for Numerical Methods in Fluids, 2013, 72, 697-708.	1.6	5
29	3D cell-centered Lagrangian second order scheme for the numerical modeling of hyperelasticity system. Computers and Fluids, 2020, 207, 104523.	2.5	5
30	Flux corrected remapping using piecewise parabolic reconstruction for 2D cellâ€centered ALE methods. International Journal for Numerical Methods in Fluids, 2014, 76, 575-586.	1.6	3
31	Approach to the study of fast electron transport in cylindrically imploded targets. Laser and Particle Beams, 2015, 33, 525-534.	1.0	3
32	A 3D cell-centered Lagrangian scheme applied to the simulation of 3D non-stationary Rayleighâ€“Taylor Instability in supernova remnants. High Energy Density Physics, 2015, 17, 151-156.	1.5	2
33	A swept intersectionâ€based remapping method for axisymmetric ReALE computation. International Journal for Numerical Methods in Fluids, 2015, 77, 694-706.	1.6	1
34	A finite volume scheme for solving anisotropic diffusion on ALEâ€AMR grids. International Journal for Numerical Methods in Fluids, 2017, 84, 737-756.	1.6	1
35	Mesh regularization for an ALE code based on the limitation of the Lagrangian mesh velocity. International Journal for Numerical Methods in Fluids, 2017, 85, 599-615.	1.6	1
36	Second-order extension in space and time for a 3D cell-centered Lagrangian scheme. Computers and Mathematics With Applications, 2019, 78, 381-401.	2.7	1