Jacques Massoni

List of Publications by Year
in descending order

19 papers	**740** citations	759233 **12** h-index	888059 **17** g-index
19 all docs	**19** docs citations	**19** times ranked	**369** citing authors

#	Article	IF	Citations
1	Ã‰laboration des lois d'Ã©tat d'un liquide et de sa vapeur pour les modÃ¨les d'Ã©coulements diphasiques. International Journal of Thermal Sciences, 2004, 43, 265-276.	4.9	127
2	Modelling evaporation fronts with reactive Riemann solvers. Journal of Computational Physics, 2005, 205, 567-610.	3.8	121
3	Diffuse interface model for high speed cavitating underwater systems. International Journal of Multiphase Flow, 2009, 35, 747-759.	3.4	92
4	Shock jump relations for multiphase mixtures with stiff mechanical relaxation. Shock Waves, 2007, 16, 209-232.	1.9	91
5	A mechanistic model for shock initiation of solid explosives. Physics of Fluids, 1999, 11, 710-736.	4.0	85
6	Proposition de mÃ©thodes et modÃ¨les eulÃ©riens pour les problÃ¨mes Ã interfaces entre fluides compressibles en prÃ©sence de transfert de chaleur. International Journal of Heat and Mass Transfer, 2002, 45, 1287-1307.	4.8	70
7	Attenuation of a shock wave passing through a cloud of water droplets. Shock Waves, 2010, 20, 285-296.	1.9	33
8	Dynamic relaxation processes in compressible multiphase flows. Application to evaporation phenomena. ESAIM: Proceedings and Surveys, 2013, 40, 103-123.	0.4	25
9	Modeling spherical explosions with aluminized energetic materials. Shock Waves, 2006, 16, 75-92.	1.9	19
10	Shock waves in sprays: numerical study of secondary atomization and experimental comparison. Shock Waves, 2016, 26, 403-415.	1.9	19
11	Modeling hyperelasticity in non-equilibrium multiphase flows. Journal of Computational Physics, 2017, 330, 65-91.	3.8	15
12	Impact simulation by an Eulerian model for interaction of multiple elastic-plastic solids and fluids. International Journal of Impact Engineering, 2017, 109, 104-111.	5.0	13
13	On Riemann-problem-based methods for detonations in solid energetic materials. International Journal for Numerical Methods in Fluids, 1998, 26, 101-121.	1.6	10
14	Toward a Thermal Disequilibrium Multiphase Model for High Explosives Containing Metallic Particles. Journal of Energetic Materials, 2010, 28, 154-179.	2.0	8
15	A numerical method for one-dimensional compressible multiphase flows on moving meshes. International Journal for Numerical Methods in Fluids, 2007, 54, 1425-1450.	1.6	7
16	Experimental and Numerical Investigation of Blast Wave Interaction With a Three Level Building. Journal of Fluids Engineering, Transactions of the ASME, 2017, 139, .	1.5	3
17	A multiphase irreversible-compaction model for granular-porous materials. Continuum Mechanics and Thermodynamics, 2022, 34, 217-241.	2.2	2
18	Numerical simulations of shock wave propagation in condensed multiphase materials. Shock Waves, 2007, 17, 241-253.	1.9	0

#	Article	IF	Citations
19	Multi-Model Formulation for Compressible Multiphysics and Multiphase Flows: An Efficient Coupling Algorithm. , 2009, , .		0