Andrea Mentrelli

List of Publications by Year
in descending order

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19 papers	327 citations	933447 10 h-index	839539 18 g-index
19 all docs	19 docs citations	19 times ranked	145 citing authors

#	Article	IF	Citations
1	Shock structure in the 14 moment system of extended thermodynamics with high order closure based on the maximum entropy principle. Ricerche Di Matematica, 2021, 70, 299-313.	1.0	3
2	Shock structure in extended thermodynamics with second-order maximum entropy principle closure. Continuum Mechanics and Thermodynamics, 2021, 33, 125-150.	2.2	6
3	New approach to the thermodynamics of scalar-tensor gravity. Physical Review D, 2021, 104, .	4.7	15
4	Modelling of the convective plasma dynamics in the Sun: anelastic and Boussinesq MHD systems. Ricerche Di Matematica, 2019, 68, 421-433.	1.0	1
5	Orbits in a stochastic Schwarzschild geometry. Physical Review D, 2019, 100, .	4.7	4
6	Asymptotic-Preserving scheme for a strongly anisotropic vorticity equation arising in fusion plasma modeling. Computer Physics Communications, 2018, 229, 116-128.	7.5	2
7	Shock structure and multiple sub-shocks in binary mixtures of Eulerian fluids. Ricerche Di Matematica, 2017, 66, 221-231.	1.0	23
8	Modelling and simulation of wildland fire in the framework of the level set method. Ricerche Di Matematica, 2016, 65, 523-533.	1.0	2
9	Turbulence and fire-spotting effects into wild-land fire simulators. Communications in Nonlinear Science and Numerical Simulation, 2016, 39, 300-320.	3.3	18
10	Front propagation in anomalous diffusive media governed by time-fractional diffusion. Journal of Computational Physics, 2015, 293, 427-441.	3.8	14
11	The Propagation of Shock Waves in Incompressible Fluids: The Case of Freshwater. Acta Applicandae Mathematicae, 2014, 132, 427-437.	1.0	1
12	Molecular extended thermodynamics of rarefied polyatomic gases and wave velocities for increasing number of moments. Annals of Physics, 2014, 345, 111-140.	2.8	66
13	The Riemann problem for a hyperbolic model of incompressible fluids. International Journal of Non-Linear Mechanics, 2013, 51, 87-96.	2.6	9
14	Shock Wave Admissibility and Shock-induced Phase Transitions in a van der Waals Fluid. Series in Contemporary Applied Mathematics, 2012, , 559-567.	0.8	1
15	Asymptotic-preserving scheme for highly anisotropic non-linear diffusion equations. Journal of Computational Physics, 2012, 231, 8229-8245.	3.8	14
16	Admissible shock waves and shock-induced phase transitions in a van der Waals fluid. Physics of Fluids, 2011, 23, .	4.0	77
17	Shock-induced phase transition in systems of hard spheres with internal degrees of freedom. Physical Review E, 2010, 81, 066307.	2.1	14
18	Prediction and simulation of compressive shocks with lower perturbed density for increasing shock strength in real gases. Physical Review E, 2010, 82, 036324.	2.1	14

#	Article	IF	Citations
19	Interaction between a shock and an acceleration wave in a perfect gas for increasing shock strength. Wave Motion, 2008, 45, 498-517.	2.0	43