

Andrea Mentrelli

List of Publications by Year in descending order

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Version: 2024-02-01

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	Admissible shock waves and shock-induced phase transitions in a van der Waals fluid. <i>Physics of Fluids</i> , 2011, 23, .	4.0	77
2	Molecular extended thermodynamics of rarefied polyatomic gases and wave velocities for increasing number of moments. <i>Annals of Physics</i> , 2014, 345, 111-140.	2.8	66
3	Interaction between a shock and an acceleration wave in a perfect gas for increasing shock strength. <i>Wave Motion</i> , 2008, 45, 498-517.	2.0	43
4	Shock structure and multiple sub-shocks in binary mixtures of Eulerian fluids. <i>Ricerche Di Matematica</i> , 2017, 66, 221-231.	1.0	23
5	Turbulence and fire-spotting effects into wild-land fire simulators. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 39, 300-320.	3.3	18
6	New approach to the thermodynamics of scalar-tensor gravity. <i>Physical Review D</i> , 2021, 104, .	4.7	15
7	Shock-induced phase transition in systems of hard spheres with internal degrees of freedom. <i>Physical Review E</i> , 2010, 81, 066307.	2.1	14
8	Prediction and simulation of compressive shocks with lower perturbed density for increasing shock strength in real gases. <i>Physical Review E</i> , 2010, 82, 036324.	2.1	14
9	Asymptotic-preserving scheme for highly anisotropic non-linear diffusion equations. <i>Journal of Computational Physics</i> , 2012, 231, 8229-8245.	3.8	14
10	Front propagation in anomalous diffusive media governed by time-fractional diffusion. <i>Journal of Computational Physics</i> , 2015, 293, 427-441.	3.8	14
11	The Riemann problem for a hyperbolic model of incompressible fluids. <i>International Journal of Non-Linear Mechanics</i> , 2013, 51, 87-96.	2.6	9
12	Shock structure in extended thermodynamics with second-order maximum entropy principle closure. <i>Continuum Mechanics and Thermodynamics</i> , 2021, 33, 125-150.	2.2	6
13	Orbits in a stochastic Schwarzschild geometry. <i>Physical Review D</i> , 2019, 100, .	4.7	4
14	Shock structure in the 14 moment system of extended thermodynamics with high order closure based on the maximum entropy principle. <i>Ricerche Di Matematica</i> , 2021, 70, 299-313.	1.0	3
15	Modelling and simulation of wildland fire in the framework of the level set method. <i>Ricerche Di Matematica</i> , 2016, 65, 523-533.	1.0	2
16	Asymptotic-Preserving scheme for a strongly anisotropic vorticity equation arising in fusion plasma modeling. <i>Computer Physics Communications</i> , 2018, 229, 116-128.	7.5	2
17	Shock Wave Admissibility and Shock-induced Phase Transitions in a van der Waals Fluid. <i>Series in Contemporary Applied Mathematics</i> , 2012, , 559-567.	0.8	1
18	The Propagation of Shock Waves in Incompressible Fluids: The Case of Freshwater. <i>Acta Applicandae Mathematicae</i> , 2014, 132, 427-437.	1.0	1

#	ARTICLE	IF	CITATIONS
19	Modelling of the convective plasma dynamics in the Sun: anelastic and Boussinesq MHD systems. <i>Ricerche Di Matematica</i> , 2019, 68, 421-433.	1.0	1