Srboljub SimiÄ‡

List of Publications by Year
in descending order

24 papers	483 citations	933264 10 h-index	752573 20 g-index
24 all docs	24 docs citations	24 times ranked	152 citing authors

#	ARTICLE	IF	CITATIONS
1	Variational problems with fractional derivatives: Invariance conditions and NÃ¶therâ€™s theorem. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, 1504-1517.	0.6	118
2	Maximum entropy principle for rarefied polyatomic gases. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 1302-1317.	1.2	92
3	On the hyperbolic system of a mixture of Eulerian fluids: a comparison between single- and multi-temperature models. Mathematical Methods in the Applied Sciences, 2007, 30, 827-849.	1.2	63
4	Average temperature and Maxwellian iteration in multitemperature mixtures of fluids. Physical Review E, 2009, 80, 026317.	0.8	41
5	Shock structure and temperature overshoot in macroscopic multi-temperature model of mixtures. Physics of Fluids, 2014, 26, .	1.6	30
6	Shock structure in helium-argon mixture â€"A comparison of hyperbolic multi-temperature model with experiment. Europhysics Letters, 2013, 102, 44002.	0.7	29
7	Polyatomic gases with dynamic pressure: Kinetic non-linear closure and the shock structure. International Journal of Non-Linear Mechanics, 2017, 92, 160-175.	1.4	19
8	Shock structure in continuum models of gas dynamics: stability and bifurcation analysis. Nonlinearity, 2009, 22, 1337-1366.	0.6	17
9	Moment Equations for Polyatomic Gases. Acta Applicandae Mathematicae, 2014, 132, 469-482.	0.5	15
10	Non-equilibrium theories of rarefied gases: internal variables and extended thermodynamics. Continuum Mechanics and Thermodynamics, 2021, 33, 307-325.	1.4	13
11	Shock Structure and Relaxation in the Multi-Component Mixture of Euler Fluids. Symmetry, 2021, 13, 955.	1.1	9
12	Open Mathematical Aspects of Continuum Thermodynamics: Hyperbolicity, Boundaries and Nonlinearities. Symmetry, 2020, 12, 1469.	1.1	7
13	Non-equilibrium diffusion temperatures in mixture of gases via Maxwellian iteration. Ricerche Di Matematica, 2017, 66, 293-312.	0.6	5
14	Entropy growth and entropy production rate in binary mixture shock waves. Physical Review E, 2019, 100, 023119.	0.8	5
15	On the symmetry approach to polynomial conservation laws of one-dimensional Lagrangian systems. International Journal of Non-Linear Mechanics, 2002, 37, 197-211.	1.4	4
16	Shock Structure in the Mixture of Gases: Stability and Bifurcation of Equilibria. , 0, , .		4
17	Shock structure and entropy growth in a gaseous binary mixture with viscous and thermal dissipation. Wave Motion, 2021, 100, 102661.	1.0	4
18	Maximum entropy principle approach to a non-isothermal Maxwellâ€"Stefan diffusion model. Applied Mathematics Letters, 2022, 129, 107949.	1.5	3

#	Article	IF	Citations
19	A note on shock profiles in dissipative hyperbolic and parabolic models. Publications De L'Institut Mathematique, 2008, 84, 97-107.	0.3	2
20	Moment closure hierarchies for rarefied gases. Theoretical and Applied Mechanics, 2015, 42, 261-276.	0.1	2
21	A Zel'dovich–von Neumann–Döring-like detonation wave in a multi-temperature mixture. Journal of Fluid Mechanics, 2019, 869, 674-705.	1.4	1
22	A variational approach to the shock structure problem. Theoretical and Applied Mechanics, 2005, 32, 39-63.	0.1	0
23	The Structure of Shock Waves in Dissipative Hyperbolic Models. Springer Proceedings in Mathematics and Statistics, 2015, , 335-353.	0.1	0
24	Stability of LevitronTM revisited. Theoretical and Applied Mechanics, 2017, 44, 255-270.	0.1	0