Srboljub SimiÄ

List of Publications by Year
in descending order

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24	483	933264 10	752573 20
papers	citations	h-index	g-index

24	24	24	152
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Maximum entropy principle approach to a non-isothermal Maxwellâ€“Stefan diffusion model. Applied Mathematics Letters, 2022, 129, 107949.	1.5	3
2	Non-equilibrium theories of rarefied gases: internal variables and extended thermodynamics. Continuum Mechanics and Thermodynamics, 2021, 33, 307-325.	1.4	13
3	Shock structure and entropy growth in a gaseous binary mixture with viscous and thermal dissipation. Wave Motion, 2021, 100, 102661.	1.0	4
4	Shock Structure and Relaxation in the Multi-Component Mixture of Euler Fluids. Symmetry, 2021, 13, 955.	1.1	9
5	Open Mathematical Aspects of Continuum Thermodynamics: Hyperbolicity, Boundaries and Nonlinearities. Symmetry, 2020, 12, 1469.	1.1	7
6	Entropy growth and entropy production rate in binary mixture shock waves. Physical Review E, 2019, 100, 023119.	0.8	5
7	A Zelâ€™dovichâ€“von Neumannâ€“DÃ¶ring-like detonation wave in a multi-temperature mixture. Journal of Fluid Mechanics, 2019, 869, 674-705.	1.4	1
8	Non-equilibrium diffusion temperatures in mixture of gases via Maxwellian iteration. Ricerche Di Matematica, 2017, 66, 293-312.	0.6	5
9	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
10	Stability of LevitronTM revisited. Theoretical and Applied Mechanics, 2017, 44, 255-270.	0.1	0
11	Moment closure hierarchies for rarefied gases. Theoretical and Applied Mechanics, 2015, 42, 261-276.	0.1	2
12	The Structure of Shock Waves in Dissipative Hyperbolic Models. Springer Proceedings in Mathematics and Statistics, 2015, , 335-353.	0.1	0
13	Shock structure and temperature overshoot in macroscopic multi-temperature model of mixtures. Physics of Fluids, 2014, 26, .	1.6	30
14	Moment Equations for Polyatomic Gases. Acta Applicandae Mathematicae, 2014, 132, 469-482.	0.5	15
15	Maximum entropy principle for rarefied polyatomic gases. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 1302-1317.	1.2	92
16	Shock structure in helium-argon mixture â€”A comparison of hyperbolic multi-temperature model with experiment. Europhysics Letters, 2013, 102, 44002.	0.7	29
17	Average temperature and Maxwellian iteration in multitemperature mixtures of fluids. Physical Review E, 2009, 80, 026317.	0.8	41
18	Shock structure in continuum models of gas dynamics: stability and bifurcation analysis. Nonlinearity, 2009, 22, 1337-1366.	0.6	17

#	Article	IF	Citations
19	Variational problems with fractional derivatives: Invariance conditions and NÃ¶therâ€™s theorem. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, 1504-1517.	0.6	118
20	A note on shock profiles in dissipative hyperbolic and parabolic models. Publications De L'Institut Mathematique, 2008, 84, 97-107.	0.3	2
21	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
22	A variational approach to the shock structure problem. Theoretical and Applied Mechanics, 2005, 32, 39-63.	0.1	0
23	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
24	Shock Structure in the Mixture of Gases: Stability and Bifurcation of Equilibria. , 0, , .		4