Shigeru Taniguchi

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29 536 13 23 g-index

30 586 1.9 3.94 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
29	Extended thermodynamics of real gases with dynamic pressure: An extension of Meixner theory. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 2799-2803	2.3	72
28	Thermodynamic theory of the shock wave structure in a rarefied polyatomic gas: beyond the Bethe-Teller theory. <i>Physical Review E</i> , 2014 , 89, 013025	2.4	63
27	Effect of the dynamic pressure on the shock wave structure in a rarefied polyatomic gas. <i>Physics of Fluids</i> , 2014 , 26, 016103	4.4	57
26	Dispersion relation for sound in rarefied polyatomic gases based on extended thermodynamics. <i>Continuum Mechanics and Thermodynamics</i> , 2013 , 25, 727-737	3.5	49
25	Monatomic rarefied gas as a singular limit of polyatomic gas in extended thermodynamics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013 , 377, 2136-2140	2.3	43
24	Non-linear extended thermodynamics of real gases with 6 fields. <i>International Journal of Non-Linear Mechanics</i> , 2015 , 72, 6-15	2.8	39
23	Overshoot of the non-equilibrium temperature in the shock wave structure of a rarefied polyatomic gas subject to the dynamic pressure. <i>International Journal of Non-Linear Mechanics</i> , 2016 , 79, 66-75	2.8	34
22	On the six-field model of fluids based on extended thermodynamics. <i>Meccanica</i> , 2014 , 49, 2181-2187	2.1	29
21	Monatomic gas as a singular limit of polyatomic gas in molecular extended thermodynamics with many moments. <i>Annals of Physics</i> , 2016 , 372, 83-109	2.5	18
20	A Study of Linear Waves Based on Extended Thermodynamics for Rarefied Polyatomic Gases. <i>Acta Applicandae Mathematicae</i> , 2014 , 132, 15-25	1.1	17
19	Shock Wave Structure in a Rarefied Polyatomic Gas Based on Extended Thermodynamics. <i>Acta Applicandae Mathematicae</i> , 2014 , 132, 583-593	1.1	16
18	Recent results on nonlinear extended thermodynamics of real gases with six fields Part I: general theory. <i>Ricerche Di Matematica</i> , 2016 , 65, 263-277	0.9	15
17	Shock-induced phase transition in systems of hard spheres with internal degrees of freedom. <i>Physical Review E</i> , 2010 , 81, 066307	2.4	13
16	On the sub-shock formation in extended thermodynamics. <i>International Journal of Non-Linear Mechanics</i> , 2018 , 99, 69-78	2.8	13
15	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	2.4	11
14	Non-polytropic effect on shock-induced phase transitions in a hard-sphere system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics,</i> 2010 , 374, 3315-3318	2.3	7
13	Recent results on nonlinear extended thermodynamics of real gases with six fields Part II: shock wave structure. <i>Ricerche Di Matematica</i> , 2016 , 65, 279-288	0.9	7

LIST OF PUBLICATIONS

12	Fluctuating hydrodynamics for a rarefied gas based on extended thermodynamics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics,</i> 2011 , 375, 2601-2605	2.3	6	
11	Shock Waves in Hyperbolic Systems of Nonequilibrium Thermodynamics. <i>Mathematics of Planet Earth</i> , 2019 , 167-186	0.4	6	
10	Shock wave structure in rarefied polyatomic gases with large relaxation time for the dynamic pressure. <i>Journal of Physics: Conference Series</i> , 2018 , 1035, 012009	0.3	6	
9	Shock-Induced Phase Transitions from Gas Phase to Solid Phase. <i>Journal of the Physical Society of Japan</i> , 2011 , 80, 083401	1.5	4	
8	Relationship between Maxwell Boundary Condition and Two Kinds of Stochastic Thermal Wall. Journal of the Physical Society of Japan, 2008 , 77, 124004	1.5	3	
7	A 2 (times) 2 simple model in which the sub-shock exists when the shock velocity is slower than the maximum characteristic velocity. <i>Ricerche Di Matematica</i> , 2019 , 68, 119-129	0.9	2	
6	Shock-Induced Phase Transitions in Systems of Hard Spheres with Attractive Interactions. <i>Acta Applicandae Mathematicae</i> , 2012 , 122, 473	1.1	2	
5	Phenomenological Approach to Heat Conduction in a One-Dimensional Hard-Point Gas beyond Local Equilibrium. <i>Journal of the Physical Society of Japan</i> , 2008 , 77, 014004	1.5	2	
4	Molecular extended thermodynamics: comparison between rarefied polyatomic and monatomic gas closures. <i>Ricerche Di Matematica</i> , 2017 , 66, 1-13	0.9	1	
3	Similarity solution of strong spherical shock waves in a rarefied polyatomic gas based on extended thermodynamics 2019 ,		1	
2	Galilean invariance and entropy principle for a system of balance laws of mixture type. <i>Atti Della Accademia Nazionale Dei Lincei, Classe Di Scienze Fisiche, Matematiche E Naturali, Rendiconti Lincei Matematica E Applicazioni</i> , 2017 , 28, 495-513	0.7	О	
1	Effect of the dynamic pressure on the similarity solution of cylindrical shock waves in a rarefied polyatomic gas. <i>Ricerche Di Matematica</i> , 2021 , 70, 195-206	0.9		