

Tommaso Ruggeri

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

184
papers

2,943
citations

30
h-index

49
g-index

232
ext. papers

3,292
ext. citations

1.9
avg, IF

5.88
L-index

#	Paper	IF	Citations
184	On a Relativistic BGK Model for Polyatomic Gases Near Equilibrium. <i>SIAM Journal on Mathematical Analysis</i> , 2022 , 54, 2906-2947	1.7	2
183	Monatomic-Gas Limit in Molecular ET of Polyatomic Gas 2021 , 273-294		
182	Phenomenological Nonlinear RET with 6 Fields 2021 , 303-328		
181	Nonlinear Molecular ET Theory with 6 Fields 2021 , 329-336		
180	Nonlinear ET7 Theory with Molecular Rotational and Vibrational Modes 2021 , 337-352		
179	Linear Sound Wave in a Rarefied Polyatomic Gas 2021 , 361-387		
178	Shock Wave in a Polyatomic Gas Analyzed by ET14 2021 , 389-407		
177	Shock Wave and Subshock Formation Analyzed by ET6 2021 , 409-431		
176	Mathematical Structure 2021 , 41-65		
175	Acceleration Wave, K-condition, and Global Existence in ET6 2021 , 439-444		
174	Light Scattering 2021 , 445-450		
173	Heat Conduction 2021 , 451-456		
172	RET of Dense Polyatomic Gas with Six Fields 2021 , 465-487		
171	RET of Dense Polyatomic Gas with Seven Fields 2021 , 489-514		
170	Relativistic Polyatomic Gas 2021 , 517-537		
169	Waves in Hyperbolic Systems 2021 , 67-106		
168	RET of Rarefied Monatomic Gas: Non-relativistic Theory 2021 , 109-157		

167	Relativistic RET of Rarefied Monatomic Gas 2021 , 159-175		
166	Macroscopic Theory of Rarefied Polyatomic Gas with 14 Fields 2021 , 179-200		
165	Molecular ET of Rarefied Polyatomic Gas with 14 Fields 2021 , 201-218		
164	Relaxation Processes of Molecular Rotation and Vibration: ET15 2021 , 219-242		
163	Nesting Theory of Many Moments and Maximum Entropy Principle 2021 , 243-271		
162	Nonequilibrium Temperature and Chemical Potential 2021 , 353-357		
161	Maxwellian iteration of a causal relativistic model of polyatomic gases and evaluation of bulk, shear viscosity and heat conductivity. <i>Annals of Physics</i> , 2021 , 428, 168447	2.5	5
160	Classical and ultrarelativistic limits of the Riemann problem for the relativistic Euler fluid with Synge energy. <i>Ricerche Di Matematica</i> , 2021 , 70, 223-233	0.9	1
159	Maximum entropy principle closure for 14-moment system for a non-polytropic gas. <i>Ricerche Di Matematica</i> , 2021 , 70, 207-222	0.9	5
158	Shock structure in extended thermodynamics with second-order maximum entropy principle closure. <i>Continuum Mechanics and Thermodynamics</i> , 2021 , 33, 125-150	3.5	3
157	Nonlinear Hyperbolic Waves in Relativistic Gases of Massive Particles with Synge Energy. <i>Archive for Rational Mechanics and Analysis</i> , 2021 , 239, 1061-1109	2.3	9
156	System of Balance Laws of Mixture Type: Mixture of Dissipative Polyatomic Gases 2021 , 597-606		
155	Shock Structure in a Macroscopic Model of Binary Mixtures 2021 , 575-590		
154	Multi-Temperature Mixture of Fluids 2021 , 547-573		
153	Kinetic and hydrodynamic models for the relativistic Cucker-Smale ensemble and emergent behaviors. <i>Communications in Mathematical Sciences</i> , 2021 , 19, 1945-1990	1	1
152	Hyperbolic Parabolic Limit, Maxwellian Iteration, and Objectivity 2021 , 619-626		
151	Open Problems and Outlook 2021 , 627-630		
150	Relativistic Mixture of Gases and Relativistic Cucker-Smale Model 2021 , 607-616		

149	Many-Moment RET of Relativistic Polyatomic Gas and Classical Optimal Limit 2021 , 539-544		
148	Flocking and Thermodynamical Cucker-Smale Model 2021 , 591-596		
147	Molecular Extended Thermodynamics of Rarefied Polyatomic Gases with a New Hierarchy of Moments. <i>Fluids</i> , 2021 , 6, 62	1.6	2
146	Uniform stability and uniform-in-time mean-field limit of the thermodynamic Kuramoto model. <i>Quarterly of Applied Mathematics</i> , 2021 , 79, 445-478	0.7	
145	Which moments are appropriate to describe gases with internal structure in Rational Extended Thermodynamics?. <i>International Journal of Non-Linear Mechanics</i> , 2021 , 103820	2.8	2
144	Emergent behaviors of the continuum thermodynamic Kuramoto model in a large coupling regime. <i>Journal of Differential Equations</i> , 2021 , 300, 519-564	2.1	0
143	Classical and Relativistic Rational Extended Thermodynamics of Gases 2021 ,		12
142	Relativistic Rational Extended Thermodynamics of Polyatomic Gases with a New Hierarchy of Moments.. <i>Entropy</i> , 2021 , 24,	2.8	1
141	Hyperbolicity of first and second order extended thermodynamics theory of polyatomic rarefied gases. <i>International Journal of Non-Linear Mechanics</i> , 2020 , 124, 103517	2.8	5
140	Classical Limit of Relativistic Moments Associated with Boltzmann-Chernikov Equation: Optimal Choice of Moments in Classical Theory. <i>Journal of Statistical Physics</i> , 2020 , 179, 231-246	1.5	11
139	Rational extended thermodynamics of dense polyatomic gases incorporating molecular rotation and vibration. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020 , 378, 20190176	3	6
138	Godunov Symmetric Systems and Rational Extended Thermodynamics 2020 , 321-327		1
137	On relativistic gasdynamics: invariance under a class of reciprocal-type transformations and integrable Heisenberg spin connections. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020 , 476, 20200487	2.4	3
136	Multiscale Phenomena in Continuum Mechanics: Mesoscopic Justification of Rational Extended Thermodynamics of Gases with Internal Structure. <i>Advances in Mechanics and Mathematics</i> , 2020 , 225-250 ²		
135	Rational extended thermodynamics: a link between kinetic theory and continuum theory. <i>Rendiconti Lincei</i> , 2020 , 31, 33-38	1.7	1
134	On invariance in 1+1-dimensional isentropic relativistic gasdynamics. <i>Wave Motion</i> , 2020 , 94, 102527	1.8	5
133	Emergent Behaviors of Thermodynamic Kuramoto Ensemble on a Regular Ring Lattice. <i>Journal of Statistical Physics</i> , 2020 , 181, 917-943	1.5	6
132	Second-order approximation of extended thermodynamics of a monatomic gas and hyperbolicity region. <i>Continuum Mechanics and Thermodynamics</i> , 2020 , 32, 23-39	3.5	13

131	From the Relativistic Mixture of Gases to the Relativistic Cucker-Smale Flocking. <i>Archive for Rational Mechanics and Analysis</i> , 2020 , 235, 1661-1706	2.3	14
130	Similarity solution of strong spherical shock waves in a rarefied polyatomic gas based on extended thermodynamics 2019 ,		1
129	Monatomic limit of relativistic extended thermodynamics of polyatomic gas. <i>Continuum Mechanics and Thermodynamics</i> , 2019 , 31, 401-412	3.5	10
128	Production terms in relativistic extended thermodynamics of gas with internal structure via a new BGK model. <i>Annals of Physics</i> , 2019 , 405, 298-307	2.5	11
127	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
126	Shock Waves in Hyperbolic Systems of Nonequilibrium Thermodynamics. <i>Mathematics of Planet Earth</i> , 2019 , 167-186	0.4	6
125	Integrability properties for relativistic extended thermodynamics of polyatomic gas. <i>Ricerche Di Matematica</i> , 2019 , 68, 57-73	0.9	4
124	Extended Thermodynamics of Rarefied Polyatomic Gases: 15-Field Theory Incorporating Relaxation Processes of Molecular Rotation and Vibration. <i>Entropy</i> , 2018 , 20,	2.8	24
123	Emergent Behaviors of Thermodynamic Cucker-Smale Particles. <i>SIAM Journal on Mathematical Analysis</i> , 2018 , 50, 3092-3121	1.7	24
122	Dynamical pressure in a polyatomic gas: Interplay between kinetic theory and extended thermodynamics. <i>Kinetic and Related Models</i> , 2018 , 11, 71-95	2.4	32
121	Molecular Extended Thermodynamics of a Rarefied Polyatomic Gas. <i>Springer INdAM Series</i> , 2018 , 265-287.	0.4	
120	On the sub-shock formation in extended thermodynamics. <i>International Journal of Non-Linear Mechanics</i> , 2018 , 99, 69-78	2.8	13
119	A New BGK Model for Relativistic Kinetic Theory of Monatomic and Polyatomic Gases. <i>Journal of Physics: Conference Series</i> , 2018 , 1035, 012005	0.3	15
118	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
117	Uniform stability and mean-field limit of a thermodynamic Cucker-Smale model. <i>Quarterly of Applied Mathematics</i> , 2018 , 77, 131-176	0.7	15
116	A global existence of classical solutions to the hydrodynamic Cucker-Smale model in presence of a temperature field. <i>Analysis and Applications</i> , 2018 , 16, 757-805	2.5	9
115	Relativistic Eulerian rarefied gas with internal structure. <i>Journal of Mathematical Physics</i> , 2018 , 59, 043102	0.2	11
114	Fluid mixtures in nanotubes. <i>Physical Review E</i> , 2018 , 97, 062152	2.4	2

113	Shock structure and multiple sub-shocks in binary mixtures of Eulerian fluids. <i>Ricerche Di Matematica</i> , 2017 , 66, 221-231	0.9	18
112	Molecular extended thermodynamics: comparison between rarefied polyatomic and monatomic gas closures. <i>Ricerche Di Matematica</i> , 2017 , 66, 1-13	0.9	1
111	Non-equilibrium diffusion temperatures in mixture of gases via Maxwellian iteration. <i>Ricerche Di Matematica</i> , 2017 , 66, 293-312	0.9	4
110	Relativistic extended thermodynamics of rarefied polyatomic gas. <i>Annals of Physics</i> , 2017 , 377, 414-445	2.5	30
109	Rational extended thermodynamics of a rarefied polyatomic gas with molecular relaxation processes. <i>Physical Review E</i> , 2017 , 96, 042143	2.4	29
108	Emergent Dynamics of a Thermodynamically Consistent Particle Model. <i>Archive for Rational Mechanics and Analysis</i> , 2017 , 223, 1397-1425	2.3	38
107	Symmetric form for the hyperbolic-parabolic system of fourth-gradient fluid model. <i>Ricerche Di Matematica</i> , 2017 , 66, 491-508	0.9	1
106	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	0
105	Duality principle from rarefied to dense gas and extended thermodynamics with six fields. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	13
104	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
103	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
102	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
101	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
100	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
99	Molecular Non-linear ET6 for Rarefied Polyatomic Gas 2015 , 271-278		
98	Extended thermodynamics of dense gases in the presence of dynamic pressure. <i>Ricerche Di Matematica</i> , 2015 , 64, 403-419	0.9	12
97	Rational Extended Thermodynamics beyond the Monatomic Gas 2015 ,		109
96	Shock Structure and Temperature Overshoot in Macroscopic Model of Mixtures 2015 , 339-349		1

95	Application of ET6: Shock Wave and Sub-shock Formation 2015 , 279-291		
94	Nonequilibrium Temperature and Chemical Potential 2015 , 299-305		
93	Mathematical Structure 2015 , 35-53		
92	Waves in Hyperbolic Systems 2015 , 55-76		
91	RET of Rarefied Monatomic Gas 2015 , 79-106		1
90	Shock Wave in a Polyatomic Gas 2015 , 173-192		
89	Non-linear ET6 and the Role of the Dynamic Pressure: Phenomenological Approach 2015 , 245-269		
88	Multi-Temperature Mixture of Fluids 2015 , 309-337		
87	Maximum Entropy Principle for Rarefied Polyatomic Gas 2015 , 139-151		0
86	Light Scattering, Heat Conduction, and Fluctuation 2015 , 193-210		
85	Linear Wave in a Polyatomic Gas 2015 , 155-171		
84	Molecular ET Theory of Rarefied Polyatomic Gas 2015 , 213-241		
83	Acceleration Wave, K-Condition, and Global Existence in ET6 2015 , 293-298		
82	RET 14-Field Theory of Polyatomic Gas and Dense Gas 2015 , 109-137		
81	Hyperbolic Parabolic Limit, Maxwellian Iteration and Objectivity 2015 , 353-361		
80	On the six-field model of fluids based on extended thermodynamics. <i>Meccanica</i> , 2014 , 49, 2181-2187	2.1	29
79	The Bard problem for quasi-thermal-incompressible materials: A linear analysis. <i>International Journal of Non-Linear Mechanics</i> , 2014 , 67, 178-185	2.8	9
78	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

77	The Propagation of Shock Waves in Incompressible Fluids: The Case of Freshwater. <i>Acta Applicandae Mathematicae</i> , 2014 , 132, 427-437	1.1	1
76	The Lagrangian View-Point Compared with the Eulerian One, in the Framework of Extended Thermodynamics. <i>Acta Applicandae Mathematicae</i> , 2014 , 132, 199-212	1.1	5
75	Recent Developments in Extended Thermodynamics of Dense and Rarefied Polyatomic Gases. <i>Acta Applicandae Mathematicae</i> , 2014 , 132, 527-548	1.1	15
74	Shock Wave Structure in a Rarefied Polyatomic Gas Based on Extended Thermodynamics. <i>Acta Applicandae Mathematicae</i> , 2014 , 132, 583-593	1.1	16
73	Molecular extended thermodynamics of rarefied polyatomic gases and wave velocities for increasing number of moments. <i>Annals of Physics</i> , 2014 , 345, 111-140	2.5	55
72	Entropy Principle and Recent Results in Non-Equilibrium Theories. <i>Entropy</i> , 2014 , 16, 1756-1807	2.8	74
71	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
70	Shock structure and temperature overshoot in macroscopic multi-temperature model of mixtures. <i>Physics of Fluids</i> , 2014 , 26, 106102	4.4	24
69	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
68	Dispersion relation in the limit of high frequency for a hyperbolic system with multiple eigenvalues. <i>Wave Motion</i> , 2014 , 51, 955-966	1.8	11
67	q-Gaussian integrable Hamiltonian reductions in anisentropic gasdynamics. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2014 , 19, 2297-2312	1.3	4
66	Extended thermodynamics of rarefied polyatomic gases and characteristic velocities. <i>Atti Della Accademia Nazionale Dei Lincei, Classe Di Scienze Fisiche, Matematiche E Naturali, Rendiconti Lincei Matematica E Applicazioni</i> , 2014 , 25, 275-291	0.7	3
65	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
64	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
63	The Riemann problem for a hyperbolic model of incompressible fluids. <i>International Journal of Non-Linear Mechanics</i> , 2013 , 51, 87-96	2.8	8
62	Maximum entropy principle for rarefied polyatomic gases. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013 , 392, 1302-1317	3.3	77
61	Travelling waves near a critical point of a binary fluid mixture. <i>International Journal of Non-Linear Mechanics</i> , 2012 , 47, 77-84	2.8	4
60	A consistent thermodynamical model of incompressible media as limit case of quasi-thermal-incompressible materials. <i>International Journal of Non-Linear Mechanics</i> , 2012 , 47, 688-693 ^{2.8}		13

59	Extended thermodynamics of dense gases. <i>Continuum Mechanics and Thermodynamics</i> , 2012 , 24, 271-292	3.5	93
58	On the Müller paradox for thermal-incompressible media. <i>Continuum Mechanics and Thermodynamics</i> , 2012 , 24, 505-513	3.5	15
57	WASCOM XVII International Conference on Waves and Stability in Continuous Media. <i>Acta Applicandae Mathematicae</i> , 2012 , 122, 1	1.1	
56	Extended thermodynamics of real gases with dynamic pressure: An extension of Meixner's theory. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 2799-2803	2.3	72
55	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	1
54	Can constitutive relations be represented by non-local equations?. <i>Quarterly of Applied Mathematics</i> , 2012 , 70, 597-611	0.7	26
53	Admissible shock waves and shock-induced phase transitions in a van der Waals fluid. <i>Physics of Fluids</i> , 2011 , 23, 086101	4.4	61
52	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
51	Some Recent Results on Multi-temperature Mixture of Fluids 2010 , 39-57		2
50	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
49	The dynamics of spreading and immune strategies of sexually transmitted diseases on scale-free network. <i>Journal of Mathematical Analysis and Applications</i> , 2010 , 365, 210-219	1.1	32
48	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
47	Average temperature and Maxwellian iteration in multitemperature mixtures of fluids. <i>Physical Review E</i> , 2009 , 80, 026317	2.4	35
46	AN IMPULSIVE DIFFERENTIAL MODEL ON POST EXPOSURE PROPHYLAXIS TO HIV-1 EXPOSED INDIVIDUAL. <i>Journal of Biological Systems</i> , 2009 , 17, 659-683	1.6	12
45	Heat conduction in multi-temperature mixtures of fluids: the role of the average temperature. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 3052-3055	2.3	34
44	Dynamical pressure for fluid mixtures with several temperatures. <i>Mecanique Et Industries</i> , 2009 , 10, 239-243		
43	Multi-temperature mixture of fluids. <i>Theoretical and Applied Mechanics</i> , 2009 , 36, 207-238	0.4	14
42	Phase transition induced by a shock wave in hard-sphere and hard-disk systems. <i>Journal of Chemical Physics</i> , 2008 , 129, 054506	3.9	14

41	Identification of an average temperature and a dynamical pressure in a multitemperature mixture of fluids. <i>Physical Review E</i> , 2008 , 78, 016303	2.4	28
40	The Entropy Principle from Continuum Mechanics to Hyperbolic Systems of Balance Laws: The Modern Theory of Extended Thermodynamics. <i>Entropy</i> , 2008 , 10, 319-333	2.8	6
39	Interaction between a shock and an acceleration wave in a perfect gas for increasing shock strength. <i>Wave Motion</i> , 2008 , 45, 498-517	1.8	36
38	From Extended Thermodynamics to Granular Materials. <i>Lecture Notes in Mathematics</i> , 2008 , 91-107	0.4	
37	On the hyperbolic system of a mixture of Eulerian fluids: a comparison between single- and multi-temperature models. <i>Mathematical Methods in the Applied Sciences</i> , 2007 , 30, 827-849	2.3	49
36	A time delay model about AIDS-related cancer: equilibria, cycles and chaotic behavior. <i>Ricerche Di Matematica</i> , 2007 , 56, 195-208	0.9	12
35	CYCLES AND CHAOTIC BEHAVIOR IN AN AIDS-RELATED CANCER DYNAMIC MODEL IN VIVO. <i>Journal of Biological Systems</i> , 2007 , 15, 149-168	1.6	5
34	A new method to exploit the Entropy Principle and galilean invariance in the macroscopic approach of Extended Thermodynamics. <i>Ricerche Di Matematica</i> , 2006 , 55, 159-179	0.9	14
33	Modeling cancer in hiv-1 infected individuals: equilibria, cycles and chaotic behavior. <i>Mathematical Biosciences and Engineering</i> , 2006 , 3, 313-24	2.1	9
32	Global existence of smooth solutions and stability of the constant state for dissipative hyperbolic systems with applications to extended thermodynamics 2005 , 215-224		3
31	Hyperbolicity, convexity and shock waves in one-dimensional crystalline solids. <i>Journal of Physics A</i> , 2005 , 38, 4337-4347		6
30	GLOBAL EXISTENCE, STABILITY AND NON LINEAR WAVE PROPAGATION IN BINARY MIXTURES OF EULER FLUIDS 2005 ,		3
29	Stability of constant equilibrium state for dissipative balance laws system with a convex entropy. <i>Quarterly of Applied Mathematics</i> , 2004 , 62, 163-179	0.7	50
28	Energy momentum, wave velocities and characteristic shocks in Euler's variational equations with application to the Born-Infeld theory. <i>Journal of Mathematical Physics</i> , 2004 , 45, 3468-3478	1.2	8
27	Stationary heat conduction in radially, symmetric situations: an application of extended thermodynamics. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2004 , 119, 139-143	2.7	21
26	THE RIEMANN PROBLEM FOR A BINARY NON-REACTING MIXTURE OF EULER FLUIDS 2004 ,		3
25	Entropy Production and Admissibility of Shocks. <i>Acta Mathematicae Applicatae Sinica</i> , 2003 , 19, 1-12	0.3	22
24	Entropy principle for the moment systems of degree α associated to the Boltzmann equation. Critical derivatives and non controllable boundary data. <i>Continuum Mechanics and Thermodynamics</i> , 2002 , 14, 165-189	3.5	28

23	The Binary Mixtures of Euler Fluids: A Unified Theory of Second Sound Phenomena 2001 , 79-91		5
22	Similarity Solutions and Strong Shocks in Extended Thermodynamics of Rarefied Gas. <i>Journal of Mathematical Analysis and Applications</i> , 2000 , 251, 395-405	1.1	12
21	Temperature jumps at the boundary of a rarefied gas. <i>Continuum Mechanics and Thermodynamics</i> , 2000 , 12, 19-29	3.5	9
20	Relativistic gas: Moment equations and maximum wave velocity. <i>Journal of Mathematical Physics</i> , 1999 , 40, 6399-6406	1.2	16
19	Maximum wave velocity in the moments system of a relativistic gas. <i>Continuum Mechanics and Thermodynamics</i> , 1999 , 11, 107-111	3.5	26
18	Maximum velocity for wave propagation in a relativistic rarefied gas. <i>Continuum Mechanics and Thermodynamics</i> , 1999 , 11, 331-338	3.5	9
17	On the shock structure problem for hyperbolic system of balance laws and convex entropy. <i>Continuum Mechanics and Thermodynamics</i> , 1998 , 10, 285-292	3.5	82
16	Moment equations in the kinetic theory of gases and wave velocities. <i>Continuum Mechanics and Thermodynamics</i> , 1997 , 9, 205-212	3.5	77
15	Hyperbolic Principal Subsystems: Entropy Convexity and Subcharacteristic Conditions. <i>Archive for Rational Mechanics and Analysis</i> , 1997 , 137, 305-320	2.3	119
14	On the shock structure problem in non-equilibrium Thermodynamics of gases. <i>Transport Theory and Statistical Physics</i> , 1996 , 25, 567-574		7
13	Non existence of shock structure solutions for hyperbolic dissipative systems including characteristic shocks. <i>Applicable Analysis</i> , 1995 , 57, 23-33	0.8	6
12	Breakdown of shock-wave-structure solutions. <i>Physical Review E</i> , 1993 , 47, 4135-4140	2.4	38
11	Extended Thermodynamics. <i>Springer Tracts in Natural Philosophy</i> , 1993 ,		265
10	Hyperbolicity and wave propagation in extended thermodynamics. <i>Meccanica</i> , 1989 , 24, 127-138	2.1	9
9	Acceleration waves, shock formation and stability in a gravitating atmosphere. <i>Astrophysics and Space Science</i> , 1989 , 153, 127-142	1.6	6
8	Relativistic extended thermodynamics: General assumptions and mathematical procedure. <i>Lecture Notes in Mathematics</i> , 1989 , 269-277	0.4	4
7	Entropy Principle, Symmetric Hyperbolic Systems and Shock Waves. <i>North-Holland Mathematics Studies</i> , 1984 , 97, 211-220		5
6	Hyperbolicity of the 3+1 system of Einstein equations. <i>Communications in Mathematical Physics</i> , 1983 , 89, 269-275	2	69

5	Convex covariant entropy density, symmetric conservative form, and shock waves in relativistic magnetohydrodynamics. <i>Journal of Mathematical Physics</i> , 1981 , 22, 1824-1827	1.2	26
4	Interaction between a discontinuity wave and a shock wave: critical time for the fastest transmitted wave, example of the polytropic fluid. <i>Applicable Analysis</i> , 1980 , 11, 103-112	0.8	30
3	On the evolution law of weak discontinuities for hyperbolic quasi-linear systems. <i>Wave Motion</i> , 1979 , 1, 149-152	1.8	87
2	Reflection and transmission of discontinuity waves through a shock wave. General theory including also the case of characteristic shocks. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1979 , 83, 17-24	1	43
1	Onde di discontinuità ed equazioni costitutive nei corpi elastici isotropi sottoposti a deformazioni finite. <i>Annali Di Matematica Pura Ed Applicata</i> , 1977 , 112, 315-332	0.8	7