

# David Jou

## List of Publications by Year in descending order

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367  
papers

8,964  
citations

70961

41  
h-index

85405

71  
g-index

377  
all docs

377  
docs citations

377  
times ranked

2659  
citing authors

#	ARTICLE	IF	CITATIONS
1	Extended irreversible thermodynamics. Reports on Progress in Physics, 1988, 51, 1105-1179.	8.1	512
2	Understanding Non-equilibrium Thermodynamics. , 2008, , .		432
3	Temperature in non-equilibrium states: a review of open problems and current proposals. Reports on Progress in Physics, 2003, 66, 1937-2023.	8.1	384
4	Extended Irreversible Thermodynamics. , 2010, , .		344
5	Extended irreversible thermodynamics revisited (1988-98). Reports on Progress in Physics, 1999, 62, 1035-1142.	8.1	229
6	Extended Irreversible Thermodynamics. , 1996, , .		213
7	Extended Irreversible Thermodynamics. , 2001, , .		199
8	Extended Irreversible Thermodynamics. , 1993, , .		194
9	Causal Friedmann-Robertson-Walker cosmology. Classical and Quantum Gravity, 1991, 8, 347-360.	1.5	168
10	Memory and nonlocal effects in heat transport: From diffusive to ballistic regimes. Applied Physics Letters, 2007, 90, 083109.	1.5	163
11	Diffuse-interface model for rapid phase transformations in nonequilibrium systems. Physical Review E, 2005, 71, 046125.	0.8	160
12	Non-equilibrium thermodynamics and anomalous diffusion. Journal of Physics A, 1996, 29, 4321-4329.	1.6	150
13	The bioelements, the elementome, and the biogeochemical niche. Ecology, 2019, 100, e02652.	1.5	139
14	Phonon hydrodynamics and phonon-boundary scattering in nanosystems. Journal of Applied Physics, 2009, 105, .	1.1	125
15	An extension of the local equilibrium hypothesis. Journal of Physics A, 1980, 13, 275-290.	1.6	115
16	Pore-size dependence of the thermal conductivity of porous silicon: A phonon hydrodynamic approach. Applied Physics Letters, 2010, 97, .	1.5	115
17	Nonequilibrium temperature versus local-equilibrium temperature. Physical Review E, 1994, 49, 1040-1048.	0.8	101
18	Entropy Principle and Recent Results in Non-Equilibrium Theories. Entropy, 2014, 16, 1756-1807.	1.1	93

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19	Nonlocal effects and second sound in a nonequilibrium steady state. <i>Physical Review B</i> , 2009, 79, .	1.1	91
20	Rapid solidification as non-ergodic phenomenon. <i>Physics Reports</i> , 2019, 818, 1-70.	10.3	83
21	Nonequilibrium temperatures, heat waves, and nonlinear heat transport equations. <i>Physical Review B</i> , 2010, 81, .	1.1	80
22	On the foundations of extended irreversible thermodynamics. <i>Journal of Statistical Physics</i> , 1984, 37, 465-484.	0.5	73
23	Solute trapping in rapid solidification of a binary dilute system: A phase-field study. <i>Physical Review E</i> , 2011, 84, 041143.	0.8	73
24	Size and frequency dependence of effective thermal conductivity in nanosystems. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	71
25	Mesoscopic Theories of Heat Transport in Nanosystems. <i>SEMA SIMAI Springer Series</i> , 2016, , .	0.4	69
26	Equations of state and transport equations in viscous cosmological models. <i>Physical Review D</i> , 1993, 48, 1597-1601.	1.6	66
27	Possible experiment to check the reality of a nonequilibrium temperature. <i>Physical Review A</i> , 1992, 45, 8371-8373.	1.0	63
28	Nonlinear evolution and stability of the heat flow in nanosystems: Beyond linear phonon hydrodynamics. <i>Physical Review B</i> , 2010, 82, .	1.1	63
29	On the nonequilibrium thermodynamics of non-Fickian diffusion. <i>Macromolecules</i> , 1991, 24, 3597-3602.	2.2	59
30	Second law of thermodynamics and phonon-boundary conditions in nanowires. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	58
31	Generalized hydrodynamics and extended irreversible thermodynamics. <i>Physical Review A</i> , 1985, 31, 2502-2508.	1.0	56
32	Extended Irreversible Thermodynamics: Evolution Equations. , 2010, , 41-70.		54
33	Temperature dependence of boundary conditions in phonon hydrodynamics of smooth and rough nanowires. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	53
34	Nonequilibrium absolute temperature, thermal waves and phonon hydrodynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1990, 163, 47-58.	1.2	52
35	A phenomenological scaling approach for heat transport in nano-systems. <i>Applied Mathematics Letters</i> , 2005, 18, 963-967.	1.5	52
36	Anomalous diffusion in linear shear flows. <i>Journal of Physics A</i> , 1997, 30, 1023-1030.	1.6	50

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37	Foundations and applications of a mesoscopic thermodynamic theory of fast phenomena. <i>Physical Review E</i> , 1996, 53, 498-506.	0.8	49
38	Thermodynamic variables in the context of a nonequilibrium statistical ensemble approach. <i>Journal of Chemical Physics</i> , 1997, 107, 7383-7396.	1.2	49
39	Weakly Nonlocal And Nonlinear Heat Transport In Rigid Solids. <i>Journal of Non-Equilibrium Thermodynamics</i> , 1998, 23, .	2.4	46
40	Analytical expression for thermal conductivity of superlattices. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	46
41	Heat waves and phonon-wall collisions in nanowires. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011, 467, 2520-2533.	1.0	46
42	Nonlocal heat transport with phonons and electrons: Application to metallic nanowires. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 2338-2344.	2.5	46
43	Irreversible-thermodynamic approach to nonequilibrium heat fluctuations. <i>Physical Review A</i> , 1982, 25, 508-518.	1.0	44
44	Characterization and measurement of a nonequilibrium temperature-like variable in irreversible thermodynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 234, 699-714.	1.2	44
45	Kinetic contribution to the fast spinodal decomposition controlled by diffusion. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 3113-3123.	1.2	44
46	On the selection of the state space in nonequilibrium thermodynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 248, 111-137.	1.2	42
47	Non-equilibrium thermodynamics, heat transport and thermal waves in laminar and turbulent superfluid helium. <i>Physics Reports</i> , 2018, 726, 1-71.	10.3	42
48	Nonlocal and nonlinear effects in shock waves. <i>Physical Review A</i> , 1991, 44, 6496-6502.	1.0	40
49	Hydrodynamical fluctuations in extended irreversible thermodynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1980, 101, 588-598.	1.2	39
50	Thermodynamic pressure in nonequilibrium gases. <i>Physical Review E</i> , 1995, 51, 158-163.	0.8	39
51	Questions and answers about a thermodynamic theory of the third type. <i>Contemporary Physics</i> , 1992, 33, 41-51.	0.8	37
52	Nonequilibrium temperatures and second-sound propagation along nanowires and thin layers. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 4386-4392.	0.9	37
53	Thermodynamics of Fluids Under Flow. , 2011, , .		37
54	Nonequilibrium kinetic temperatures in flowing gases. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 350, 339-341.	0.9	36

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55	Thermodynamical derivation of a hydrodynamical model of inhomogeneous superfluid turbulence. <i>Physical Review B</i> , 2007, 75, .	1.1	36
56	Mesoscopic transport equations and contemporary thermodynamics: an introduction. <i>Contemporary Physics</i> , 2011, 52, 465-474.	0.8	36
57	Variational principles for thermal transport in nanosystems with heat slip flow. <i>Physical Review E</i> , 2010, 82, 031128.	0.8	35
58	Evolution of dissipative processes via a statistical thermodynamic approach. I. Generalized Mori's Heisenberg-Langevin equations. <i>Journal of Chemical Physics</i> , 1998, 108, 7568-7579.	1.2	34
59	Two-dimensional phonon hydrodynamics in narrow strips. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150376.	1.0	34
60	Definition of nonequilibrium chemical potential: phase separation of polymers in shear flow. <i>Macromolecules</i> , 1991, 24, 2834-2840.	2.2	33
61	Geometrical dependence of thermal conductivity in elliptical and rectangular nanowires. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 3114-3120.	2.5	33
62	Entropy flux and anomalous axial heat transport at the nanoscale. <i>Physical Review B</i> , 2013, 87, .	1.1	32
63	Thermoelectric effects and size dependency of the figure-of-merit in cylindrical nanowires. <i>International Journal of Heat and Mass Transfer</i> , 2013, 57, 109-116.	2.5	32
64	A Dynamical Interpretation of Second-Order Constitutive Equations of Hydrodynamics. <i>Journal of Non-Equilibrium Thermodynamics</i> , 1979, 4, .	2.4	31
65	On a phenomenological non-equilibrium entropy for a class of rigid heat conductors. <i>Journal of Physics A</i> , 1981, 14, 1225-1231.	1.6	31
66	A nonclassical thermodynamic description of heat conducting viscous fluids. <i>Journal of Chemical Physics</i> , 1982, 77, 970-978.	1.2	31
67	On a non-equilibrium partition function for heat conduction. <i>Journal of Physics A</i> , 1984, 17, 2799-2805.	1.6	31
68	Thermodynamic stability and temperature overshooting in dual-phase-lag heat transfer. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998, 248, 172-178.	0.9	31
69	Non-local effects in radial heat transport in silicon thin layers and graphene sheets. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 1217-1229.	1.0	31
70	Analysis of three nonlinear effects in a continuum approach to heat transport in nanosystems. <i>Physica D: Nonlinear Phenomena</i> , 2012, 241, 1344-1350.	1.3	31
71	Phonon Boundary Effects and Thermal Conductivity of Rough Concentric Nanowires. <i>Journal of Heat Transfer</i> , 2011, 133, .	1.2	30
72	Hydrodynamic equations of anisotropic, polarized and inhomogeneous superfluid vortex tangles. <i>Physica D: Nonlinear Phenomena</i> , 2011, 240, 249-258.	1.3	30

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73	A thermodynamic approach to heat and electric conduction in solids. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1983, 121, 552-562.	1.2	29
74	Non-equilibrium hydrodynamic fluctuations and a generalised entropy. <i>Journal of Physics A</i> , 1982, 15, 3195-3208.	1.6	28
75	Extended irreversible thermodynamics and its relation with other continuum approaches. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2001, 96, 77-104.	1.0	28
76	Constitutive equations for heat conduction in nanosystems and nonequilibrium processes: an overview. <i>Communications in Applied and Industrial Mathematics</i> , 2016, 7, 196-222.	0.6	28
77	Thermodynamic aspects of continued-fraction expansions in heat conduction. <i>Journal of Physics A</i> , 1986, 19, 2881-2890.	1.6	27
78	Second sound, superfluid turbulence, and intermittent effects in liquid helium II. <i>Physical Review B</i> , 2002, 66, .	1.1	27
79	Measuring nonequilibrium temperature of forced oscillators. <i>Physical Review E</i> , 2003, 67, 026121.	0.8	27
80	Description and evolution of anisotropy in superfluid vortex tangles with counterflow and rotation. <i>Physical Review B</i> , 2006, 74, .	1.1	27
81	Boundary Conditions and Evolution of Ballistic Heat Transport. <i>Journal of Heat Transfer</i> , 2010, 132, .	1.2	27
82	Phonon-wall interactions and frequency-dependent thermal conductivity in nanowires. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	26
83	Thermodynamics of polymer solutions under flow: Phase separation and polymer degradation. <i>Advances in Polymer Science</i> , 1995, , 207-266.	0.4	26
84	On a Ginzburg-Landau constitutive equation for the evolution and fluctuations of the heat flux. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1980, 104, 320-332.	1.2	25
85	Thermodynamic aspects of nonequilibrium current fluctuations. <i>Physical Review A</i> , 1982, 25, 3277-3280.	1.0	25
86	Hydrodynamic interactions and the shear-induced shift of the critical point in polymer solutions. <i>Polymer</i> , 1995, 36, 4107-4112.	1.8	25
87	Nonlinear and Hamiltonian extended irreversible thermodynamics. <i>Journal of Chemical Physics</i> , 1998, 108, 7937-7945.	1.2	25
88	Phenomenological description of counterflow superfluid turbulence in rotating containers. <i>Physical Review B</i> , 2004, 69, .	1.1	25
89	Heat fluctuations and phonon hydrodynamics in nanowires. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	25
90	On the thermodynamics of dilute dumbbell solutions under shear. <i>Journal of Chemical Physics</i> , 1990, 92, 1339-1344.	1.2	24

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91	Cross-plane thermal conductivity reduction of vertically uncorrelated Ge <sup>δ</sup> Si quantum dot superlattices. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	24
92	Coarse graining for the phase-field model of fast phase transitions. <i>Physical Review E</i> , 2013, 88, 042151.	0.8	24
93	Heat conduction in relativistic extended thermodynamics. <i>Journal of Physics A</i> , 1980, 13, L77-L79.	1.6	23
94	Two continuum approaches to a wavelength-dependent description of heat conduction. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1981, 107, 393-403.	1.2	23
95	Hydrodynamic fluctuations, nonequilibrium equations of state, and the shift of the spinodal line in polymer solutions under flow. <i>Physical Review E</i> , 1997, 56, 1887-1890.	0.8	23
96	Entropy flux in non-equilibrium thermodynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 338, 445-457.	1.2	23
97	Thermal rectification in inhomogeneous nanoporous Si devices. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	23
98	Multi-temperature mixture of phonons and electrons and nonlocal thermoelectric transport in thin layers. <i>International Journal of Heat and Mass Transfer</i> , 2014, 71, 459-468.	2.5	23
99	A thermodynamic model for heat transport and thermal wave propagation in graded systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 73, 242-249.	1.3	23
100	Early history of extended irreversible thermodynamics (1953â€“1983): An exploration beyond local equilibrium and classical transport theory. <i>European Physical Journal H</i> , 2015, 40, 205-240.	0.5	23
101	Nonequilibrium thermodynamics of phonon hydrodynamic model for nanoscale heat transport. <i>Physical Review B</i> , 2018, 98, .	1.1	23
102	Dynamical and Thermodynamical Approaches to Phase Separation in Polymer Solutions Under Flow. <i>Europhysics Letters</i> , 1993, 23, 469-474.	0.7	22
103	Theoretical analysis of thermal rectification in a bulk Si/nanoporous Si device. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 1641-1644.	0.9	22
104	Thermal rectifier efficiency of various bulkâ€“nanoporous silicon devices. <i>International Journal of Heat and Mass Transfer</i> , 2016, 97, 603-610.	2.5	22
105	A generalised Gibbs equation for second-order fluids. <i>Journal of Physics A</i> , 1979, 12, 2515-2520.	1.6	21
106	Electric current fluctuations in extended irreversible thermodynamics. <i>Journal of Physics A</i> , 1980, 13, L47-L49.	1.6	21
107	A simple nonequilibrium thermodynamic description of some inhibitors of oxidative phosphorylation. <i>Journal of Theoretical Biology</i> , 1985, 117, 471-488.	0.8	21
108	Extended Irreversible Thermodynamics: An Overview of Recent Bibliography. <i>Journal of Non-Equilibrium Thermodynamics</i> , 1992, 17, .	2.4	21

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109	Transition to ballistic regime for heat transport in helium II. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2471-2477.	0.9	21
110	Influence of electron and phonon temperature on the efficiency of thermoelectric conversion. International Journal of Heat and Mass Transfer, 2015, 80, 344-352.	2.5	21
111	Heat Fluctuations and a generalized Gibbs equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1979, 72, 78-80.	0.9	20
112	Equilibrium and non-equilibrium fluctuations in relativistic fluids. Journal of Physics A, 1983, 16, 775-781.	1.6	20
113	Evolution of dissipative processes via a statistical thermodynamic approach. II. Thermodynamic properties of a fluid of bosons. Journal of Chemical Physics, 1998, 108, 7580-7586.	1.2	20
114	Fluctuations and stochastic noise in systems with hyperbolic mass transport. Physica A: Statistical Mechanics and Its Applications, 2006, 366, 149-158.	1.2	20
115	Beyond the Fourier heat conduction law and the thermal no-slip boundary condition. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 2842-2846.	0.9	20
116	Phonon temperature and electron temperature in thermoelectric coupling. Journal of Non-Equilibrium Thermodynamics, 2013, 38, .	2.4	20
117	A Continuum Theory of Liquid Helium II Based on the Classical Theory of Irreversible Processes. Journal of Non-Equilibrium Thermodynamics, 1979, 4, .	2.4	19
118	Rectification of low-frequency thermal waves in graded SiGe $_{1-x}$ . Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 1824-1829.	0.9	19
119	On the fast and the slow components of thermal fluctuations. Physica A: Statistical Mechanics and Its Applications, 1981, 109, 208-220.	1.2	18
120	Carnot cycles and a non-equilibrium absolute temperature. Journal of Physics A, 1987, 20, 5371-5378.	1.6	18
121	Thermodynamics of ideal gases under shear: a maximum-entropy approach. Physica A: Statistical Mechanics and Its Applications, 1996, 233, 163-174.	1.2	18
122	Generalization of Vinen's equation including transition to superfluid turbulence. Journal of Physics Condensed Matter, 2005, 17, 4423-4440.	0.7	18
123	Extended irreversible thermodynamics of heat transport. A brief introduction. Proceedings of the Estonian Academy of Sciences, 2008, 57, 118.	0.9	18
124	Longitudinal counterflow in turbulent liquid helium: velocity profile of the normal component. Zeitschrift Fur Angewandte Mathematik Und Physik, 2014, 65, 531-548.	0.7	18
125	Cosmological perturbations in a universe with particle production. Classical and Quantum Gravity, 1993, 10, 1775-1789.	1.5	17
126	Nonequilibrium chemical potential and shear-induced migration of polymers in dilute solutions. Polymer, 2000, 41, 2633-2638.	1.8	17



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127	A Hamiltonian formulation for two hierarchies of thermodynamic evolution equations. Journal of Physics A, 1991, 24, 741-751.	1.6	16
128	Nonequilibrium Lagrange Multipliers and Heat-Flux Saturation. Journal of Non-Equilibrium Thermodynamics, 1995, 20, .	2.4	16
129	Recent Bibliography on Extended Irreversible Thermodynamics and Related Topics (1995â€™1998). Journal of Non-Equilibrium Thermodynamics, 1998, 23, .	2.4	16
130	Shear induced polymer migration: analysis of the evolution of concentration profiles. Polymer, 2000, 41, 8425-8432.	1.8	16
131	Higher-order hydrodynamics: Extended Fickâ€™s Law, evolution equation, and Bobylevâ€™s instability. Journal of Chemical Physics, 2002, 116, 1571-1584.	1.2	16
132	Focusing of heat pulses along nonequilibrium nanowires. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 374, 313-318.	0.9	16
133	Thermal conductivity of thin single-crystalline germanium-on-insulator structures. International Journal of Heat and Mass Transfer, 2011, 54, 1959-1962.	2.5	16
134	A simple model of thermoelastic heat switches and heat transistors. Journal of Applied Physics, 2017, 121, 024503.	1.1	16
135	Higher-order fluxes and the speed of thermal waves. International Journal of Heat and Mass Transfer, 1991, 34, 3055-3060.	2.5	15
136	Second-sound wave in photoinjected plasma in semiconductors. Physical Review B, 1995, 52, 5030-5035.	1.1	15
137	Nonequilibrium thermodynamics of unsteady superfluid turbulence in counterflow and rotating situations. Physical Review B, 2005, 72, .	1.1	15
138	Effective thermal conductivity of helium II: from Landau to Gorterâ€™Mellink regimes. Zeitschrift Fur Angewandte Mathematik Und Physik, 2015, 66, 1835-1851.	0.7	15
139	Computational analysis of heat rectification in composition-graded systems: From macro-to-nanoscale. Physica B: Condensed Matter, 2016, 481, 244-251.	1.3	15
140	Extended Irreversible Thermodynamics. , 1996, , 41-74.		15
141	Second-order coefficients for radiating fluids. Astrophysical Journal, 1985, 291, 447.	1.6	15
142	Fluctuations of Dissipative Fluxes and the Onsager-Machlup Function. Journal of Non-Equilibrium Thermodynamics, 1980, 5, .	2.4	14
143	On Non-Equilibrium Corrections to the Thermodynamic Variables in a Fluid under Shear. Journal of Non-Equilibrium Thermodynamics, 1982, 7, .	2.4	14
144	Generalized thermodynamic stability of systems under shear. Physics Letters, Section A: General, Atomic and Solid State Physics, 1983, 95, 23-26.	0.9	14

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145	On the thermodynamic curvature of nonequilibrium gases. <i>Journal of Chemical Physics</i> , 1985, 83, 4715-4716.	1.2	14
146	Extended thermodynamics of viscous phenomena in real gases. <i>Journal of Physics A</i> , 1987, 20, 6519-6529.	1.6	14
147	Extended kinetic theory. <i>Journal of Mathematical Physics</i> , 1993, 34, 2290-2316.	0.5	14
148	Thermal waves in an extended hydrodynamic approach. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 212, 369-381.	1.2	14
149	Equations of state of a dilute gas under a heat flux. <i>Physical Review E</i> , 1995, 52, 3490-3494.	0.8	14
150	Measurable temperatures in nonequilibrium radiative systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 248, 97-110.	1.2	14
151	Energy and temperature of superfluid turbulent vortex tangles. <i>Physical Review B</i> , 2007, 75, .	1.1	14
152	Caloric and entropic temperatures in non-equilibrium steady states. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 460, 246-253.	1.2	14
153	Heat flux rectification in graded SiGe <sup>1D</sup> : Longitudinal and radial heat flows. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 90, 149-157.	1.3	14
154	Relationships between rational extended thermodynamics and extended irreversible thermodynamics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190172.	1.6	14
155	Enhanced thermal rectification in graded Si Ge <sup>1D</sup> - alloys. <i>Mechanics Research Communications</i> , 2020, 103, 103472.	1.0	14
156	Generalized van der Waals equation for nonequilibrium fluids. <i>Physical Review A</i> , 1983, 28, 2541-2543.	1.0	13
157	The underlying thermodynamic aspects of generalized hydrodynamics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1985, 107, 17-20.	0.9	13
158	Effect of suspended sediment on the heating of Lake Banyoles. <i>Journal of Geophysical Research</i> , 1988, 93, 9332-9336.	3.3	13
159	Extended irreversible thermodynamics of heat conduction. <i>European Journal of Physics</i> , 1988, 9, 329-333.	0.3	13
160	Nonequilibrium equations of state and thermal waves. <i>Acta Physica Hungarica</i> , 1989, 66, 99-115.	0.1	13
161	A thermodynamic model for shear-induced concentration banding and macromolecular separation. <i>Polymer</i> , 2001, 42, 6239-6245.	1.8	13
162	Breaking of equipartition in one-dimensional heat-conducting systems. <i>Physical Review E</i> , 2001, 64, 052201.	0.8	13

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163	Non-equilibrium chemical potential and stress-induced migration of polymers in tubes. <i>Polymer</i> , 2002, 43, 1599-1605.	1.8	13
164	H theorem for telegrapher type kinetic equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992, 171, 26-30.	0.9	12
165	Nonequilibrium entropy and the second law of thermodynamics: A simple illustration. <i>International Journal of Thermophysics</i> , 1993, 14, 671-683.	1.0	12
166	Nonequilibrium Thermodynamics and the Degradation of Polymers under Shear Flow. <i>Journal of Non-Equilibrium Thermodynamics</i> , 1994, 19, .	2.4	12
167	Entropy Flux and Absolute Temperature in Extended Irreversible Thermodynamics. <i>Journal of Non-Equilibrium Thermodynamics</i> , 1995, 20, .	2.4	12
168	Informationâ€”theoretical analysis of a classical relativistic gas under a steady heat flow. <i>American Journal of Physics</i> , 1995, 63, 237-242.	0.3	12
169	Nonequilibrium temperature and fluctuationâ€”dissipation temperature in flowing gases. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 358, 49-57.	1.2	12
170	A Phenomenological Study of Pore-Size Dependent Thermal Conductivity of Porous Silicon. <i>Acta Applicandae Mathematicae</i> , 2012, 122, 435.	0.5	12
171	A nonlinear thermodynamic model for a breakdown of the Onsager symmetry and the efficiency of thermoelectric conversion in nanowires. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014, 470, 20140265.	1.0	12
172	Effective phonon mean-free path and slip heat flow in rarefied phonon hydrodynamics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 2652-2656.	0.9	12
173	Understanding of flux-limited behaviors of heat transport in nonlinear regime. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 452-457.	0.9	12
174	Macroscopic heat transport equations and heat waves in nonequilibrium states. <i>Physica D: Nonlinear Phenomena</i> , 2017, 342, 24-31.	1.3	12
175	Heat solitons and thermal transfer of information along thin wires. <i>International Journal of Heat and Mass Transfer</i> , 2020, 155, 119809.	2.5	12
176	Viscoelastic effects in cosmological expansion. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993, 175, 395-396.	0.9	11
177	Information theory and heat transport in relativistic gases. <i>Journal of Physics A</i> , 1995, 28, 1585-1592.	1.6	11
178	Superfluid turbulence in rotating containers: Phenomenological description of the influence of the wall. <i>Physical Review B</i> , 2005, 72, .	1.1	11
179	A mathematical model of counterflow superfluid turbulence describing heat waves and vortex-density waves. <i>Mathematical and Computer Modelling</i> , 2008, 48, 206-221.	2.0	11
180	Vortex dynamics in rotating counterflow and plane Couette and Poiseuille turbulence in superfluid helium. <i>Physical Review B</i> , 2008, 78, .	1.1	11

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181	A thermodynamical approach to continued fraction expansions for the shear viscosity. Physics Letters, Section A: General, Atomic and Solid State Physics, 1985, 107, 390-392.	0.9	10
182	Reply to "Comments on 'Possible experiment to check the reality of a nonequilibrium temperature'". Physical Review E, 1993, 48, 3201-3202.	0.8	10
183	Nonequilibrium Generalization of Chemical Potential of Flowing Fluids. Journal of Physical Chemistry B, 1998, 102, 5335-5340.	1.2	10
184	Alternative Vinen equation and its extension to rotating counterflow superfluid turbulence. Physica B: Condensed Matter, 2008, 403, 2215-2224.	1.3	10
185	Robustness of the nonequilibrium entropy related to the Maxwell-Cattaneo heat equation. Physical Review E, 2008, 77, 031110.	0.8	10
186	Nonlinear heat waves and some analogies with nonlinear optics. International Journal of Heat and Mass Transfer, 2020, 156, 119888.	2.5	10
187	Equilibrium Third Moments and Non-Equilibrium Second Moments of Fluctuations of Hydrodynamic Dissipative Fluxes. Journal of Non-Equilibrium Thermodynamics, 1983, 8, .	2.4	9
188	Nonequilibrium thermodynamics and continued fraction expansions of transport coefficients. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 134, 400-404.	0.9	9
189	Extended thermodynamics and the nonequilibrium Einstein relation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 168, 375-377.	0.9	9
190	Temperature and measurement: comparison between two models of nonequilibrium radiation. Physica A: Statistical Mechanics and Its Applications, 1999, 269, 439-454.	1.2	9
191	ENERGY TRANSPORT IN A MESOSCOPIC THERMO-HYDRODYNAMICS. International Journal of Modern Physics B, 2001, 15, 4211-4222.	1.0	9
192	Nonlocal effects in superfluid turbulence: Application to the low-density- to high-density-state transition and to vortex decay. Physical Review B, 2005, 71, .	1.1	9
193	Vortex density waves and high-frequency second sound in superfluid turbulence hydrodynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 368, 7-12.	0.9	9
194	Non-equilibrium temperature of well-developed quantum turbulence. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 2306-2310.	0.9	9
195	Vortex length, vortex energy and fractal dimension of superfluid turbulence at very low temperature. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 205501.	0.7	9
196	Dynamical temperature and renormalized flux variable in extended thermodynamics of rigid heat conductors. Journal of Non-Equilibrium Thermodynamics, 2011, 36, .	2.4	9
197	Heat transport in bulk/nanoporous/bulk silicon devices. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 486-490.	0.9	9
198	Vortex diffusion and vortex-line hysteresis in radial quantum turbulence. Physica B: Condensed Matter, 2014, 440, 99-103.	1.3	9

#	ARTICLE	IF	CITATIONS
199	Coarse-graining for fast dynamics of order parameters in the phase-field model. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170203.	1.6	9
200	Tunable heat rectification by applied mechanical stress. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126905.	0.9	9
201	An extended thermodynamic approach for the longitudinal velocity correlation function. Physica A: Statistical Mechanics and Its Applications, 1986, 135, 251-260.	1.2	8
202	Polymer solutions and chemical reactions under flow: A thermodynamic description. Journal of Chemical Physics, 1993, 98, 7434-7439.	1.2	8
203	Information theory and thermodynamics of polymer solutions under flow. Physica A: Statistical Mechanics and Its Applications, 1999, 262, 69-75.	1.2	8
204	On the Ginzburg-Landau expression for the free energy of solutions under flow. Physica A: Statistical Mechanics and Its Applications, 1999, 274, 466-475.	1.2	8
205	Bibliometric Analysis of Physics in Catalonia: Towards Quality Consolidation?. Scientometrics, 2000, 49, 233-256.	1.6	8
206	Thermodynamics of dilute gases in shear flow. Physica A: Statistical Mechanics and Its Applications, 2001, 292, 75-86.	1.2	8
207	Nonequilibrium effective temperature of superfluid vortex tangle. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 359, 183-186.	0.9	8
208	Thermodynamic considerations on thermostats and Maxwell relations in steady sheared fluids. Continuum Mechanics and Thermodynamics, 2012, 24, 37-48.	1.4	8
209	Thermodynamic approach to vortex production and diffusion in inhomogeneous superfluid turbulence. Physica A: Statistical Mechanics and Its Applications, 2014, 406, 272-280.	1.2	8
210	Non-Equilibrium Dislocation Dynamics in Semiconductor Crystals and Superlattices. Journal of Non-Equilibrium Thermodynamics, 2018, 43, 163-170.	2.4	8
211	Nonlinear Heat Transport in Superlattices with Mobile Defects. Entropy, 2019, 21, 1200.	1.1	8
212	About the relativistic temperature gradient. Physics Letters, Section A: General, Atomic and Solid State Physics, 1980, 78, 317-318.	0.9	7
213	Thermodynamic Description of Ultrasonic Attenuation in Metals. Journal of Non-Equilibrium Thermodynamics, 1982, 7, .	2.4	7
214	On the nonequilibrium chemical potential of open pores in a membrane. Journal of Chemical Physics, 1986, 85, 5314-5316.	1.2	7
215	Fluctuation theory and extended irreversible thermodynamics. Physica A: Statistical Mechanics and Its Applications, 1989, 155, 221-231.	1.2	7
216	Extended thermodynamics and the Jeffrey's constitutive equation. Rheologica Acta, 1991, 30, 226-229.	1.1	7

#	ARTICLE	IF	CITATIONS
217	Comparison of two thermodynamic nonlinearities in thermal conductivity in strong electric fields. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993, 173, 421-423.	0.9	7
218	Radiation Hydrodynamics and Thermodynamics. <i>Journal of Non-Equilibrium Thermodynamics</i> , 1998, 23, .	2.4	7
219	Non-equilibrium thermodynamic potential and flux fluctuation theorem. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 3301-3303.	0.9	7
220	Mesoscopic description of boundary effects in nanoscale heat transport. <i>The Nanoscale Systems: Mathematical Modeling and Applications</i> , 2012, 1, 112-142.	0.3	7
221	Contribution of the normal component to the thermal resistance of turbulent liquid helium. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2015, 66, 1853-1870.	0.7	7
222	Extended Reversible and Irreversible Thermodynamics: A Hamiltonian Approach with Application to Heat Waves. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2017, 42, 153-168.	2.4	7
223	Heat-flux dependence of the speed of nonlinear heat waves: Analogies with the Kerr effect in nonlinear optics. <i>International Journal of Thermal Sciences</i> , 2021, 161, 106719.	2.6	7
224	On the definition of non-equilibrium entropy. <i>Journal of Physics A</i> , 1982, 15, L565-L567.	1.6	6
225	Bacterial flagellar rotation as a nonequilibrium phase transition. <i>Journal of Theoretical Biology</i> , 1986, 122, 453-458.	0.8	6
226	Linear Burnett coefficients and thermodynamic fluctuations in extended irreversible thermodynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1986, 137, 349-358.	1.2	6
227	On the extended thermodynamics of dilute dumbbell solutions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990, 144, 71-74.	0.9	6
228	On the Spinodal Line of Polymer Solutions Under Shear. <i>Journal of Non-Equilibrium Thermodynamics</i> , 1993, 18, .	2.4	6
229	Nonlinear transport coefficients and fluctuation-dissipation theorem. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995, 203, 129-132.	0.9	6
230	Recent Bibliography On Extended Irreversible Thermodynamics and Related Topics (1992-1995). <i>Journal of Non-Equilibrium Thermodynamics</i> , 1996, 21, .	2.4	6
231	A generalized Einstein relation for flux-limited diffusion. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 253, 205-210.	1.2	6
232	A generalized Gibbs equation for nuclear matter out of equilibrium. <i>Physical Review C</i> , 1998, 57, 2068-2070.	1.1	6
233	Propagation of temperature waves along core-shell nanowires. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2010, 35, .	2.4	6
234	Duality-invariant Einstein-Planck relation and the speed of light at very short wavelengths. <i>Physical Review D</i> , 2011, 84, .	1.6	6

#	ARTICLE	IF	CITATIONS
235	A nonlinear viscoelastic model and non-equilibrium entropies. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 229, 96-100.	1.0	6
236	Gradient-dependent heat rectification in thermoelastic solids. <i>Journal of Thermal Stresses</i> , 2021, 44, 919-934.	1.1	6
237	Lagrange Multipliers in Extended Irreversible Thermodynamics and in Informational Statistical Thermodynamics. <i>Brazilian Journal of Physics</i> , 1997, 27, 547-559.	0.7	6
238	On the relations between large-scale models of superfluid helium-4. <i>Physics of Fluids</i> , 2021, 33, .	1.6	6
239	On the nonequilibrium thermodynamics of dilute suspensions. <i>Journal of Chemical Physics</i> , 1988, 89, 1651-1655.	1.2	5
240	On the non-equilibrium thermodynamics of some complex dynamical behaviours. <i>Journal of Physics A</i> , 1990, 23, 4603-4617.	1.6	5
241	Entropy Flux and Lagrange Multipliers: Information Theory and Thermodynamics. <i>Open Systems and Information Dynamics</i> , 1998, 5, 319-331.	0.5	5
242	Thermodynamics of nonequilibrium radiation. (I) General theory. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 300, 386-402.	1.2	5
243	Shear-induced shift of spinodal line in entangled polymer blends. <i>Physical Review E</i> , 2002, 66, 061803.	0.8	5
244	Ensemble averaging in turbulence modelling. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 330, 54-64.	0.9	5
245	About some current frontiers of the second law. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2004, 29, .	2.4	5
246	Temperature in ideal gas mixtures in Couette flow: A maximum-entropy approach. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 2172-2175.	0.9	5
247	Energy of string loops and thermodynamics of dark energy. <i>Physical Review D</i> , 2011, 83, .	1.6	5
248	Duality relation between radiation thermodynamics and cosmic string loop thermodynamics. <i>Physical Review D</i> , 2011, 83, .	1.6	5
249	Refrigeration of an array of cylindrical nanosystems by superfluid helium counterflow. <i>International Journal of Heat and Mass Transfer</i> , 2017, 104, 584-594.	2.5	5
250	Nonlinear Propagation of Coupled First- and Second-Sound Waves in Thermoelastic Solids. <i>Journal of Elasticity</i> , 2020, 138, 93-109.	0.9	5
251	Variational solutions for some steady and non-steady laminar viscous flows with stagnation points. <i>Flow, Turbulence and Combustion</i> , 1976, 32, 371-379.	0.2	4
252	On heat fluctuations near a critical point. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1980, 75, 469-470.	0.9	4

#	ARTICLE	IF	CITATIONS
253	Extended irreversible thermodynamics and runaway electrons in plasmas. Journal of Physics A, 1988, 21, L1039-L1042.	1.6	4
254	On the convexity of a nonequilibrium entropy and shock waves. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 141, 165-168.	0.9	4
255	Legendre transform in the thermodynamics of flowing polymer solutions. Physical Review E, 2001, 63, 057101.	0.8	4
256	Viscous pressure behaviour in shear-induced concentration banding. Polymer, 2003, 44, 6965-6971.	1.8	4
257	Steady Flow cosmological model. Astrophysics and Space Science, 2013, 344, 513-520.	0.5	4
258	A simple model of porous media with elastic deformations and erosion or deposition. Zeitschrift Fur Angewandte Mathematik Und Physik, 2020, 71, 1.	0.7	4
259	Thermal solitons along wires with flux-limited lateral exchange. Journal of Mathematical Physics, 2021, 62, .	0.5	4
260	Thermal Effects in Laminar, Incompressible, Viscous and Unsteady Plane Stagnation Flows. Journal of Non-Equilibrium Thermodynamics, 1979, 4, .	2.4	3
261	Legendre transforms in nonequilibrium thermodynamics: an illustration in electrical systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 283, 163-167.	0.9	3
262	Comparison of three thermodynamic descriptions of nonlocal effects in viscoelasticity. Physica A: Statistical Mechanics and Its Applications, 2002, 311, 353-360.	1.2	3
263	Statistical physics and fluctuations in ballistic non-equilibrium systems. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 2367-2372.	1.2	3
264	A DUALITY-INVARIANT EINSTEIN-PLANCK RELATION AND ITS CONSEQUENCES ON MICRO BLACK HOLES. International Journal of Modern Physics D, 2014, 23, 1450018.	0.9	3
265	Refrigeration of an Array of Cylindrical Nanosystems by Flowing Superfluid Helium. Journal of Low Temperature Physics, 2017, 187, 602-610.	0.6	3
266	Nonlinear thermoelastic waves in functionally graded materials: Application to Si <sup>1</sup> cGec nanowires. Journal of Thermal Stresses, 2020, 43, 612-628.	1.1	3
267	Extended Irreversible Thermodynamics: Evolution Equations. , 2001, , 39-72.		3
268	Non-Linear Heat Transport Effects in Systems with Defects. Journal of Non-Equilibrium Thermodynamics, 2022, 47, 179-186.	2.4	3
269	A Fokker-Planck equation for the fluctuations of the heat flux. Journal of Physics A, 1980, 13, L175-L177.	1.6	2
270	Heat and Electric Fluctuations. A Relativistic Approach. Journal of Non-Equilibrium Thermodynamics, 1981, 6, .	2.4	2



#	ARTICLE	IF	CITATIONS
271	Linear irreversible thermodynamics and the phenomenological theory of liquid helium. II. Journal of Physics C: Solid State Physics, 1983, 16, L199-L204.	1.5	2
272	Shear-induced shift of the critical point in diluted and entangled polymer solutions. Physica A: Statistical Mechanics and Its Applications, 2002, 309, 1-14.	1.2	2
273	Non-equilibrium chemical potential and polymer extraction from a porous matrix. Polymer, 2005, 46, 10372-10377.	1.8	2
274	Extended entropy and irreversible thermodynamics of a Lorentz diffusive gas. Physica A: Statistical Mechanics and Its Applications, 2007, 377, 79-83.	1.2	2
275	Spectral energy distribution and generalized Wien's law for photons and cosmic string loops. Physica Scripta, 2014, 89, 075002.	1.2	2
276	Continued-Fraction Expansion of Transport Coefficients with Fractional Calculus. Mathematics, 2016, 4, 67.	1.1	2
277	Focalization of Heat Waves in an Inhomogeneous System. Journal of Non-Equilibrium Thermodynamics, 2019, 44, 303-313.	2.4	2
278	Entrance, slip, and turbulent effects in heat transport in superfluid helium across a thin layer. Zeitschrift Fur Angewandte Mathematik Und Physik, 2020, 71, 1.	0.7	2
279	A Nonlinear Viscoelastic Model for the Yielding of Gelled Waxy Crude Oil. Energies, 2021, 14, 536.	1.6	2
280	Electric field dependence of thermal conductivity in bulk systems and nanosystems with charged mobile defects. Journal of Mathematical Physics, 2022, 63, .	0.5	2
281	Hydrodynamic fluctuations near the Rayleigh-Benard instability. , 1982, , 138-159.		1
282	An approach to extended irreversible thermodynamics II. Fluctuation theory. , 1984, , 105-123.		1
283	Fourth-order terms in nonequilibrium thermodynamic potentials. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 159, 307-310.	0.9	1
284	Extended irreversible thermodynamics versus rheology. , 1991, , 257-277.		1
285	Thermodynamics of nonequilibrium radiation. (II) Irreversible evolution and experimental setup. Physica A: Statistical Mechanics and Its Applications, 2001, 300, 403-416.	1.2	1
286	Extended thermodynamics of polymers and superfluids. Journal of Non-Newtonian Fluid Mechanics, 2008, 152, 36-44.	1.0	1
287	Temperature, entropy and second law beyond local equilibrium: An illustration. , 2011, , .		1
288	Heat Transport Equations with Phonons and Electrons. Acta Applicandae Mathematicae, 2012, 122, 117.	0.5	1

#	ARTICLE	IF	CITATIONS
289	Mesoscopic hydrothermodynamics of complex-structured materials. <i>Physical Review E</i> , 2013, 88, 042110.	0.8	1
290	Three Duality Symmetries between Photons and Cosmic String Loops, and Macro and Micro Black Holes. <i>Symmetry</i> , 2015, 7, 2134-2149.	1.1	1
291	Thermal duality and thermodynamics of micro black holes. <i>International Journal of Modern Physics D</i> , 2015, 24, 1550087.	0.9	1
292	Linear and Nonlinear Heat-Transport Equations. <i>SEMA SIMAI Springer Series</i> , 2016, , 31-51.	0.4	1
293	Second sound near lambda transition in presence of quantum vortices. <i>Ricerche Di Matematica</i> , 2019, 68, 315-331.	0.6	1
294	Thermodynamics of computation and linear stability limits of superfluid refrigeration of a model computing array. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2019, 70, 1.	0.7	1
295	When theories and experiments meet: Rarefied gases as a benchmark of non-equilibrium thermodynamic models. <i>International Journal of Engineering Science</i> , 2021, 169, 103574.	2.7	1
296	Hyperbolic Heat Conduction. , 2001, , 225-252.		1
297	Extended Irreversible Thermodynamics. , 1993, , 41-66.		1
298	Extended Irreversible Thermodynamics: Non-equilibrium Equations of State. , 2001, , 73-92.		1
299	Mesoscopic Description of Boundary Effects and Effective Thermal Conductivity in Nanosystems: Phonon Hydrodynamics. <i>SEMA SIMAI Springer Series</i> , 2016, , 53-89.	0.4	1
300	Nonlinear Thermal Transport with Inertia in Thin Wires: Thermal Fronts and Steady States. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2022, 47, 187-194.	2.4	1
301	Response to "Comment on "On the relations between large-scale models of superfluid helium-4". [Phys. Fluids >34</b>, 069101 (2022)]. <i>Physics of Fluids</i> , 2022, 34, 069102.	1.6	1
302	Variational solutions for the two-stream mixing of power-law fluids. <i>Flow, Turbulence and Combustion</i> , 1979, 35, 393-407.	0.2	0
303	Extended irreversible thermodynamics: Evolution and fluctuations of dissipative fluxes. , 1980, , 352-358.		0
304	Non-local thermodynamic effects and efficiency of oxidative phosphorylation. <i>Journal of Theoretical Biology</i> , 1985, 115, 153-160.	0.8	0
305	Highlight: 8th Joint European Thermodynamics Conference. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2004, 29, .	2.4	0
306	A non-equilibrium thermodynamic instability in shear-induced diffusion in polymer solutions. <i>European Physical Journal: Special Topics</i> , 2007, 146, 13-20.	1.2	0

#	ARTICLE	IF	CITATIONS
307	Generalized Transport Equations and Extended Irreversible Thermodynamics. , 2008, , .		0
308	Discussion on "Frontiers of the Second Law", 2008, , .		0
309	Phenomenological description of sedimentation in turbulent vortex tangles. Physical Review B, 2008, 77, .	1.1	0
310	Heat Transport in Micro- and Nano-systems. , 2010, , 233-252.		0
311	Extended Irreversible Thermodynamics: Non-equilibrium Equations of State. , 2010, , 71-89.		0
312	Fluctuation Theory. , 2010, , 123-142.		0
313	Hyperbolic Heat Transport in Rigid Conductors. , 2010, , 199-231.		0
314	Waves in Fluids: Sound, Ultrasound, and Shock Waves. , 2010, , 253-273.		0
315	Non-classical Diffusion, Thermo-diffusion and Suspensions. , 2010, , 291-325.		0
316	From Thermoelastic Solids to Rheological Materials. , 2010, , 347-381.		0
317	Relativistic Formulation. , 2010, , 407-421.		0
318	Viscous Cosmological Models and Cosmological Horizons. , 2010, , 423-438.		0
319	Hydrodynamical Models of Superfluid Turbulence. , 2011, , .		0
320	Effective temperature and scaling laws of polarized quantum vortex bundles. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3664-3667.	0.9	0
321	Nonequilibrium Thermodynamics and Heat Transport at Nanoscale. SEMA SIMAI Springer Series, 2016, , 1-30.	0.4	0
322	Non-Equilibrium Temperature and Reference Equilibrium Values of Hidden and Internal Variables. Advanced Structured Materials, 2018, , 439-450.	0.3	0
323	Nonlocal Transport Equations for Small Systems and Fast Processes. , 2018, , 1-10.		0
324	K- $\mu$ -L model in turbulent superfluid helium. Physica A: Statistical Mechanics and Its Applications, 2020, 548, 123885.	1.2	0

#	ARTICLE	IF	CITATIONS
325	Waves in Fluids. , 2001, , 253-276.		0
326	Comparison of Thermodynamical and Dynamical Approaches. , 2001, , 133-150.		0
327	Thermodynamics of Polymer Solutions Under Shear Flow. , 2001, , 373-398.		0
328	Non-equilibrium Thermodynamics and Rheology. , 2001, , 1-34.		0
329	Ideal Gases. , 2001, , 35-60.		0
330	Non-equilibrium Chemical Potential and Shear-Induced Effects. , 2001, , 103-132.		0
331	Fluctuation Theory. , 2001, , 145-164.		0
332	Rheological Materials. , 2001, , 339-372.		0
333	Computer Simulations. , 2001, , 207-222.		0
334	Non-classical Diffusion. , 2001, , 295-316.		0
335	Polymeric Solutions. , 2001, , 83-102.		0
336	Generalised Hydrodynamics. , 2001, , 277-294.		0
337	The Kinetic Theory of Gases. , 2001, , 113-144.		0
338	Chemical Reactions and Polymer Degradation Under Flow. , 2001, , 177-196.		0
339	Hamiltonian Formulations. , 2001, , 93-110.		0
340	Electrical Systems. , 2001, , 317-338.		0
341	Non-ideal Fluids. , 2001, , 61-82.		0
342	Linear Response Theory. , 2001, , 191-206.		0

#	ARTICLE	IF	CITATIONS
343	Relativistic Formulation. , 2001, , 399-414.		0
344	Hydrodynamic Equations of Anisotropic, Polarized, Turbulent Superfluids. , 2009, , .		0
345	The Kinetic Theory of Gases. , 1993, , 69-93.		0
346	Generalized Hydrodynamics and Computer Simulations. , 1993, , 227-245.		0
347	Rheological Materials. , 1993, , 167-201.		0
348	Non-equilibrium Statistical Mechanics. , 1993, , 113-136.		0
349	Multicomponent Systems. , 1993, , 247-276.		0
350	Hyperbolic Heat Conduction. , 1993, , 139-165.		0
351	Waves in Fluids. , 1993, , 203-225.		0
352	Fluctuation Theory. , 1993, , 95-112.		0
353	Hyperbolic Heat Conduction. , 1996, , 167-202.		0
354	Non-classical Diffusion and Electrical Conduction. , 1996, , 287-320.		0
355	The Kinetic Theory of Gases. , 1996, , 77-110.		0
356	Generalized Hydrodynamics and Computer Simulations. , 1996, , 265-286.		0
357	Relativistic Formulation and Cosmological Applications. , 1996, , 345-372.		0
358	Rheological Materials. , 1996, , 203-240.		0
359	Non-equilibrium Statistical Mechanics. , 1996, , 131-164.		0
360	Fluctuation Theory. , 1996, , 111-130.		0

#	ARTICLE	IF	CITATIONS
361	Heat Transport with Phonons and Electrons and Efficiency of Thermoelectric Generators. SEMA SIMAI Springer Series, 2016, , 133-166.	0.4	0
362	Weakly Nonlocal and Nonlinear Heat Transport. SEMA SIMAI Springer Series, 2016, , 109-132.	0.4	0
363	Heat rectification in He II counterflow in radial geometries. Communications in Applied and Industrial Mathematics, 2018, 9, 141-148.	0.6	0
364	Nonlocal Transport Equations for Small Systems and Fast Processes. , 2020, , 1-10.		0
365	Nonlocal Transport Equations for Small Systems and Fast Processes. , 2020, , 1903-1912.		0
366	Extended Irreversible Thermodynamics: Statements and Prospects. , 1996, , 37-54.		0
367	Coupling of heat flux and vortex polarization in superfluid helium. Journal of Mathematical Physics, 2020, 61, 113101.	0.5	0