

David Jou

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8967515/publications.pdf>

Version: 2024-02-01

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	Non-Linear Heat Transport Effects in Systems with Defects. Journal of Non-Equilibrium Thermodynamics, 2022, 47, 179-186.	2.4	3
2	Nonlinear Thermal Transport with Inertia in Thin Wires: Thermal Fronts and Steady States. Journal of Non-Equilibrium Thermodynamics, 2022, 47, 187-194.	2.4	1
3	Electric field dependence of thermal conductivity in bulk systems and nanosystems with charged mobile defects. Journal of Mathematical Physics, 2022, 63, .	0.5	2
4	Response to "Comment on "On the relations between large-scale models of superfluid helium-4" [Phys. Fluids >34, 069101 (2022)]. Physics of Fluids, 2022, 34, 069102.	1.6	1
5	Heat-flux dependence of the speed of nonlinear heat waves: Analogies with the Kerr effect in nonlinear optics. International Journal of Thermal Sciences, 2021, 161, 106719.	2.6	7
6	A Nonlinear Viscoelastic Model for the Yielding of Gelled Waxy Crude Oil. Energies, 2021, 14, 536.	1.6	2
7	Gradient-dependent heat rectification in thermoelastic solids. Journal of Thermal Stresses, 2021, 44, 919-934.	1.1	6
8	Thermal solitons along wires with flux-limited lateral exchange. Journal of Mathematical Physics, 2021, 62, .	0.5	4
9	When theories and experiments meet: Rarefied gases as a benchmark of non-equilibrium thermodynamic models. International Journal of Engineering Science, 2021, 169, 103574.	2.7	1
10	On the relations between large-scale models of superfluid helium-4. Physics of Fluids, 2021, 33, .	1.6	6
11	Nonlinear Propagation of Coupled First- and Second-Sound Waves in Thermoelastic Solids. Journal of Elasticity, 2020, 138, 93-109.	0.9	5
12	K-̄u-L model in turbulent superfluid helium. Physica A: Statistical Mechanics and Its Applications, 2020, 548, 123885.	1.2	0
13	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
14	Tunable heat rectification by applied mechanical stress. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126905.	0.9	9
15	Nonlinear heat waves and some analogies with nonlinear optics. International Journal of Heat and Mass Transfer, 2020, 156, 119888.	2.5	10
16	Relationships between rational extended thermodynamics and extended irreversible thermodynamics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190172.	1.6	14
17	Nonlinear thermoelastic waves in functionally graded materials: Application to Si1~cGec nanowires. Journal of Thermal Stresses, 2020, 43, 612-628.	1.1	3
18	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

#	ARTICLE	IF	CITATIONS
19	Enhanced thermal rectification in graded Si Ge _{1-x} alloys. <i>Mechanics Research Communications</i> , 2020, 103, 103472.	1.0	14
20	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
21	Nonlocal Transport Equations for Small Systems and Fast Processes. , 2020, , 1-10.		0
22	Nonlocal Transport Equations for Small Systems and Fast Processes. , 2020, , 1903-1912.		0
23	Coupling of heat flux and vortex polarization in superfluid helium. <i>Journal of Mathematical Physics</i> , 2020, 61, 113101.	0.5	0
24	Second sound near lambda transition in presence of quantum vortices. <i>Ricerche Di Matematica</i> , 2019, 68, 315-331.	0.6	1
25	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
26	Focalization of Heat Waves in an Inhomogeneous System. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2019, 44, 303-313.	2.4	2
27	Rapid solidification as non-ergodic phenomenon. <i>Physics Reports</i> , 2019, 818, 1-70.	10.3	83
28	The bioelements, the elementome, and the biogeochemical niche. <i>Ecology</i> , 2019, 100, e02652.	1.5	139
29	Nonlinear Heat Transport in Superlattices with Mobile Defects. <i>Entropy</i> , 2019, 21, 1200.	1.1	8
30	Coarse-graining for fast dynamics of order parameters in the phase-field model. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170203.	1.6	9
31	Non-Equilibrium Temperature and Reference Equilibrium Values of Hidden and Internal Variables. <i>Advanced Structured Materials</i> , 2018, , 439-450.	0.3	0
32	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
33	Nonlocal Transport Equations for Small Systems and Fast Processes. , 2018, , 1-10.		0
34	Nonequilibrium thermodynamics of phonon hydrodynamic model for nanoscale heat transport. <i>Physical Review B</i> , 2018, 98, .	1.1	23
35	Non-Equilibrium Dislocation Dynamics in Semiconductor Crystals and Superlattices. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2018, 43, 163-170.	2.4	8
36	Heat rectification in He II counterflow in radial geometries. <i>Communications in Applied and Industrial Mathematics</i> , 2018, 9, 141-148.	0.6	0

#	ARTICLE	IF	CITATIONS
37	Macroscopic heat transport equations and heat waves in nonequilibrium states. <i>Physica D: Nonlinear Phenomena</i> , 2017, 342, 24-31.	1.3	12
38	Refrigeration of an Array of Cylindrical Nanosystems by Flowing Superfluid Helium. <i>Journal of Low Temperature Physics</i> , 2017, 187, 602-610.	0.6	3
39	A simple model of thermoelastic heat switches and heat transistors. <i>Journal of Applied Physics</i> , 2017, 121, 024503.	1.1	16
40	Heat flux rectification in graded SiGe \hat{c} : Longitudinal and radial heat flows. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 90, 149-157.	1.3	14
41	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
42	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
43	Continued-Fraction Expansion of Transport Coefficients with Fractional Calculus. <i>Mathematics</i> , 2016, 4, 67.	1.1	2
44	Rectification of low-frequency thermal waves in graded SiGe \hat{c} . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 1824-1829.	0.9	19
45	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
46	Thermal rectifier efficiency of various bulk \hat{c} nanoporous silicon devices. <i>International Journal of Heat and Mass Transfer</i> , 2016, 97, 603-610.	2.5	22
47	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
48	A nonlinear viscoelastic model and non-equilibrium entropies. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 229, 96-100.	1.0	6
49	Computational analysis of heat rectification in composition-graded systems: From macro-to-nanoscale. <i>Physica B: Condensed Matter</i> , 2016, 481, 244-251.	1.3	15
50	Linear and Nonlinear Heat-Transport Equations. <i>SEMA SIMAI Springer Series</i> , 2016, , 31-51.	0.4	1
51	Mesoscopic Theories of Heat Transport in Nanosystems. <i>SEMA SIMAI Springer Series</i> , 2016, , .	0.4	69
52	Nonequilibrium Thermodynamics and Heat Transport at Nanoscale. <i>SEMA SIMAI Springer Series</i> , 2016, , 1-30.	0.4	0
53	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
54	Heat Transport with Phonons and Electrons and Efficiency of Thermoelectric Generators. <i>SEMA SIMAI Springer Series</i> , 2016, , 133-166.	0.4	0

#	ARTICLE	IF	CITATIONS
55	Weakly Nonlocal and Nonlinear Heat Transport. SEMA SIMAI Springer Series, 2016, , 109-132.	0.4	0
56	Mesoscopic Description of Boundary Effects and Effective Thermal Conductivity in Nanosystems: Phonon Hydrodynamics. SEMA SIMAI Springer Series, 2016, , 53-89.	0.4	1
57	Three Duality Symmetries between Photons and Cosmic String Loops, and Macro and Micro Black Holes. Symmetry, 2015, 7, 2134-2149.	1.1	1
58	A thermodynamic model for heat transport and thermal wave propagation in graded systems. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 73, 242-249.	1.3	23
59	Early history of extended irreversible thermodynamics (1953â€“1983): An exploration beyond local equilibrium and classical transport theory. European Physical Journal H, 2015, 40, 205-240.	0.5	23
60	Contribution of the normal component to the thermal resistance of turbulent liquid helium. Zeitschrift Fur Angewandte Mathematik Und Physik, 2015, 66, 1853-1870.	0.7	7
61	Effective phonon mean-free path and slip heat flow in rarefied phonon hydrodynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2652-2656.	0.9	12
62	Two-dimensional phonon hydrodynamics in narrow strips. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20150376.	1.0	34
63	Thermal duality and thermodynamics of micro black holes. International Journal of Modern Physics D, 2015, 24, 1550087.	0.9	1
64	Effective thermal conductivity of helium II: from Landau to Gorterâ€™s Mellink regimes. Zeitschrift Fur Angewandte Mathematik Und Physik, 2015, 66, 1835-1851.	0.7	15
65	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
66	A DUALITY-INVARIANT EINSTEINâ€™S PLANCK RELATION AND ITS CONSEQUENCES ON MICRO BLACK HOLES. International Journal of Modern Physics D, 2014, 23, 1450018.	0.9	3
67	Entropy Principle and Recent Results in Non-Equilibrium Theories. Entropy, 2014, 16, 1756-1807.	1.1	93
68	A nonlinear thermodynamic model for a breakdown of the Onsager symmetry and the efficiency of thermoelectric conversion in nanowires. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140265.	1.0	12
69	Vortex diffusion and vortex-line hysteresis in radial quantum turbulence. Physica B: Condensed Matter, 2014, 440, 99-103.	1.3	9
70	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
71	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
72	Multi-temperature mixture of phonons and electrons and nonlocal thermoelectric transport in thin layers. International Journal of Heat and Mass Transfer, 2014, 71, 459-468.	2.5	23

#	ARTICLE	IF	CITATIONS
73	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
74	Spectral energy distribution and generalized Wien's law for photons and cosmic string loops. Physica Scripta, 2014, 89, 075002.	1.2	2
75	Entropy flux and anomalous axial heat transport at the nanoscale. Physical Review B, 2013, 87, .	1.1	32
76	Mesoscopic hydrothermodynamics of complex-structured materials. Physical Review E, 2013, 88, 042110.	0.8	1
77	Coarse graining for the phase-field model of fast phase transitions. Physical Review E, 2013, 88, 042151.	0.8	24
78	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
79	Thermoelectric effects and size dependency of the figure-of-merit in cylindrical nanowires. International Journal of Heat and Mass Transfer, 2013, 57, 109-116.	2.5	32
80	Steady Flow cosmological model. Astrophysics and Space Science, 2013, 344, 513-520.	0.5	4
81	Phonon temperature and electron temperature in thermoelectric coupling. Journal of Non-Equilibrium Thermodynamics, 2013, 38, .	2.4	20
82	Thermal rectification in inhomogeneous nanoporous Si devices. Journal of Applied Physics, 2013, 114, .	1.1	23
83	Non-local effects in radial heat transport in silicon thin layers and graphene sheets. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 1217-1229.	1.0	31
84	A Phenomenological Study of Pore-Size Dependent Thermal Conductivity of Porous Silicon. Acta Applicandae Mathematicae, 2012, 122, 435.	0.5	12
85	Heat Transport Equations with Phonons and Electrons. Acta Applicandae Mathematicae, 2012, 122, 117.	0.5	1
86	Mesoscopic description of boundary effects in nanoscale heat transport. The Nanoscale Systems: Mathematical Modeling and Applications, 2012, 1, 112-142.	0.3	7
87	Analysis of three nonlinear effects in a continuum approach to heat transport in nanosystems. Physica D: Nonlinear Phenomena, 2012, 241, 1344-1350.	1.3	31
88	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
89	Nonlocal heat transport with phonons and electrons: Application to metallic nanowires. International Journal of Heat and Mass Transfer, 2012, 55, 2338-2344.	2.5	46
90	Geometrical dependence of thermal conductivity in elliptical and rectangular nanowires. International Journal of Heat and Mass Transfer, 2012, 55, 3114-3120.	2.5	33

#	ARTICLE	IF	CITATIONS
91	Theoretical analysis of thermal rectification in a bulk Si/nanoporous Si device. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 1641-1644.	0.9	22
92	Thermodynamic considerations on thermostats and Maxwell relations in steady sheared fluids. Continuum Mechanics and Thermodynamics, 2012, 24, 37-48.	1.4	8
93	Duality-invariant Einstein-Planck relation and the speed of light at very short wavelengths. Physical Review D, 2011, 84, .	1.6	6
94	Heat waves and phonon-wall collisions in nanowires. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2011, 467, 2520-2533.	1.0	46
95	Energy of string loops and thermodynamics of dark energy. Physical Review D, 2011, 83, .	1.6	5
96	Solute trapping in rapid solidification of a binary dilute system: A phase-field study. Physical Review E, 2011, 84, 041143.	0.8	73
97	Phonon Boundary Effects and Thermal Conductivity of Rough Concentric Nanowires. Journal of Heat Transfer, 2011, 133, .	1.2	30
98	Temperature, entropy and second law beyond local equilibrium: An illustration. , 2011, , .		1
99	Mesoscopic transport equations and contemporary thermodynamics: an introduction. Contemporary Physics, 2011, 52, 465-474.	0.8	36
100	Hydrodynamical Models of Superfluid Turbulence. , 2011, , .		0
101	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
102	Hydrodynamic equations of anisotropic, polarized and inhomogeneous superfluid vortex tangles. Physica D: Nonlinear Phenomena, 2011, 240, 249-258.	1.3	30
103	Thermal conductivity of thin single-crystalline germanium-on-insulator structures. International Journal of Heat and Mass Transfer, 2011, 54, 1959-1962.	2.5	16
104	Duality relation between radiation thermodynamics and cosmic string loop thermodynamics. Physical Review D, 2011, 83, .	1.6	5
105	Phonon-wall interactions and frequency-dependent thermal conductivity in nanowires. Journal of Applied Physics, 2011, 109, .	1.1	26
106	Dynamical temperature and renormalized flux variable in extended thermodynamics of rigid heat conductors. Journal of Non-Equilibrium Thermodynamics, 2011, 36, .	2.4	9
107	Thermodynamics of Fluids Under Flow. , 2011, , .		37
108	Extended Irreversible Thermodynamics. , 2010, , .		344

#	ARTICLE	IF	CITATIONS
109	Temperature dependence of boundary conditions in phonon hydrodynamics of smooth and rough nanowires. Journal of Applied Physics, 2010, 107, .	1.1	53
110	Nonequilibrium temperatures, heat waves, and nonlinear heat transport equations. Physical Review B, 2010, 81, .	1.1	80
111	Boundary Conditions and Evolution of Ballistic Heat Transport. Journal of Heat Transfer, 2010, 132, .	1.2	27
112	Heat fluctuations and phonon hydrodynamics in nanowires. Journal of Applied Physics, 2010, 107, .	1.1	25
113	Analytical expression for thermal conductivity of superlattices. Journal of Applied Physics, 2010, 107, .	1.1	46
114	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
115	Propagation of temperature waves along core-shell nanowires. Journal of Non-Equilibrium Thermodynamics, 2010, 35, .	2.4	6
116	Variational principles for thermal transport in nanosystems with heat slip flow. Physical Review E, 2010, 82, 031128.	0.8	35
117	Pore-size dependence of the thermal conductivity of porous silicon: A phonon hydrodynamic approach. Applied Physics Letters, 2010, 97, .	1.5	115
118	Second law of thermodynamics and phonon-boundary conditions in nanowires. Journal of Applied Physics, 2010, 107, .	1.1	58
119	Heat Transport in Micro- and Nano-systems. , 2010, , 233-252.		0
120	Nonlinear evolution and stability of the heat flow in nanosystems: Beyond linear phonon hydrodynamics. Physical Review B, 2010, 82, .	1.1	63
121	Extended Irreversible Thermodynamics: Evolution Equations. , 2010, , 41-70.		54
122	Extended Irreversible Thermodynamics: Non-equilibrium Equations of State. , 2010, , 71-89.		0
123	Fluctuation Theory. , 2010, , 123-142.		0
124	Hyperbolic Heat Transport in Rigid Conductors. , 2010, , 199-231.		0
125	Waves in Fluids: Sound, Ultrasound, and Shock Waves. , 2010, , 253-273.		0
126	Non-classical Diffusion, Thermo-diffusion and Suspensions. , 2010, , 291-325.		0

#	ARTICLE	IF	CITATIONS
127	From Thermoelastic Solids to Rheological Materials. , 2010, , 347-381.		0
128	Relativistic Formulation. , 2010, , 407-421.		0
129	Viscous Cosmological Models and Cosmological Horizons. , 2010, , 423-438.		0
130	Statistical physics and fluctuations in ballistic non-equilibrium systems. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 2367-2372.	1.2	3
131	Kinetic contribution to the fast spinodal decomposition controlled by diffusion. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 3113-3123.	1.2	44
132	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
133	Non-equilibrium thermodynamic potential and flux fluctuation theorem. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 3301-3303.	0.9	7
134	Nonequilibrium temperatures and second-sound propagation along nanowires and thin layers. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 4386-4392.	0.9	37
135	Focusing of heat pulses along nonequilibrium nanowires. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 374, 313-318.	0.9	16
136	Phonon hydrodynamics and phonon-boundary scattering in nanosystems. Journal of Applied Physics, 2009, 105, .	1.1	125
137	Nonlocal effects and second sound in a nonequilibrium steady state. Physical Review B, 2009, 79, .	1.1	91
138	Hydrodynamic Equations of Anisotropic, Polarized, Turbulent Superfluids. , 2009, , .		0
139	Temperature in ideal gas mixtures in Couette flow: A maximum-entropy approach. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 2172-2175.	0.9	5
140	A mathematical model of counterflow superfluid turbulence describing heat waves and vortex-density waves. Mathematical and Computer Modelling, 2008, 48, 206-221.	2.0	11
141	Extended thermodynamics of polymers and superfluids. Journal of Non-Newtonian Fluid Mechanics, 2008, 152, 36-44.	1.0	1
142	Alternative Vinen equation and its extension to rotating counterflow superfluid turbulence. Physica B: Condensed Matter, 2008, 403, 2215-2224.	1.3	10
143	Understanding Non-equilibrium Thermodynamics. , 2008, , .		432
144	Extended irreversible thermodynamics of heat transport. A brief introduction. Proceedings of the Estonian Academy of Sciences, 2008, 57, 118.	0.9	18

#	ARTICLE	IF	CITATIONS
145	Generalized Transport Equations and Extended Irreversible Thermodynamics. , 2008, , .		0
146	Discussion on "Frontiers of the Second Law", 2008, , .		0
147	Cross-plane thermal conductivity reduction of vertically uncorrelated Ge ⁺ Si quantum dot superlattices. Applied Physics Letters, 2008, 93, .	1.5	24
148	Robustness of the nonequilibrium entropy related to the Maxwell-Cattaneo heat equation. Physical Review E, 2008, 77, 031110.	0.8	10
149	Phenomenological description of sedimentation in turbulent vortex tangles. Physical Review B, 2008, 77, .	1.1	0
150	Size and frequency dependence of effective thermal conductivity in nanosystems. Journal of Applied Physics, 2008, 103, .	1.1	71
151	Vortex dynamics in rotating counterflow and plane Couette and Poiseuille turbulence in superfluid helium. Physical Review B, 2008, 78, .	1.1	11
152	Energy and temperature of superfluid turbulent vortex tangles. Physical Review B, 2007, 75, .	1.1	14
153	Thermodynamical derivation of a hydrodynamical model of inhomogeneous superfluid turbulence. Physical Review B, 2007, 75, .	1.1	36
154	Memory and nonlocal effects in heat transport: From diffusive to ballistic regimes. Applied Physics Letters, 2007, 90, 083109.	1.5	163
155	Extended entropy and irreversible thermodynamics of a Lorentz diffusive gas. Physica A: Statistical Mechanics and Its Applications, 2007, 377, 79-83.	1.2	2
156	A non-equilibrium thermodynamic instability in shear-induced diffusion in polymer solutions. European Physical Journal: Special Topics, 2007, 146, 13-20.	1.2	0
157	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
158	Fluctuations and stochastic noise in systems with hyperbolic mass transport. Physica A: Statistical Mechanics and Its Applications, 2006, 366, 149-158.	1.2	20
159	Nonequilibrium kinetic temperatures in flowing gases. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 350, 339-341.	0.9	36
160	Nonequilibrium effective temperature of superfluid vortex tangle. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 359, 183-186.	0.9	8
161	Description and evolution of anisotropy in superfluid vortex tangles with counterflow and rotation. Physical Review B, 2006, 74, .	1.1	27
162	Non-equilibrium chemical potential and polymer extraction from a porous matrix. Polymer, 2005, 46, 10372-10377.	1.8	2

#	ARTICLE	IF	CITATIONS
163	Nonequilibrium temperature and fluctuation-dissipation temperature in flowing gases. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 358, 49-57.	1.2	12
164	A phenomenological scaling approach for heat transport in nano-systems. <i>Applied Mathematics Letters</i> , 2005, 18, 963-967.	1.5	52
165	Generalization of Vinen's equation including transition to superfluid turbulence. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 4423-4440.	0.7	18
166	Nonequilibrium thermodynamics of unsteady superfluid turbulence in counterflow and rotating situations. <i>Physical Review B</i> , 2005, 72, .	1.1	15
167	Nonlocal effects in superfluid turbulence: Application to the low-density- to high-density-state transition and to vortex decay. <i>Physical Review B</i> , 2005, 71, .	1.1	9
168	Superfluid turbulence in rotating containers: Phenomenological description of the influence of the wall. <i>Physical Review B</i> , 2005, 72, .	1.1	11
169	Diffuse-interface model for rapid phase transformations in nonequilibrium systems. <i>Physical Review E</i> , 2005, 71, 046125.	0.8	160
170	Phenomenological description of counterflow superfluid turbulence in rotating containers. <i>Physical Review B</i> , 2004, 69, .	1.1	25
171	Highlight: 8th Joint European Thermodynamics Conference. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2004, 29, .	2.4	0
172	Ensemble averaging in turbulence modelling. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 330, 54-64.	0.9	5
173	Entropy flux in non-equilibrium thermodynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 338, 445-457.	1.2	23
174	About some current frontiers of the second law. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2004, 29, .	2.4	5
175	Viscous pressure behaviour in shear-induced concentration banding. <i>Polymer</i> , 2003, 44, 6965-6971.	1.8	4
176	Temperature in non-equilibrium states: a review of open problems and current proposals. <i>Reports on Progress in Physics</i> , 2003, 66, 1937-2023.	8.1	384
177	Measuring nonequilibrium temperature of forced oscillators. <i>Physical Review E</i> , 2003, 67, 026121.	0.8	27
178	Shear-induced shift of spinodal line in entangled polymer blends. <i>Physical Review E</i> , 2002, 66, 061803.	0.8	5
179	Higher-order hydrodynamics: Extended Fick's Law, evolution equation, and Bobylev's instability. <i>Journal of Chemical Physics</i> , 2002, 116, 1571-1584.	1.2	16
180	Second sound, superfluid turbulence, and intermittent effects in liquid helium II. <i>Physical Review B</i> , 2002, 66, .	1.1	27

#	ARTICLE	IF	CITATIONS
181	Comparison of three thermodynamic descriptions of nonlocal effects in viscoelasticity. Physica A: Statistical Mechanics and Its Applications, 2002, 311, 353-360.	1.2	3
182	Non-equilibrium chemical potential and stress-induced migration of polymers in tubes. Polymer, 2002, 43, 1599-1605.	1.8	13
183	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
184	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
185	Extended irreversible thermodynamics and its relation with other continuum approaches. Journal of Non-Newtonian Fluid Mechanics, 2001, 96, 77-104.	1.0	28
186	Thermodynamics of dilute gases in shear flow. Physica A: Statistical Mechanics and Its Applications, 2001, 292, 75-86.	1.2	8
187	Thermodynamics of nonequilibrium radiation. (I) General theory. Physica A: Statistical Mechanics and Its Applications, 2001, 300, 386-402.	1.2	5
188	Thermodynamics of nonequilibrium radiation. (II) Irreversible evolution and experimental setup. Physica A: Statistical Mechanics and Its Applications, 2001, 300, 403-416.	1.2	1
189	A thermodynamic model for shear-induced concentration banding and macromolecular separation. Polymer, 2001, 42, 6239-6245.	1.8	13
190	ENERGY TRANSPORT IN A MESOSCOPIC THERMO-HYDRODYNAMICS. International Journal of Modern Physics B, 2001, 15, 4211-4222.	1.0	9
191	Breaking of equipartition in one-dimensional heat-conducting systems. Physical Review E, 2001, 64, 052201.	0.8	13
192	Legendre transform in the thermodynamics of flowing polymer solutions. Physical Review E, 2001, 63, 057101.	0.8	4
193	Extended Irreversible Thermodynamics. , 2001, , .		199
194	Hyperbolic Heat Conduction. , 2001, , 225-252.		1
195	Extended Irreversible Thermodynamics: Evolution Equations. , 2001, , 39-72.		3
196	Waves in Fluids. , 2001, , 253-276.		0
197	Comparison of Thermodynamical and Dynamical Approaches. , 2001, , 133-150.		0
198	Extended Irreversible Thermodynamics: Non-equilibrium Equations of State. , 2001, , 73-92.		1

#	ARTICLE	IF	CITATIONS
199	Thermodynamics of Polymer Solutions Under Shear Flow. , 2001, , 373-398.		0
200	Non-equilibrium Thermodynamics and Rheology. , 2001, , 1-34.		0
201	Ideal Gases. , 2001, , 35-60.		0
202	Non-equilibrium Chemical Potential and Shear-Induced Effects. , 2001, , 103-132.		0
203	Fluctuation Theory. , 2001, , 145-164.		0
204	Rheological Materials. , 2001, , 339-372.		0
205	Computer Simulations. , 2001, , 207-222.		0
206	Non-classical Diffusion. , 2001, , 295-316.		0
207	Polymeric Solutions. , 2001, , 83-102.		0
208	Generalised Hydrodynamics. , 2001, , 277-294.		0
209	The Kinetic Theory of Gases. , 2001, , 113-144.		0
210	Chemical Reactions and Polymer Degradation Under Flow. , 2001, , 177-196.		0
211	Hamiltonian Formulations. , 2001, , 93-110.		0
212	Electrical Systems. , 2001, , 317-338.		0
213	Non-ideal Fluids. , 2001, , 61-82.		0
214	Linear Response Theory. , 2001, , 191-206.		0
215	Relativistic Formulation. , 2001, , 399-414.		0
216	Shear induced polymer migration: analysis of the evolution of concentration profiles. Polymer, 2000, 41, 8425-8432.	1.8	16

#	ARTICLE	IF	CITATIONS
217	Nonequilibrium chemical potential and shear-induced migration of polymers in dilute solutions. <i>Polymer</i> , 2000, 41, 2633-2638.	1.8	17
218	Bibliometric Analysis of Physics in Catalonia: Towards Quality Consolidation?. <i>Scientometrics</i> , 2000, 49, 233-256.	1.6	8
219	Information theory and thermodynamics of polymer solutions under flow. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 262, 69-75.	1.2	8
220	Temperature and measurement: comparison between two models of nonequilibrium radiation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 269, 439-454.	1.2	9
221	On the Ginzburg-Landau expression for the free energy of solutions under flow. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 274, 466-475.	1.2	8
222	Extended irreversible thermodynamics revisited (1988-98). <i>Reports on Progress in Physics</i> , 1999, 62, 1035-1142.	8.1	229
223	Entropy Flux and Lagrange Multipliers: Information Theory and Thermodynamics. <i>Open Systems and Information Dynamics</i> , 1998, 5, 319-331.	0.5	5
224	A generalized Einstein relation for flux-limited diffusion. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 253, 205-210.	1.2	6
225	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
226	Measurable temperatures in nonequilibrium radiative systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 248, 97-110.	1.2	14
227	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
228	Nonequilibrium Generalization of Chemical Potential of Flowing Fluids. <i>Journal of Physical Chemistry B</i> , 1998, 102, 5335-5340.	1.2	10
229	Nonlinear and Hamiltonian extended irreversible thermodynamics. <i>Journal of Chemical Physics</i> , 1998, 108, 7937-7945.	1.2	25
230	Evolution of dissipative processes via a statistical thermodynamic approach. I. Generalized Mori-Heisenberg-Langevin equations. <i>Journal of Chemical Physics</i> , 1998, 108, 7568-7579.	1.2	34
231	Evolution of dissipative processes via a statistical thermodynamic approach. II. Thermodynamic properties of a fluid of bosons. <i>Journal of Chemical Physics</i> , 1998, 108, 7580-7586.	1.2	20
232	A generalized Gibbs equation for nuclear matter out of equilibrium. <i>Physical Review C</i> , 1998, 57, 2068-2070.	1.1	6
233	Weakly Nonlocal And Nonlinear Heat Transport In Rigid Solids. <i>Journal of Non-Equilibrium Thermodynamics</i> , 1998, 23, .	2.4	46
234	Radiation Hydrodynamics and Thermodynamics. <i>Journal of Non-Equilibrium Thermodynamics</i> , 1998, 23, .	2.4	7

#	ARTICLE	IF	CITATIONS
235	Recent Bibliography on Extended Irreversible Thermodynamics and Related Topics (1995â€”1998). Journal of Non-Equilibrium Thermodynamics, 1998, 23, .	2.4	16
236	Anomalous diffusion in linear shear flows. Journal of Physics A, 1997, 30, 1023-1030.	1.6	50
237	Hydrodynamic fluctuations, nonequilibrium equations of state, and the shift of the spinodal line in polymer solutions under flow. Physical Review E, 1997, 56, 1887-1890.	0.8	23
238	Thermodynamic variables in the context of a nonequilibrium statistical ensemble approach. Journal of Chemical Physics, 1997, 107, 7383-7396.	1.2	49
239	Characterization and measurement of a nonequilibrium temperature-like variable in irreversible thermodynamics. Physica A: Statistical Mechanics and Its Applications, 1997, 234, 699-714.	1.2	44
240	Lagrange Multipliers in Extended Irreversible Thermodynamics and in Informational Statistical Thermodynamics. Brazilian Journal of Physics, 1997, 27, 547-559.	0.7	6
241	Non-equilibrium thermodynamics and anomalous diffusion. Journal of Physics A, 1996, 29, 4321-4329.	1.6	150
242	Thermodynamics of ideal gases under shear: a maximum-entropy approach. Physica A: Statistical Mechanics and Its Applications, 1996, 233, 163-174.	1.2	18
243	Recent Bibliography On Extended Irreversible Thermodynamics and Related Topics (1992-1995). Journal of Non-Equilibrium Thermodynamics, 1996, 21, .	2.4	6
244	Foundations and applications of a mesoscopic thermodynamic theory of fast phenomena. Physical Review E, 1996, 53, 498-506.	0.8	49
245	Extended Irreversible Thermodynamics. , 1996, , .		213
246	Extended Irreversible Thermodynamics. , 1996, , 41-74.		15
247	Hyperbolic Heat Conduction. , 1996, , 167-202.		0
248	Non-classical Diffusion and Electrical Conduction. , 1996, , 287-320.		0
249	The Kinetic Theory of Gases. , 1996, , 77-110.		0
250	Generalized Hydrodynamics and Computer Simulations. , 1996, , 265-286.		0
251	Relativistic Formulation and Cosmological Applications. , 1996, , 345-372.		0
252	Rheological Materials. , 1996, , 203-240.		0

#	ARTICLE	IF	CITATIONS
253	Non-equilibrium Statistical Mechanics. , 1996, , 131-164.		0
254	Fluctuation Theory. , 1996, , 111-130.		0
255	Extended Irreversible Thermodynamics: Statements and Prospects. , 1996, , 37-54.		0
256	Nonlinear transport coefficients and fluctuation-dissipation theorem. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 203, 129-132.	0.9	6
257	Hydrodynamic interactions and the shear-induced shift of the critical point in polymer solutions. Polymer, 1995, 36, 4107-4112.	1.8	25
258	Equations of state of a dilute gas under a heat flux. Physical Review E, 1995, 52, 3490-3494.	0.8	14
259	Second-sound wave in photoinjected plasma in semiconductors. Physical Review B, 1995, 52, 5030-5035.	1.1	15
260	Thermodynamic pressure in nonequilibrium gases. Physical Review E, 1995, 51, 158-163.	0.8	39
261	Entropy Flux and Absolute Temperature in Extended Irreversible Thermodynamics. Journal of Non-Equilibrium Thermodynamics, 1995, 20, .	2.4	12
262	Information theory and heat transport in relativistic gases. Journal of Physics A, 1995, 28, 1585-1592.	1.6	11
263	Nonequilibrium Lagrange Multipliers and Heat-Flux Saturation. Journal of Non-Equilibrium Thermodynamics, 1995, 20, .	2.4	16
264	Information-theoretical analysis of a classical relativistic gas under a steady heat flow. American Journal of Physics, 1995, 63, 237-242.	0.3	12
265	Thermodynamics of polymer solutions under flow: Phase separation and polymer degradation. Advances in Polymer Science, 1995, , 207-266.	0.4	26
266	Nonequilibrium Thermodynamics and the Degradation of Polymers under Shear Flow. Journal of Non-Equilibrium Thermodynamics, 1994, 19, .	2.4	12
267	Nonequilibrium temperature versus local-equilibrium temperature. Physical Review E, 1994, 49, 1040-1048.	0.8	101
268	Thermal waves in an extended hydrodynamic approach. Physica A: Statistical Mechanics and Its Applications, 1994, 212, 369-381.	1.2	14
269	Comparison of two thermodynamic nonlinearities in thermal conductivity in strong electric fields. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 173, 421-423.	0.9	7
270	Viscoelastic effects in cosmological expansion. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 175, 395-396.	0.9	11

#	ARTICLE	IF	CITATIONS
271	Nonequilibrium entropy and the second law of thermodynamics: A simple illustration. International Journal of Thermophysics, 1993, 14, 671-683.	1.0	12
272	Dynamical and Thermodynamical Approaches to Phase Separation in Polymer Solutions Under Flow. Europhysics Letters, 1993, 23, 469-474.	0.7	22
273	Cosmological perturbations in a universe with particle production. Classical and Quantum Gravity, 1993, 10, 1775-1789.	1.5	17
274	Polymer solutions and chemical reactions under flow: A thermodynamic description. Journal of Chemical Physics, 1993, 98, 7434-7439.	1.2	8
275	Equations of state and transport equations in viscous cosmological models. Physical Review D, 1993, 48, 1597-1601.	1.6	66
276	Reply to "Comments on "Possible experiment to check the reality of a nonequilibrium temperature". Physical Review E, 1993, 48, 3201-3202.	0.8	10
277	On the Spinodal Line of Polymer Solutions Under Shear. Journal of Non-Equilibrium Thermodynamics, 1993, 18, .	2.4	6
278	Extended kinetic theory. Journal of Mathematical Physics, 1993, 34, 2290-2316.	0.5	14
279	Extended Irreversible Thermodynamics. , 1993, , .		194
280	Extended Irreversible Thermodynamics. , 1993, , 41-66.		1
281	The Kinetic Theory of Gases. , 1993, , 69-93.		0
282	Generalized Hydrodynamics and Computer Simulations. , 1993, , 227-245.		0
283	Rheological Materials. , 1993, , 167-201.		0
284	Non-equilibrium Statistical Mechanics. , 1993, , 113-136.		0
285	Multicomponent Systems. , 1993, , 247-276.		0
286	Hyperbolic Heat Conduction. , 1993, , 139-165.		0
287	Waves in Fluids. , 1993, , 203-225.		0
288	Fluctuation Theory. , 1993, , 95-112.		0

#	ARTICLE	IF	CITATIONS
289	Extended Irreversible Thermodynamics: An Overview of Recent Bibliography. Journal of Non-Equilibrium Thermodynamics, 1992, 17, .	2.4	21
290	Possible experiment to check the reality of a nonequilibrium temperature. Physical Review A, 1992, 45, 8371-8373.	1.0	63
291	Questions and answers about a thermodynamic theory of the third type. Contemporary Physics, 1992, 33, 41-51.	0.8	37
292	H theorem for telegrapher type kinetic equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 171, 26-30.	0.9	12
293	Extended thermodynamics and the nonequilibrium Einstein relation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 168, 375-377.	0.9	9
294	Definition of nonequilibrium chemical potential: phase separation of polymers in shear flow. Macromolecules, 1991, 24, 2834-2840.	2.2	33
295	On the nonequilibrium thermodynamics of non-Fickian diffusion. Macromolecules, 1991, 24, 3597-3602.	2.2	59
296	Causal Friedmann-Robertson-Walker cosmology. Classical and Quantum Gravity, 1991, 8, 347-360.	1.5	168
297	Fourth-order terms in nonequilibrium thermodynamic potentials. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 159, 307-310.	0.9	1
298	Higher-order fluxes and the speed of thermal waves. International Journal of Heat and Mass Transfer, 1991, 34, 3055-3060.	2.5	15
299	Extended thermodynamics and the Jeffrey's constitutive equation. Rheologica Acta, 1991, 30, 226-229.	1.1	7
300	A Hamiltonian formulation for two hierarchies of thermodynamic evolution equations. Journal of Physics A, 1991, 24, 741-751.	1.6	16
301	Nonlocal and nonlinear effects in shock waves. Physical Review A, 1991, 44, 6496-6502.	1.0	40
302	Extended irreversible thermodynamics versus rheology. , 1991, , 257-277.		1
303	On the extended thermodynamics of dilute dumbbell solutions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1990, 144, 71-74.	0.9	6
304	Nonequilibrium absolute temperature, thermal waves and phonon hydrodynamics. Physica A: Statistical Mechanics and Its Applications, 1990, 163, 47-58.	1.2	52
305	On the non-equilibrium thermodynamics of some complex dynamical behaviours. Journal of Physics A, 1990, 23, 4603-4617.	1.6	5
306	On the thermodynamics of dilute dumbbell solutions under shear. Journal of Chemical Physics, 1990, 92, 1339-1344.	1.2	24

#	ARTICLE	IF	CITATIONS
307	Nonequilibrium equations of state and thermal waves. <i>Acta Physica Hungarica</i> , 1989, 66, 99-115.	0.1	13
308	Fluctuation theory and extended irreversible thermodynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989, 155, 221-231.	1.2	7
309	Nonequilibrium thermodynamics and continued fraction expansions of transport coefficients. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1989, 134, 400-404.	0.9	9
310	On the convexity of a nonequilibrium entropy and shock waves. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1989, 141, 165-168.	0.9	4
311	Extended irreversible thermodynamics. <i>Reports on Progress in Physics</i> , 1988, 51, 1105-1179.	8.1	512
312	Effect of suspended sediment on the heating of Lake Banyoles. <i>Journal of Geophysical Research</i> , 1988, 93, 9332-9336.	3.3	13
313	On the nonequilibrium thermodynamics of dilute suspensions. <i>Journal of Chemical Physics</i> , 1988, 89, 1651-1655.	1.2	5
314	Extended irreversible thermodynamics of heat conduction. <i>European Journal of Physics</i> , 1988, 9, 329-333.	0.3	13
315	Extended irreversible thermodynamics and runaway electrons in plasmas. <i>Journal of Physics A</i> , 1988, 21, L1039-L1042.	1.6	4
316	Extended thermodynamics of viscous phenomena in real gases. <i>Journal of Physics A</i> , 1987, 20, 6519-6529.	1.6	14
317	Carnot cycles and a non-equilibrium absolute temperature. <i>Journal of Physics A</i> , 1987, 20, 5371-5378.	1.6	18
318	Thermodynamic aspects of continued-fraction expansions in heat conduction. <i>Journal of Physics A</i> , 1986, 19, 2881-2890.	1.6	27
319	An extended thermodynamic approach for the longitudinal velocity correlation function. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1986, 135, 251-260.	1.2	8
320	Bacterial flagellar rotation as a nonequilibrium phase transition. <i>Journal of Theoretical Biology</i> , 1986, 122, 453-458.	0.8	6
321	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
322	On the nonequilibrium chemical potential of open pores in a membrane. <i>Journal of Chemical Physics</i> , 1986, 85, 5314-5316.	1.2	7
323	Non-local thermodynamic effects and efficiency of oxidative phosphorylation. <i>Journal of Theoretical Biology</i> , 1985, 115, 153-160.	0.8	0
324	A simple nonequilibrium thermodynamic description of some inhibitors of oxidative phosphorylation. <i>Journal of Theoretical Biology</i> , 1985, 117, 471-488.	0.8	21

#	ARTICLE	IF	CITATIONS
325	The underlying thermodynamic aspects of generalized hydrodynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 1985, 107, 17-20.	0.9	13
326	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
327	On the thermodynamic curvature of nonequilibrium gases. Journal of Chemical Physics, 1985, 83, 4715-4716.	1.2	14
328	Generalized hydrodynamics and extended irreversible thermodynamics. Physical Review A, 1985, 31, 2502-2508.	1.0	56
329	Second-order coefficients for radiating fluids. Astrophysical Journal, 1985, 291, 447.	1.6	15
330	On a non-equilibrium partition function for heat conduction. Journal of Physics A, 1984, 17, 2799-2805.	1.6	31
331	On the foundations of extended irreversible thermodynamics. Journal of Statistical Physics, 1984, 37, 465-484.	0.5	73
332	An approach to extended irreversible thermodynamics II. Fluctuation theory. , 1984, , 105-123.		1
333	Generalized thermodynamic stability of systems under shear. Physics Letters, Section A: General, Atomic and Solid State Physics, 1983, 95, 23-26.	0.9	14
334	A thermodynamic approach to heat and electric conduction in solids. Physica A: Statistical Mechanics and Its Applications, 1983, 121, 552-562.	1.2	29
335	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
336	Equilibrium and non-equilibrium fluctuations in relativistic fluids. Journal of Physics A, 1983, 16, 775-781.	1.6	20
337	Generalized van der Waals equation for nonequilibrium fluids. Physical Review A, 1983, 28, 2541-2543.	1.0	13
338	Equilibrium Third Moments and Non-Equilibrium Second Moments of Fluctuations of Hydrodynamic Dissipative Fluxes. Journal of Non-Equilibrium Thermodynamics, 1983, 8, .	2.4	9
339	Non-equilibrium hydrodynamic fluctuations and a generalised entropy. Journal of Physics A, 1982, 15, 3195-3208.	1.6	28
340	Thermodynamic Description of Ultrasonic Attenuation in Metals. Journal of Non-Equilibrium Thermodynamics, 1982, 7, .	2.4	7
341	A nonclassical thermodynamic description of heat conducting viscous fluids. Journal of Chemical Physics, 1982, 77, 970-978.	1.2	31
342	Thermodynamic aspects of nonequilibrium current fluctuations. Physical Review A, 1982, 25, 3277-3280.	1.0	25

#	ARTICLE	IF	CITATIONS
343	Irreversible-thermodynamic approach to nonequilibrium heat fluctuations. <i>Physical Review A</i> , 1982, 25, 508-518.	1.0	44
344	Hydrodynamic fluctuations near the Rayleigh-Benard instability. , 1982, , 138-159.		1
345	On the definition of non-equilibrium entropy. <i>Journal of Physics A</i> , 1982, 15, L565-L567.	1.6	6
346	On Non-Equilibrium Corrections to the Thermodynamic Variables in a Fluid under Shear. <i>Journal of Non-Equilibrium Thermodynamics</i> , 1982, 7, .	2.4	14
347	On the fast and the slow components of thermal fluctuations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1981, 109, 208-220.	1.2	18
348	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
349	Heat and Electric Fluctuations. A Relativistic Approach. <i>Journal of Non-Equilibrium Thermodynamics</i> , 1981, 6, .	2.4	2
350	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
351	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
352	About the relativistic temperature gradient. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1980, 78, 317-318.	0.9	7
353	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
354	Hydrodynamical fluctuations in extended irreversible thermodynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1980, 101, 588-598.	1.2	39
355	Extended irreversible thermodynamics: Evolution and fluctuations of dissipative fluxes. , 1980, , 352-358.		0
356	Fluctuations of Dissipative Fluxes and the Onsager-Machlup Function. <i>Journal of Non-Equilibrium Thermodynamics</i> , 1980, 5, .	2.4	14
357	A Fokker-Planck equation for the fluctuations of the heat flux. <i>Journal of Physics A</i> , 1980, 13, L175-L177.	1.6	2
358	Electric current fluctuations in extended irreversible thermodynamics. <i>Journal of Physics A</i> , 1980, 13, L47-L49.	1.6	21
359	An extension of the local equilibrium hypothesis. <i>Journal of Physics A</i> , 1980, 13, 275-290.	1.6	115
360	Heat conduction in relativistic extended thermodynamics. <i>Journal of Physics A</i> , 1980, 13, L77-L79.	1.6	23

#	ARTICLE	IF	CITATIONS
361	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
362	A generalised Gibbs equation for second-order fluids. Journal of Physics A, 1979, 12, 2515-2520.	1.6	21
363	Thermal Effects in Laminar, Incompressible, Viscous and Unsteady Plane Stagnation Flows. Journal of Non-Equilibrium Thermodynamics, 1979, 4, .	2.4	3
364	A Dynamical Interpretation of Second-Order Constitutive Equations of Hydrodynamics. Journal of Non-Equilibrium Thermodynamics, 1979, 4, .	2.4	31
365	Heat Fluctuations and a generalized Gibbs equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1979, 72, 78-80.	0.9	20
366	Variational solutions for the two-stream mixing of power-law fluids. Flow, Turbulence and Combustion, 1979, 35, 393-407.	0.2	0
367	Variational solutions for some steady and non-steady laminar viscous flows with stagnation points. Flow, Turbulence and Combustion, 1976, 32, 371-379.	0.2	4