

Ilya Karlin

List of Publications by Year in descending order

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171
papers

6,829
citations

53794

45
h-index

76900

74
g-index

171
all docs

171
docs citations

171
times ranked

2143
citing authors

#	ARTICLE	IF	CITATIONS
1	Consistent lattice Boltzmann model for reactive mixtures. Journal of Fluid Mechanics, 2022, 941, .	3.4	5
2	Particles on demand for flows with strong discontinuities. Physical Review E, 2022, 106, .	2.1	4
3	Detonation modeling with the particles on demand method. AIP Advances, 2022, 12, 075107.	1.3	7
4	Extended Lattice Boltzmann Model. Entropy, 2021, 23, 475.	2.2	8
5	Extended lattice Boltzmann model for gas dynamics. Physics of Fluids, 2021, 33, .	4.0	22
6	Multiscale semi-Lagrangian lattice Boltzmann method. Physical Review E, 2021, 103, 063305.	2.1	6
7	A lattice Boltzmann model for reactive mixtures. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200402.	3.4	7
8	Kinetic Simulations of Compressible Non-Ideal Fluids: From Supercritical Flows to Phase-Change and Exotic Behavior. Computation, 2021, 9, 13.	2.0	3
9	Consistent lattice Boltzmann model for multicomponent mixtures. Journal of Fluid Mechanics, 2021, 909, .	3.4	15
10	Lattice Boltzmann method for fluid-structure interaction in compressible flow. Physics of Fluids, 2021, 33, .	4.0	14
11	10.1063/5.0062117.1. , 2021, , .		0
12	Thermokinetic lattice Boltzmann model of nonideal fluids. Physical Review E, 2020, 102, 020103.	2.1	17
13	Fluid dynamics, soft matter and complex systems: recent results and new methods. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190395.	3.4	1
14	Semi-Lagrangian lattice Boltzmann model for compressible flows on unstructured meshes. Physical Review E, 2020, 101, 023311.	2.1	20
15	Arbitrary Lagrangian-Eulerian formulation of lattice Boltzmann model for compressible flows on unstructured moving meshes. Physics of Fluids, 2020, 32, .	4.0	15
16	Theory, Analysis, and Applications of the Entropic Lattice Boltzmann Model for Compressible Flows. Entropy, 2020, 22, 370.	2.2	15
17	Wetting boundaries for a ternary high-density-ratio lattice Boltzmann method. Physical Review E, 2019, 100, 013308.	2.1	19
18	Lattice Boltzmann model for compressible flows on standard lattices: Variable Prandtl number and adiabatic exponent. Physical Review E, 2019, 99, 013306.	2.1	51

#	ARTICLE	IF	CITATIONS
19	Fluid-structure interaction with the entropic lattice Boltzmann method. <i>Physical Review E</i> , 2018, 97, 023305.	2.1	26
20	Water ring-bouncing on repellent singularities. <i>Soft Matter</i> , 2018, 14, 2227-2233.	2.7	79
21	Derivation of regularized Grad's moment system from kinetic equations: modes, ghosts and non-Markov fluxes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170230.	3.4	5
22	Particles on Demand for Kinetic Theory. <i>Physical Review Letters</i> , 2018, 121, 130602.	7.8	44
23	Entropic lattice Boltzmann simulation of thermal convective turbulence. <i>Computers and Fluids</i> , 2018, 175, 2-19.	2.5	17
24	Entropic multi-relaxation free-energy lattice Boltzmann model for two-phase flows. <i>Europhysics Letters</i> , 2018, 122, 14002.	2.0	15
25	Ternary Free-Energy Entropic Lattice Boltzmann Model with a High Density Ratio. <i>Physical Review Letters</i> , 2018, 120, 234501.	7.8	60
26	Simulation of turbulent flows with the entropic multirelaxation time lattice Boltzmann method on body-fitted meshes. <i>Journal of Fluid Mechanics</i> , 2018, 849, 35-56.	3.4	45
27	Drops bouncing off macro-textured superhydrophobic surfaces. <i>Journal of Fluid Mechanics</i> , 2017, 824, 866-885.	3.4	57
28	Transitional flows with the entropic lattice Boltzmann method. <i>Journal of Fluid Mechanics</i> , 2017, 824, 388-412.	3.4	34
29	Entropic multirelaxation-time lattice Boltzmann method for moving and deforming geometries in three dimensions. <i>Physical Review E</i> , 2017, 95, 063306.	2.1	12
30	Beyond Navier-Stokes equations: capillarity of ideal gas. <i>Contemporary Physics</i> , 2017, 58, 70-90.	1.8	10
31	Entropic multi-relaxation time lattice Boltzmann model for complex flows. <i>Journal of Fluid Mechanics</i> , 2016, 801, 623-651.	3.4	62
32	Simulation of binary droplet collisions with the entropic lattice Boltzmann method. <i>Physics of Fluids</i> , 2016, 28, 022106.	4.0	46
33	Spectral Quasi-Equilibrium Manifold for Chemical Kinetics. <i>Journal of Physical Chemistry A</i> , 2016, 120, 3406-3413.	2.5	10
34	Invariance principle and model reduction for the Fokker-Planck equation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20160142.	3.4	3
35	Conjugate heat transfer with the entropic lattice Boltzmann method. <i>Physical Review E</i> , 2016, 94, 013305.	2.1	44
36	Grid refinement for entropic lattice Boltzmann models. <i>Physical Review E</i> , 2016, 94, 053311.	2.1	39

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37	Entropic lattice Boltzmann model for gas dynamics: Theory, boundary conditions, and implementation. <i>Physical Review E</i> , 2016, 93, 063302.	2.1	43
38	Lattice Kinetic Theory in a Comoving Galilean Reference Frame. <i>Physical Review Letters</i> , 2016, 117, 010604.	7.8	42
39	Contactless prompt tumbling rebound of drops from a sublimating slope. <i>Physical Review Fluids</i> , 2016, 1, .	2.5	22
40	Entropic lattice Boltzmann method for multiphase flows: Fluid-solid interfaces. <i>Physical Review E</i> , 2015, 92, 023308.	2.1	47
41	Entropic lattice Boltzmann model for compressible flows. <i>Physical Review E</i> , 2015, 92, 061301.	2.1	82
42	Entropic multirelaxation lattice Boltzmann models for turbulent flows. <i>Physical Review E</i> , 2015, 92, 043309.	2.1	72
43	Entropy-Assisted Computing of Low-Dissipative Systems. <i>Entropy</i> , 2015, 17, 8099-8110.	2.2	11
44	Free surface entropic lattice Boltzmann simulations of film condensation on vertical hydrophilic plates. <i>International Journal of Heat and Mass Transfer</i> , 2015, 87, 576-582.	4.8	1
45	Rayleigh-Bénard instability in graphene. <i>Physical Review B</i> , 2015, 91, .	3.2	15
46	n-Heptane/air combustion in perfectly stirred reactors: Dynamics, bifurcations and dominant reactions at critical conditions. <i>Combustion and Flame</i> , 2015, 162, 3166-3179.	5.2	29
47	Simulation of Droplets Collisions Using Two-Phase Entropic Lattice Boltzmann Method. <i>Journal of Statistical Physics</i> , 2015, 161, 1420-1433.	1.2	13
48	Entropic Lattice Boltzmann Method for Multiphase Flows. <i>Physical Review Letters</i> , 2015, 114, 174502.	7.8	135
49	Grad's approximation for moving and stationary walls in entropic lattice Boltzmann simulations. <i>Journal of Computational Physics</i> , 2015, 295, 340-354.	3.8	58
50	Simulations of Heated Bluff-Bodies with the Multi-Speed Entropic Lattice Boltzmann Method. <i>Journal of Statistical Physics</i> , 2015, 161, 1434-1452.	1.2	4
51	Multispeed entropic lattice Boltzmann model for thermal flows. <i>Physical Review E</i> , 2014, 90, 043306.	2.1	51
52	Gibbs' principle for the lattice-kinetic theory of fluid dynamics. <i>Physical Review E</i> , 2014, 90, 031302.	2.1	94
53	Entropy production analysis for mechanism reduction. <i>Combustion and Flame</i> , 2014, 161, 1507-1515.	5.2	34
54	SIMULATION OF FLOW PAST A CIRCULAR CYLINDER USING ENTROPIC LATTICE BOLTZMANN METHOD. <i>International Journal of Modern Physics C</i> , 2014, 25, 1340024.	1.7	1

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55	The global relaxation redistribution method for reduction of combustion kinetics. Journal of Chemical Physics, 2014, 141, 044102.	3.0	11
56	Non-perturbative hydrodynamic limits: A case study. Physica A: Statistical Mechanics and Its Applications, 2014, 403, 189-194.	2.6	3
57	Exact Lattice Boltzmann Equation. Physical Review Letters, 2013, 111, 090601.	7.8	16
58	Consistent two-population lattice Boltzmann model for thermal flows. Physical Review E, 2013, 88, 063310.	2.1	64
59	Entropic lattice Boltzmann method for turbulent flow simulations: Boundary conditions. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 1925-1930.	2.6	39
60	Hilbert's 6th Problem: exact and approximate hydrodynamic manifolds for kinetic equations. Bulletin of the American Mathematical Society, 2013, 51, 187-246.	1.5	43
61	Relativistic lattice Boltzmann model with improved dissipation. Physical Review D, 2013, 87, .	4.7	29
62	Ultrarelativistic transport coefficients in two dimensions. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P02036.	2.3	16
63	Energy Conserving Lattice Boltzmann Models for Incompressible Flow Simulations. Communications in Computational Physics, 2013, 13, 603-613.	1.7	11
64	Comment on "Numerics of the lattice Boltzmann method: Effects of collision models on the lattice Boltzmann simulations". Physical Review E, 2011, 84, 068701.	2.1	24
65	Adaptive simplification of complex multiscale systems. Physical Review E, 2011, 83, 036706.	2.1	24
66	Comment on "Rectangular lattice Boltzmann method". Physical Review E, 2011, 83, 048701.	2.1	8
67	Droplet Collision Simulation by a Multi-Speed Lattice Boltzmann Method. Communications in Computational Physics, 2011, 9, 1219-1234.	1.7	22
68	Matrix lattice Boltzmann reloaded. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 2202-2210.	3.4	6
69	Adaptive Simplification of Complex Systems: A Review of the Relaxation-Redistribution Approach. Lecture Notes in Computational Science and Engineering, 2011, , 231-240.	0.3	2
70	Factorization symmetry in the lattice Boltzmann method. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 1530-1548.	2.6	60
71	Coupling of the model reduction technique with the lattice Boltzmann method for combustion simulations. Combustion and Flame, 2010, 157, 1833-1849.	5.2	33
72	Lattice Boltzmann method for direct numerical simulation of turbulent flows. Journal of Fluid Mechanics, 2010, 656, 298-308.	3.4	71

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73	Quasiequilibrium lattice Boltzmann models with tunable bulk viscosity for enhancing stability. <i>Physical Review E</i> , 2010, 81, 016702.	2.1	28
74	The Role of Thermodynamics in Model Reduction When Using Invariant Grids. <i>Communications in Computational Physics</i> , 2010, 8, 701-734.	1.7	8
75	Lattice Boltzmann method with restored Galilean invariance. <i>Physical Review E</i> , 2009, 79, 066702.	2.1	34
76	Lattices for the lattice Boltzmann method. <i>Physical Review E</i> , 2009, 79, 046701.	2.1	135
77	Combustion simulation via lattice Boltzmann and reduced chemical kinetics. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P06013.	2.3	27
78	Method of invariant grid for model reduction of hydrogen combustion. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 519-526.	3.9	15
79	Complete Galilean invariant lattice Boltzmann models. <i>Computer Physics Communications</i> , 2008, 179, 140-143.	7.5	10
80	Quasi-equilibrium grid algorithm: Geometric construction for model reduction. <i>Journal of Computational Physics</i> , 2008, 227, 5535-5560.	3.8	22
81	Lattice Boltzmann simulation of catalytic reactions. <i>Physical Review E</i> , 2008, 78, 046711.	2.1	43
82	Multispeed models in off-lattice Boltzmann simulations. <i>Physical Review E</i> , 2008, 77, 025701.	2.1	28
83	Lattice Boltzmann method for simulation of compressible flows on standard lattices. <i>Physical Review E</i> , 2008, 78, 016704.	2.1	53
84	Exact Linear Hydrodynamics from the Boltzmann Equation. <i>Physical Review Letters</i> , 2008, 100, 214503.	7.8	21
85	Hydrodynamics beyond Navier-Stokes: The slip flow model. <i>Physical Review E</i> , 2008, 78, 016705.	2.1	42
86	Lattice Boltzmann method for thermal flow simulation on standard lattices. <i>Physical Review E</i> , 2007, 76, 016702.	2.1	105
87	Hyperbolicity of exact hydrodynamics for three-dimensional linearized Grad's equations. <i>Physical Review E</i> , 2007, 76, 022201.	2.1	17
88	Renormalization of the lattice Boltzmann hierarchy. <i>Physical Review E</i> , 2007, 76, 025701.	2.1	17
89	Kinetically reduced local Navier-Stokes equations for simulation of incompressible viscous flows. <i>Physical Review E</i> , 2007, 76, 066704.	2.1	26
90	Lattice Boltzmann model for the simulation of multicomponent mixtures. <i>Physical Review E</i> , 2007, 76, 046703.	2.1	72

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91	From hyperbolic regularization to exact hydrodynamics for linearized Grad's equations. Physical Review E, 2007, 75, 051204.	2.1	22
92	Hydrodynamics beyond Navier-Stokes: Exact Solution to the Lattice Boltzmann Hierarchy. Physical Review Letters, 2007, 98, 124502.	7.8	136
93	Quasi-equilibrium lattice Boltzmann method. European Physical Journal B, 2007, 56, 135-139.	1.5	45
94	Optimization Strategies for the Entropic Lattice Boltzmann Method. Journal of Scientific Computing, 2007, 30, 369-387.	2.3	18
95	Entropic Lattice Boltzmann Models for Hydrodynamics in Three Dimensions. Physical Review Letters, 2006, 97, 010201.	7.8	116
96	Grad's approximation for missing data in lattice Boltzmann simulations. Europhysics Letters, 2006, 74, 215-221.	2.0	59
97	Entropic lattice Boltzmann method for microflows. Physica A: Statistical Mechanics and Its Applications, 2006, 359, 289-305.	2.6	69
98	Quasi-equilibrium closure hierarchies for the Boltzmann equation. Physica A: Statistical Mechanics and Its Applications, 2006, 360, 325-364.	2.6	24
99	Entropic lattice Boltzmann method for simulation of binary mixtures. Mathematics and Computers in Simulation, 2006, 72, 79-83.	4.4	18
100	Numerical stability of Entropic versus positivity-enforcing Lattice Boltzmann schemes. Mathematics and Computers in Simulation, 2006, 72, 227-231.	4.4	30
101	Entropic lattice Boltzmann method for simulation of thermal flows. Mathematics and Computers in Simulation, 2006, 72, 179-183.	4.4	23
102	Lattice Boltzmann Method and Kinetic Theory. , 2006, , 403-422.		1
103	Simulation of binary mixtures with the lattice Boltzmann method. Physical Review E, 2006, 74, 056707.	2.1	26
104	Entropy and Galilean Invariance of Lattice Boltzmann Theories. Physical Review Letters, 2006, 97, 190601.	7.8	136
105	Kinetically reduced local Navier-Stokes equations: An alternative approach to hydrodynamics. Physical Review E, 2006, 74, 035702.	2.1	19
106	General characteristic-based algorithm for off-lattice Boltzmann simulations. Europhysics Letters, 2006, 75, 434-440.	2.0	62
107	A COMPARISON OF SINGLE-TIME RELAXATION LATTICE BOLTZMANN SCHEMES WITH ENHANCED STABILITY. International Journal of Modern Physics C, 2006, 17, 1375-1390.	1.7	5
108	Invariance correction to Grad's equations: where to go beyond approximations?. Continuum Mechanics and Thermodynamics, 2005, 17, 311-335.	2.2	1

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109	Consistent Lattice Boltzmann Method. <i>Physical Review Letters</i> , 2005, 95, 260605.	7.8	92
110	Thermodynamic Theory of Incompressible Hydrodynamics. <i>Physical Review Letters</i> , 2005, 94, 080602.	7.8	34
111	Uniqueness of thermodynamic projector and kinetic basis of molecular individualism. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 336, 391-432.	2.6	23
112	Legendre integrators, post-processing and quasiequilibrium. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2004, 120, 149-167.	2.4	8
113	Combined micro–macro integration scheme from an invariance principle: application to ferrofluid dynamics. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2004, 120, 33-40.	2.4	5
114	Constructive methods of invariant manifolds for kinetic problems. <i>Physics Reports</i> , 2004, 396, 197-403.	25.6	128
115	Invariant grids for reaction kinetics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 333, 106-154.	2.6	70
116	Kinetic theory of turbulence modeling: smallness parameter, scaling and microscopic derivation of Smagorinsky model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 338, 379-394.	2.6	46
117	Method of invariant manifold for chemical kinetics. <i>Chemical Engineering Science</i> , 2003, 58, 4751-4768.	3.8	208
118	Canonical distribution functions in polymer dynamics. (II). Liquid-crystalline polymers. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 319, 134-150.	2.6	34
119	Irreversibility in the short memory approximation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 327, 399-424.	2.6	20
120	Family of additive entropy functions out of thermodynamic limit. <i>Physical Review E</i> , 2003, 67, 016104.	2.1	39
121	Additive generalization of the Boltzmann entropy. <i>Physical Review E</i> , 2003, 67, 067104.	2.1	8
122	Dynamic mean-field models from a nonequilibrium thermodynamics perspective. <i>Physical Review E</i> , 2003, 68, 016115.	2.1	13
123	Galilean-invariant lattice-Boltzmann models with Htheorem. <i>Physical Review E</i> , 2003, 68, 025103.	2.1	80
124	Minimal entropic kinetic models for hydrodynamics. <i>Europhysics Letters</i> , 2003, 63, 798-804.	2.0	242
125	Geometry of Irreversibility. , 2003, , 19-43.		4
126	Invariance Principle to Decide Between Micro and Macro Computations. , 2003, , 45-52.		3

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127	Duality in nonextensive statistical mechanics. <i>Physical Review E</i> , 2002, 65, 036128.	2.1	22
128	Macroscopic dynamics through coarse-graining: A solvable example. <i>Physical Review E</i> , 2002, 65, 026116.	2.1	13
129	Polymer dynamics in wall turbulent flow. <i>Europhysics Letters</i> , 2002, 58, 616-622.	2.0	30
130	Boundary layer variational principles: A case study. <i>Physical Review E</i> , 2002, 66, 011201.	2.1	13
131	Colloquium: Role of the Htheorem in lattice Boltzmann hydrodynamic simulations. <i>Reviews of Modern Physics</i> , 2002, 74, 1203-1220.	45.6	179
132	Kinetic boundary conditions in the lattice Boltzmann method. <i>Physical Review E</i> , 2002, 66, 026311.	2.1	303
133	Single relaxation time model for entropic lattice Boltzmann methods. <i>Physical Review E</i> , 2002, 65, 056312.	2.1	106
134	Dissipative Quantum Dynamics from Wigner Distributions. <i>AIP Conference Proceedings</i> , 2002, , .	0.4	2
135	Canonical distribution functions in polymer dynamics. (I). Dilute solutions of flexible polymers. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 315, 367-385.	2.6	31
136	Hydrodynamics from Grad's equations: What can we learn from exact solutions?. <i>Annalen Der Physik</i> , 2002, 11, 783-833.	2.4	47
137	Entropy Function Approach to the Lattice Boltzmann Method. <i>Journal of Statistical Physics</i> , 2002, 107, 291-308.	1.2	103
138	Ehrenfest's argument extended to a formalism of nonequilibrium thermodynamics. <i>Physical Review E</i> , 2001, 63, 066124.	2.1	30
139	Corrections and enhancements of quasi-equilibrium states. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2001, 96, 203-219.	2.4	54
140	Comment on "Convective Nonlinearity in Non-Newtonian Fluids". <i>Physical Review Letters</i> , 2001, 86, 744-744.	7.8	6
141	Reduced description in the reaction kinetics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 275, 361-379.	2.6	39
142	The universal limit in dynamics of dilute polymeric solutions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 275, 152-177.	2.6	23
143	Resummation techniques in the kinetic-theoretical approach to subgrid turbulence modeling. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 280, 92-98.	2.6	13
144	Stabilization of the lattice Boltzmann method by the Htheorem: A numerical test. <i>Physical Review E</i> , 2000, 62, 7999-8003.	2.1	83

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145	Validity of a macroscopic description in dilute polymeric solutions. <i>Physical Review E</i> , 2000, 62, 1441-1443.	2.1	16
146	Supersymmetry solution for finitely extensible dumbbell model. <i>Europhysics Letters</i> , 2000, 51, 355-360.	2.0	8
147	Exact summation of the Chapman-Enskog expansion from moment equations. <i>Journal of Physics A</i> , 2000, 33, 8037-8046.	1.6	27
148	Generating moment equations in the Doi model of liquid-crystalline polymers. <i>Physical Review E</i> , 1999, 60, 5783-5787.	2.1	34
149	Lattice Boltzmann Method for Irregular Grids. <i>Physical Review Letters</i> , 1999, 82, 5245-5248.	7.8	23
150	Two-step approximation of space-independent relaxation. <i>Transport Theory and Statistical Physics</i> , 1999, 28, 271-296.	0.4	9
151	Perfect entropy functions of the Lattice Boltzmann method. <i>Europhysics Letters</i> , 1999, 47, 182-188.	2.0	328
152	Maximum Entropy Principle for Lattice Kinetic Equations. <i>Physical Review Letters</i> , 1998, 81, 6-9.	7.8	145
153	Equilibria for discrete kinetic equations. <i>Physical Review E</i> , 1998, 58, R4053-R4056.	2.1	28
154	Schrödinger operator in an overfull set. <i>Europhysics Letters</i> , 1998, 42, 113-118.	2.0	2
155	Thermohydrodynamic lattice BGK schemes with non-perturbative equilibria. <i>Europhysics Letters</i> , 1998, 41, 279-284.	2.0	34
156	Dynamic correction to moment approximations. <i>Physical Review E</i> , 1998, 57, 1668-1672.	2.1	52
157	Reply to "Comment on "Invariance principle for extension of hydrodynamics: Nonlinear viscosity"". <i>Physical Review E</i> , 1998, 57, 3674-3675.	2.1	7
158	Invariance principle for extension of hydrodynamics: Nonlinear viscosity. <i>Physical Review E</i> , 1997, 55, 1573-1576.	2.1	35
159	Gradient expansions in kinetic theory of phonons. <i>Physical Review B</i> , 1997, 55, 6324-6329.	3.2	16
160	Dissipative brackets as a tool for kinetic modeling. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 239, 493-508.	2.6	9
161	Relaxational trajectories: global approximations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 231, 648-672.	2.6	21
162	Scattering rates versus moments: Alternative Grad equations. <i>Physical Review E</i> , 1996, 54, R3109-R3112.	2.1	25

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163	Short-Wave Limit of Hydrodynamics: A Soluble Example. Physical Review Letters, 1996, 77, 282-285.	7.8	57
164	Technical note: On "solid liquid" limit of hydrodynamic equations. Transport Theory and Statistical Physics, 1995, 24, 1419-1421.	0.4	1
165	General approach to constructing models of the Boltzmann equation. Physica A: Statistical Mechanics and Its Applications, 1994, 206, 401-420.	2.6	56
166	Method of invariant manifolds and regularization of acoustic spectra. Transport Theory and Statistical Physics, 1994, 23, 559-632.	0.4	67
167	A dynamic model of tree terminal growth. Canadian Journal of Forest Research, 1993, 23, 326-329.	1.7	8
168	Structure and approximations of the chapman-enskog expansion for the linearized grad equations. Transport Theory and Statistical Physics, 1992, 21, 101-117.	0.4	28
169	Simplest nonlinear regularization. Transport Theory and Statistical Physics, 1992, 21, 291-293.	0.4	6
170	Thermodynamic parameterization. Physica A: Statistical Mechanics and Its Applications, 1992, 190, 393-404.	2.6	43
171	Universal expansion of three-particle distribution function. Theoretical and Mathematical Physics(Russian Federation), 1991, 88, 977-985.	0.9	4