Joel L Lebowitz

List of Publications by Year
in descending order

124 papers	8,022 citations	87843 38 h-index	46771 89 g-index
133 all docs	133 docs citations	133 times ranked	3578 citing authors

#	Article	IF	Citations
1	Time evolution of a mean-field generalized contact process. Journal of Statistical Mechanics: Theory and Experiment, 2022, 2022, 023502.	0.9	1
2	Fluctuation and entropy in spectrally constrained random fields. Communications in Mathematical Physics, 2021, 386, 749-780.	1.0	6
3	Exact solution of the 1D time-dependent Schrödinger equation for the emission of quasi-free electrons from a flat metal surface by a laser. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 365201.	0.7	1
4	Quantitative bounds on the rate of approach to equilibrium for some one-dimensional stochastic nonlinear Schrödinger equations. Nonlinearity, 2019, 32, 1352-1374.	0.6	2
5	Transport Properties of the Classical Toda Chain: Effect of a Pinning Potential. Journal of Statistical Physics, 2019, 175, 1298-1310.	0.5	12
6	Ionization by an Oscillating Field: Resonances and Photons. Journal of Statistical Physics, 2019, 175, 681-689.	0.5	0
7	On the Nonequilibrium Entropy of Large and Small Systems. Springer Proceedings in Mathematics and Statistics, 2019, , 581-596.	0.1	1
8	Nonperturbative Time Dependent Solution of a Simple Ionization Model. Communications in Mathematical Physics, 2018, 361, 217-238.	1.0	7
9	Crystalline Ordering and Large Fugacity Expansion for Hard-Core Lattice Particles. Journal of Physical Chemistry B, 2018, 122, 3266-3271.	1.2	1
10	High-Fugacity Expansion, Lee–Yang Zeros, and Order–Disorder Transitions in Hard-Core Lattice Systems. Communications in Mathematical Physics, 2018, 364, 655-682.	1.0	2
11	Solution of the time dependent Schrödinger equation leading to Fowler-Nordheim field emission. Journal of Applied Physics, 2018, 124, .	1.1	6
12	Generalized Stealthy Hyperuniform Processes: Maximal Rigidity and the Bounded Holes Conjecture. Communications in Mathematical Physics, 2018, 363, 97-110.	1.0	26
13	Macroscopic and microscopic thermal equilibrium. Annalen Der Physik, 2017, 529, 1600301.	0.9	22
14	A life in statistical mechanics. European Physical Journal H, 2017, 42, 1-21.	0.5	1
15	Time evolution of the Luttinger model with nonuniform temperature profile. Physical Review B, 2017, 95, .	1.1	22
16	Steady States and Universal Conductance in a Quenched Luttinger Model. Communications in Mathematical Physics, 2017, 349, 551-582.	1.0	35
17	Number Rigidity in Superhomogeneous Random Point Fields. Journal of Statistical Physics, 2017, 166, 1016-1027.	0.5	17
18	Any orthonormal basis in high dimension is uniformly distributed over the sphere. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2017, 53, .	0.7	2

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19	Fluctuations, large deviations and rigidity in hyperuniform systems: A brief survey. Indian Journal of Pure and Applied Mathematics, 2017, 48, 609-631.	0.3	33
20	A note on Lee–Yang zeros in the negative half-plane. Journal of Physics Condensed Matter, 2016, 28, 414004.	0.7	3
21	Exponential Relaxation to Equilibrium for a One-Dimensional Focusing Non-Linear Schrödinger Equation with Noise. Communications in Mathematical Physics, 2016, 342, 303-332.	1.0	12
22	Universal Probability Distribution for the Wave Function of a Quantum System Entangled with its Environment. Communications in Mathematical Physics, 2016, 342, 965-988.	1.0	10
23	Thermal Equilibrium of a Macroscopic Quantum System in a Pure State. Physical Review Letters, 2015, 115, 100402.	2.9	39
24	Green-Kubo Formula for Weakly Coupled Systems with Noise. Communications in Mathematical Physics, 2015, 334, 1377-1412.	1.0	14
25	STABILITY AND VARIABILITY. International Journal of Modern Physics B, 2014, 28, 1430002.	1.0	0
26	Program of the 111th Statistical Mechanics Conference Rutgers University, Busch Campus, Hill Center Sunday, May 11, 2014–Tuesday, May 13, 2014. Journal of Statistical Physics, 2014, 157, 603-607.	0.5	0
27	STABILITY AND VARIABILITY. , 2014, , .		0
28	Local Central Limit Theorem for Determinantal Point Processes. Journal of Statistical Physics, 2014, 157, 60-69.	0.5	8
29	Program of the 109th Statistical Mechanics Conference Rutgers University, Busch Campus, Hill Center Sunday, May 12, 2013–Tuesday, May 14, 2013. Journal of Statistical Physics, 2013, 152, 997-1001.	0.5	0
30	Program of the 108th Statistical Mechanics Conference Rutgers University, Busch Campus, Hill Center, Room 114 Sunday, Monday and Tuesday December 16–December 18, 2012. Journal of Statistical Physics, 2013, 152, 799-803.	0.5	0
31	On an extension problem for density matrices. Journal of Mathematical Physics, 2013, 54, .	0.5	15
32	Proof of rounding by quenched disorder of first order transitions in low-dimensional quantum systems. Journal of Mathematical Physics, 2012, 53, .	0.5	26
33	Location of the Lee-Yang zeros and absence of phase transitions in some Ising spin systems. Journal of Mathematical Physics, 2012, 53, .	0.5	14
34	Spatial Structure of Stationary Nonequilibrium States in the Thermostatted Periodic Lorentz Gas. Journal of Statistical Physics, 2012, 146, 1221-1243.	0.5	7
35	Phase Transitions with Four-Spin Interactions. Communications in Mathematical Physics, 2011, 304, 711-722.	1.0	6
36	Program of the 103rd Statistical Mechanics Conference. Journal of Statistical Physics, 2010, 140, 812-817.	0.5	0

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37	Program of the 102nd Statistical Mechanics Conference. Journal of Statistical Physics, 2010, 138, 1145-1150.	0.5	0
38	Normal typicality and von Neumann's quantum ergodic theorem. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2010, 466, 3203-3224.	1.0	93
39	Nonequilibrium stationary state of a truncated stochastic nonlinear Schrödinger equation: Formulation and mean-field approximation. Physical Review E, 2010, 81, 031109.	0.8	2
40	Correlation inequalities for quantum spin systems with quenched centered disorder. Journal of Mathematical Physics, 2010, 51, .	0.5	16
41	Heat transport and phonon localization in mass-disordered harmonic crystals. Physical Review B, 2010, 81, .	1.1	69
42	Approach to thermal equilibrium of macroscopic quantum systems. Physical Review E, 2010, 81, 011109.	0.8	106
43	Program of the 100th Statistical Mechanics Conference/DIMACS Workshop. Journal of Statistical Physics, 2009, 134, 797-805.	0.5	0
44	On the Two Species Asymmetric Exclusion Process with Semi-Permeable Boundaries. Journal of Statistical Physics, 2009, 135, 1009-1037.	0.5	33
45	Program of the 101st Statistical Mechanics Conference. Journal of Statistical Physics, 2009, 136, 199-203.	0.5	0
46	Periodic Minimizers in 1D Local Mean Field Theory. Communications in Mathematical Physics, 2009, 286, 163-177.	1.0	22
47	Pattern formation in systems with competing interactions. , 2009, , .		3
48	Program of the 98th Statistical Mechanics Conference. Journal of Statistical Physics, 2008, 131, 559-565.	0.5	0
49	Vortices in the Two-Dimensional Simple Exclusion Process. Journal of Statistical Physics, 2008, 131, 821-841.	0.5	28
50	Program of the 99th Statistical Mechanics Conference Honoring Edouard Brezin & Giorgio Parisi. Journal of Statistical Physics, 2008, 132, 1147-1151.	0.5	0
51	From time-symmetric microscopic dynamics to time-asymmetric macroscopic behavior: an overview. , 2008, , 63-87.		28
52	Correlation Inequalities for Spin Glasses. Annales Henri Poincare, 2007, 8, 1461-1467.	0.8	16
53	10.1007/s10955-006-9040-z. Journal of Statistical Physics, 2006, 124, 445-483.	0.5	5
54	On the Distribution of the Wave Function for Systems in Thermal Equilibrium. Journal of Statistical Physics, 2006, 125, 1193-1221.	0.5	43

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55	Propagation Effects on the Breakdown of a Linear Amplifier Model: Complex-Mass Schrödinger Equation Driven by the Square of a Gaussian Field. Communications in Mathematical Physics, 2006, 264, 741-758.	1.0	8
56	Canonical Typicality. Physical Review Letters, 2006, 96, 050403.	2.9	555
57	Large Deviations for a Stochastic Model of Heat Flow. Journal of Statistical Physics, 2005, 121, 843-885.	0.5	86
58	Note on a diffraction–amplification problem. Journal of Physics A, 2004, 37, 5289-5294.	1.6	4
59	Fourier's Law for a Harmonic Crystal with Self-Consistent Stochastic Reservoirs. Journal of Statistical Physics, 2004, 116, 783-813.	0.5	146
60	A Laudatio for Elliott Lieb on His Receiving the Poincaré Medal at the International Congress on Mathematical Physics in Lisbon, July 30, 2003. Journal of Statistical Physics, 2004, 116, 9-11.	0.5	0
61	On the (Boltzmann) entropy of non-equilibrium systems. Physica D: Nonlinear Phenomena, 2004, 193, 53-66.	1.3	165
62	Using Kinetic Monte Carlo simulations to study phase separation in Alloys. Phase Transitions, 2004, 77, 433-456.	0.6	28
63	Nonperturbative analysis of a model quantum system under time periodic forcing. Comptes Rendus Mathematique, 2001, 332, 405-410.	0.5	3
64	Surface-directed spinodal decomposition in binary fluid mixtures. Physical Review E, 2001, 63, 041513.	0.8	37
65	Physics and human rights: Reflections on the past and the present. Physik Journal, 2000, 56, 51-54.	0.1	1
66	Ionization of a model atom by perturbations of the potential. Journal of Mathematical Physics, 2000, 41, 3511-3522.	0.5	9
67	Statistical properties of contact maps. Physical Review E, 1999, 59, 977-984.	0.8	36
68	Critical droplets in metastable states of probabilistic cellular automata. Physical Review E, 1999, 59, 3935-3941.	0.8	24
69	Microscopic origins of irreversible macroscopic behavior. Physica A: Statistical Mechanics and Its Applications, 1999, 263, 516-527.	1.2	143
70	Modeling of Phase Separation in Alloys with Coherent Elastic Misfit. Journal of Statistical Physics, 1999, 95, 1429-1503.	0.5	223
71	A Gallavotti–Cohen-Type Symmetry in the Large Deviation Functional for Stochastic Dynamics. Journal of Statistical Physics, 1999, 95, 333-365.	0.5	1,201
72	Metastability in the Two-Dimensional Ising Model with Free Boundary Conditions. Journal of Statistical Physics, 1998, 90, 211-226.	0.5	35

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73	Exact Large Deviation Function in the Asymmetric Exclusion Process. Physical Review Letters, 1998, 80, 209-213.	2.9	285
74	Hydrodynamical equation for electron swarms. Journal of Plasma Physics, 1998, 60, 861-868.	0.7	3
75	Phase-separation kinetics in a model with order-parameter-dependent mobility. Physical Review E, 1997, 56, 758-765.	0.8	69
76	The Micro-Canonical Point Vortex Ensemble: Beyond Equivalence. Letters in Mathematical Physics, 1997, 42, 43-56.	0.5	92
77	Phase segregation dynamics in particle systems with long range interactions. I. Macroscopic limits. Journal of Statistical Physics, 1997, 87, 37-61.	0.5	234
78	Time's arrow and archimedes' point. Journal of Statistical Physics, 1997, 87, 463-468.	0.5	0
79	Hydrodynamics and fluctuations outside of local equilibrium: Driven diffusive systems. Journal of Statistical Physics, 1996, 83, 385-472.	0.5	101
80	Current–voltage characteristic of a partially ionized plasma in cylindrical geometry. Physics of Plasmas, 1996, 3, 4229-4238.	0.7	2
81	Gaussian Fluctuation in Random Matrices. Physical Review Letters, 1995, 75, 69-72.	2.9	162
82	LONG RANGE ORDER IN THE FALICOV-KIMBALL MODEL: EXTENSION OF KENNEDY–LIEB THEOREM. Reviews in Mathematical Physics, 1994, 06, 927-946.	0.7	15
83	Long Range Order in the Falicov-Kimball Model Near the Symmetry Point: Extension of Kennedy - Lieb Theorem. Advanced Series in Mathematical Physics, 1994, , 81-105.	0.0	0
84	Dissipative stationary plasmas: Kinetic modeling, Bennett's pinch and generalizations. Physics of Plasmas, 1994, 1, 1841-1849.	0.7	28
85	Energy-level statistics of model quantum systems: Universality and scaling in a lattice-point problem. Journal of Statistical Physics, 1994, 74, 167-217.	0.5	20
86	Low-temperature phases of itinerant fermions interacting with classical phonons: The static Holstein model. Journal of Statistical Physics, 1994, 76, 91-123.	0.5	17
87	Distribution of the error term for the number of lattice points inside a shifted circle. Communications in Mathematical Physics, 1993, 154, 433-469.	1.0	66
88	Boltzmann's Entropy and Time's Arrow. Physics Today, 1993, 46, 32-38.	0.3	342
89	Lattice gas models in contact with stochastic reservoirs: Local equilibrium and relaxation to the steady state. Communications in Mathematical Physics, 1991, 140, 119-131.	1.0	56
90	Spatial structure in diffusion-limited two-particle reactions. Journal of Statistical Physics, 1991, 65, 941-951.	0.5	45

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91	Statistics of energy levels in integrable quantum systems. Physical Review A, 1991, 44, R3399-R3402.	1.0	21
92	Line shifts and broadenings in polarizable liquids. Journal of Chemical Physics, 1989, 91, 340-349.	1.2	39
93	Computer simulation of driven diffusive systems with exchanges. Journal of Statistical Physics, 1989, 56, 783-819.	0.5	28
94	Program of the 61st semiannual Statistical Mechanics Meeting. Journal of Statistical Physics, 1989, 56, 977-983.	0.5	0
95	Program of the 59th Statistical Mechanics Meeting. Journal of Statistical Physics, 1989, 54, 1103-1108.	0.5	0
96	Statistical mechanics of the nonlinear Schrï¿½dinger equation. II. Mean field approximation. Journal of Statistical Physics, 1989, 54, 17-56.	0.5	18
97	On the positivity of correlations in nonequilibrium spin systems. Journal of Statistical Physics, 1988, 53, 295-305.	0.5	10
98	Statistical mechanics of the nonlinear Schrï¿½dinger equation. Journal of Statistical Physics, 1988, 50, 657-687.	0.5	184
99	Percolation in strongly correlated systems: The massless Gaussian field. Journal of Statistical Physics, 1987, 48, 1249-1268.	0.5	55
100	The effect of an external field on an interface, entropic repulsion. Journal of Statistical Physics, 1987, 46, 39-49.	0.5	43
101	Asymptotic motion of a classical particle in a random potential in two dimensions: Landau model. Communications in Mathematical Physics, 1987, 113, 209-230.	1.0	44
102	Limitations on the usefulness of the angular median and related potentials. Molecular Physics, 1986, 58, 131-144.	0.8	6
103	Nonequilibrium steady states of stochastic lattice gas models of fast ionic conductors. Journal of Statistical Physics, 1984, 34, 497-537.	0.5	491
104	The structure of Gibbs states and phase coexistence for non-symmetric continuum Widom Rowlinson models. Zeitschrift Fï¿½r Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1984, 67, 121-138.	0.8	33
105	Surface tension and phase coexistence for general lattice systems. Journal of Statistical Physics, 1983, 33, 59-75.	0.5	13
106	Stochastic processes originating in deterministic microscopic dynamics. Journal of Statistical Physics, 1983, 30, 519-526.	0.5	18
107	Correlation functions for nematic liquid crystals. Molecular Physics, 1983, 50, 1207-1214.	0.8	59
108	Charge fluctuations in Coulomb systems. Physical Review A, 1983, 27, 1491-1494.	1.0	53

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109	MICROSCOPIC DYNAMICS AND MACROSCOPIC LAWS. Annals of the New York Academy of Sciences, 1981, 373, 220-233.	1.8	9
110	Lattice systems with a continuous symmetry. Communications in Mathematical Physics, 1981, 78, 363-371.	1.0	26
111	Statistical mechanics of systems of unbounded spins. Communications in Mathematical Physics, 1980, 78, 151-151.	1.0	7
112	Lattice systems with a continuous symmetry. Communications in Mathematical Physics, 1980, 78, 281-302.	1.0	24
113	The mean spherical approximation for a Yukawa fluid interacting with a hard planar wall with an exponential tail. Molecular Physics, 1980, 39, 47-50.	0.8	18
114	Conditional equilibrium and the equivalence of microcanonical and grandcanonical ensembles in the thermodynamic limit. Communications in Mathematical Physics, 1978, 62, 279-302.	1.0	26
115	Equation of state of a hard-core fluid with a Yukawa tail. Molecular Physics, 1978, 35, 241-255.	0.8	108
116	Stationary non-equilibrium states of infinite harmonic systems. Communications in Mathematical Physics, 1977, 54, 97-120.	1.0	168
117	Time evolution of infinite anharmonic systems. Journal of Statistical Physics, 1977, 16, 453-461.	0.5	50
118	Coexistence of phases in Ising ferromagnets. Journal of Statistical Physics, 1977, 16, 463-476.	0.5	87
119	On the stability of equilibrium states of finite classical systems. Journal of Mathematical Physics, 1975, 16, 1284-1287.	0.5	15
120	GHS and other inequalities. Communications in Mathematical Physics, 1974, 35, 87-92.	1.0	172
121	Time Symmetry in the Quantum Process of Measurement. Physical Review, 1964, 134, B1410-B1416.	2.7	694
122	Irreversible gibbsian ensembles. Annals of Physics, 1957, 1, 1-23.	1.0	203
123	New Approach to Nonequilibrium Processes. Physical Review, 1955, 99, 578-587.	2.7	216
124	Moment Singularity Analysis of Vibration Spectra. Physical Review, 1954, 96, 594-598.	2.7	23