

Chandan Dasgupta

List of Publications by Year in Descending Order

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

186
papers

5,382
citations

38
h-index

68
g-index

189
ext. papers

5,805
ext. citations

4.5
avg, IF

5.67
L-index

#	Paper	IF	Citations
186	Thermodynamics and its correlation with dynamics in a mean-field model and pinned systems: A comparative study using two different methods of entropy calculation.. <i>Journal of Chemical Physics</i> , 2022 , 156, 014503	3.9	0
185	Diameter Dependent Melting and Softening of dsDNA Under Cylindrical Confinement.. <i>Frontiers in Chemistry</i> , 2022 , 10, 879746	5	0
184	Dense Active Matter 2022 , 517-526		
183	Heating leads to liquid-crystal and crystalline order in a two-temperature active fluid of rods.. <i>Physical Review E</i> , 2021 , 104, 054610	2.4	1
182	Dimensionality dependence of the Kauzmann temperature: A case study using bulk and confined water. <i>Journal of Chemical Physics</i> , 2021 , 154, 164510	3.9	3
181	Dielectric Profile and Electromelting of a Monolayer of Water Confined in Graphene Slit Pore. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 6670-6680	3.4	3
180	Nonequilibrium phase transition in an Ising model without detailed balance. <i>Physical Review E</i> , 2020 , 102, 052111	2.4	1
179	Colloidal crystallites under external oscillation. <i>Soft Matter</i> , 2020 , 16, 5770-5776	3.6	1
178	Aging effects on thermal conductivity of glass-forming liquids. <i>Physical Review E</i> , 2020 , 101, 022125	2.4	0
177	Time Scales of Fickian Diffusion and the Lifetime of Dynamic Heterogeneity. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	4
176	Complex dynamics of a sheared nematic fluid. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 134002	1.8	0
175	Extreme active matter at high densities. <i>Nature Communications</i> , 2020 , 11, 2581	17.4	25
174	Scalar activity induced phase separation and liquid-solid transition in a Lennard-Jones system. <i>Soft Matter</i> , 2019 , 15, 7275-7285	3.6	9
173	A comparative study of a class of mean field theories of the glass transition. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019 , 2019, 084008	1.9	5
172	Translocation of Bioactive Molecules through Carbon Nanotubes Embedded in the Lipid Membrane. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6168-6179	9.5	30
171	A random first-order transition theory for an active glass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 7688-7693	11.5	41
170	High temperature superconductivity in the cuprates: Materials, phenomena and a mechanism 2018 ,		2

169	Influence of surface commensurability on the structure and relaxation dynamics of a confined monatomic fluid. <i>Journal of Chemical Physics</i> , 2018 , 149, 064503	3.9	9
168	Glass Transition in Supercooled Liquids with Medium-Range Crystalline Order. <i>Physical Review Letters</i> , 2018 , 121, 085703	7.4	21
167	Analysis of vibrational normal modes for Coulomb clusters. <i>Physical Review E</i> , 2018 , 98,	2.4	3
166	Phase Transition in Monolayer Water Confined in Janus Nanopore. <i>Langmuir</i> , 2018 , 34, 12199-12205	4	16
165	Superfluid field response to edge dislocation motion. <i>Physical Review B</i> , 2017 , 95,	3.3	1
164	Confined Water: Structure, Dynamics, and Thermodynamics. <i>Accounts of Chemical Research</i> , 2017 , 50, 2139-2146	24.3	110
163	Glassy swirls of active dumbbells. <i>Physical Review E</i> , 2017 , 96, 042605	2.4	15
162	Block Analysis for the Calculation of Dynamic and Static Length Scales in Glass-Forming Liquids. <i>Physical Review Letters</i> , 2017 , 119, 205502	7.4	12
161	Dislocation Mobility and Anomalous Shear Modulus Effect in (⁴ He) Crystals. <i>Journal of Low Temperature Physics</i> , 2017 , 186, 259-274	1.3	1
160	Role of the Pair Correlation Function in the Dynamical Transition Predicted by Mode Coupling Theory. <i>Physical Review Letters</i> , 2017 , 119, 265502	7.4	14
159	Short-Time Beta Relaxation in Glass-Forming Liquids Is Cooperative in Nature. <i>Physical Review Letters</i> , 2016 , 116, 085701	7.4	45
158	Length scales in glass-forming liquids and related systems: a review. <i>Reports on Progress in Physics</i> , 2016 , 79, 016601	14.4	43
157	Smectic A Liquid Crystals: Continuum Theory 2016 ,		
156	Active fluidization in dense glassy systems. <i>Soft Matter</i> , 2016 , 12, 6268-76	3.6	50
155	Understanding the dynamics of glass-forming liquids with random pinning within the random first order transition theory. <i>Journal of Chemical Physics</i> , 2016 , 145, 034507	3.9	15
154	Role of Entropy in the Expulsion of Dopants from Optically Trapped Colloidal Assemblies. <i>Physical Review Letters</i> , 2016 , 117, 258002	7.4	5
153	Role of density modulation in the spatially resolved dynamics of strongly confined liquids. <i>Journal of Chemical Physics</i> , 2016 , 145, 054707	3.9	10
152	Driving force of water entry into hydrophobic channels of carbon nanotubes: entropy or energy?. <i>Molecular Simulation</i> , 2015 , 41, 504-511	2	17

151	Effects of Patterned Substrate on Thin Films Simulated by Family Model. <i>Journal of Statistical Physics</i> , 2015 , 160, 397-408	1.5	1
150	Vanishing of configurational entropy may not imply an ideal glass transition in randomly pinned liquids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E4819-20	11.5	12
149	Structure, dynamics and thermodynamics of single-file water under confinement: effects of polarizability of water molecules. <i>RSC Advances</i> , 2015 , 5, 1893-1901	3.7	21
148	Tunable mechanical and thermal properties of ZnS/CdS core/shell nanowires. <i>Physical Review B</i> , 2015 , 91,	3.3	5
147	Spatial modulation of the composition of a binary liquid near a repulsive wall. <i>Physical Review E</i> , 2015 , 91, 052406	2.4	4
146	Suspensions of polymer-grafted nanoparticles with added polymers-Structure and effective pair-interactions. <i>Journal of Chemical Physics</i> , 2015 , 143, 084902	3.9	4
145	Dynamics of Glass Forming Liquids with Randomly Pinned Particles. <i>Scientific Reports</i> , 2015 , 5, 12577	4.9	30
144	Bulk-Induced 1/f Noise at the Surface of Three-Dimensional Topological Insulators. <i>ACS Nano</i> , 2015 , 9, 12529-36	16.7	23
143	Kinetics of phase separation in polymer mixtures: a molecular dynamics study. <i>Journal of Chemical Physics</i> , 2014 , 140, 244906	3.9	10
142	Nature of the effective interaction between dendrimers. <i>Journal of Chemical Physics</i> , 2014 , 141, 144901	3.9	16
141	Ising model on a random network with annealed or quenched disorder. <i>Physical Review B</i> , 2014 , 90,	3.3	11
140	Hydrodynamics of compressible superfluids in confined geometries. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014 , 47, 055301	1.3	
139	Healing time for the growth of thin films on patterned substrates. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014 , 407, 160-174	3.3	1
138	Growing Length Scales and Their Relation to Timescales in Glass-Forming Liquids. <i>Annual Review of Condensed Matter Physics</i> , 2014 , 5, 255-284	19.7	95
137	Breakdown of the Stokes-Einstein relation in two, three, and four dimensions. <i>Journal of Chemical Physics</i> , 2013 , 138, 12A548	3.9	88
136	Engineering Gold Nanoparticle Interaction by PAMAM Dendrimer. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 13627-13636	3.8	40
135	Out of equilibrium plasticity dynamics and the annealing of supersolidity in solid He. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 295601	1.8	
134	Effects of initial height on the steady-state persistence probability of linear growth models. <i>Physical Review E</i> , 2013 , 88, 062402	2.4	2

133	Growth kinetics of nanoclusters in solution. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 4519-23	3.4	5
132	Mechanical properties of ZnS nanowires and thin films: Microscopic origin of the dependence on size and growth direction. <i>Physical Review B</i> , 2012 , 86,	3.3	12
131	Adam-Gibbs relation for glass-forming liquids in two, three, and four dimensions. <i>Physical Review Letters</i> , 2012 , 109, 095705	7.4	35
130	Characterization of the dynamics of glass-forming liquids from the properties of the potential energy landscape. <i>Physical Review E</i> , 2012 , 85, 021501	2.4	5
129	Phenomenological Ginzburg-Landau-like theory for superconductivity in the cuprates. <i>Physical Review B</i> , 2011 , 83,	3.3	15
128	Thermodynamics of water entry in hydrophobic channels of carbon nanotubes. <i>Journal of Chemical Physics</i> , 2011 , 134, 124105	3.9	71
127	Effect of pairing fluctuations on low-energy electronic spectra in cuprate superconductors. <i>Physical Review B</i> , 2011 , 84,	3.3	14
126	Comment on "Scaling analysis of dynamic heterogeneity in a supercooled Lennard-Jones liquid". <i>Physical Review Letters</i> , 2010 , 105, 019801	7.4	15
125	Nonclassical rotational inertia in a two-dimensional bosonic solid containing grain boundaries. <i>Physical Review B</i> , 2010 , 82,	3.3	4
124	Analysis of dynamic heterogeneity in a glass former from the spatial correlations of mobility. <i>Physical Review Letters</i> , 2010 , 105, 015701	7.4	47
123	Single-file diffusion of water inside narrow carbon nanorings. <i>ACS Nano</i> , 2010 , 4, 985-91	16.7	60
122	Banded spatiotemporal chaos in sheared nematogenic fluids. <i>Physical Review E</i> , 2010 , 82, 065301	2.4	4
121	Reply to Comment by Valiullin and Klinger on Our Paper Single-File Diffusion of Confined Water Inside SWNTs: An NMR Study. <i>ACS Nano</i> , 2010 , 4, 3537-3538	16.7	3
120	Single-file diffusion of confined water inside SWNTs: an NMR study. <i>ACS Nano</i> , 2010 , 4, 1687-95	16.7	79
119	Hydrodynamics of superfluids confined in blocked rings and wedges. <i>Physical Review E</i> , 2009 , 79, 016303	2.4	3
118	Phase diagram of vortex matter in layered superconductors with tilted columnar pinning centers. <i>Physical Review B</i> , 2009 , 80,	3.3	2
117	Growing length and time scales in glass-forming liquids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 3675-9	11.5	214
116	Jump reorientation of water molecules confined in narrow carbon nanotubes. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 10322-30	3.4	34

115	Reorientation of water inside carbon nanorings by large angular jumps. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 5303-6	1.3	2
114	Strongly anisotropic orientational relaxation of water molecules in narrow carbon nanotubes and nanorings. <i>ACS Nano</i> , 2008 , 2, 1189-96	16.7	39
113	Signatures of dynamical heterogeneity in the structure of glassy free-energy minima. <i>Physical Review Letters</i> , 2008 , 100, 125701	7.4	12
112	Persistence and survival in equilibrium step fluctuations. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007 , 2007, P07011-P07011	1.9	9
111	Structure and dynamics of confined water inside narrow carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 1796-9	1.3	10
110	Strong correlations and Fickian water diffusion in narrow carbon nanotubes. <i>Journal of Chemical Physics</i> , 2007 , 126, 124704	3.9	83
109	Phase diagram of randomly pinned vortex matter in layered superconductors: Dependence on the details of the point pinning. <i>Physical Review B</i> , 2007 , 76,	3.3	7
108	Intergranular magnetoresistance in Sr ₂ FeMoO ₆ from a magnetic tunnel barrier mechanism across grain boundaries. <i>Physical Review Letters</i> , 2007 , 98, 157205	7.4	113
107	Generalized survival in step fluctuations. <i>Physical Review E</i> , 2007 , 76, 021601	2.4	2
106	Growth mechanism of nanocrystals in solution: ZnO, a case study. <i>Physical Review Letters</i> , 2007 , 98, 255501	7.4	105
105	Spatial survival probability for one-dimensional fluctuating interfaces in the steady state. <i>Physical Review E</i> , 2006 , 73, 011602	2.4	22
104	Rheological Chaos in Wormlike Micelles and Nematic Hydrodynamics 2006 , 193-221		2
103	Phase diagram of vortex matter in layered high-temperature superconductors with random point pinning. <i>Physical Review B</i> , 2006 , 74,	3.3	6
102	Computational modeling of the dependence of kindling rate on network properties. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006 , 364, 565-580	3.3	1
101	Equilibrium glassy phase in a polydisperse hard-sphere system. <i>Physical Review Letters</i> , 2005 , 95, 248301	7.4	44
100	Theoretical approaches to the glass transition in simple liquids 2005 , 64, 679-694		8
99	Correlation time for step structural fluctuations. <i>Physical Review B</i> , 2005 , 71,	3.3	26
98	Routes to spatiotemporal chaos in the rheology of nematogenic fluids. <i>Physical Review E</i> , 2005 , 71, 021707	7.4	37

97	Laser-induced reentrant freezing in two-dimensional attractive colloidal systems. <i>Physical Review E</i> , 2005 , 72, 061404	2.4	11
96	Interplay of instabilities in mounded surface growth. <i>Physical Review E</i> , 2005 , 71, 020601	2.4	1
95	Phase diagram of the vortex system in layered superconductors with strong columnar pinning. <i>Physical Review B</i> , 2005 , 72,	3.3	12
94	Sampling-time effects for persistence and survival in step structural fluctuations. <i>Physical Review E</i> , 2005 , 71, 021602	2.4	15
93	Melting and structure of the vortex solid in strongly anisotropic layered superconductors with random columnar pins. <i>Physical Review B</i> , 2004 , 69,	3.3	14
92	Spatial persistence and survival probabilities for fluctuating interfaces. <i>Physical Review E</i> , 2004 , 69, 051602	2.4	13
91	Spatiotemporal rheochaos in nematic hydrodynamics. <i>Physical Review Letters</i> , 2004 , 92, 055501	7.4	51
90	Persistence in nonequilibrium surface growth. <i>Physical Review E</i> , 2004 , 69, 061608	2.4	40
89	Survival in equilibrium step fluctuations. <i>Physical Review E</i> , 2004 , 69, 022101	2.4	20
88	Mound formation and coarsening from a nonlinear instability in surface growth. <i>Physical Review E</i> , 2004 , 69, 011601	2.4	7
87	Nonequilibrium phase transition in surface growth. <i>Europhysics Letters</i> , 2003 , 61, 547-553	1.6	4
86	Comment on "Classical density functional theory of freezing in simple fluids: numerically induced false solutions". <i>Physical Review E</i> , 2003 , 67, 063501; author reply 063502	2.4	3
85	Structure and magnetization of two-dimensional vortex arrays in the presence of periodic pinning. <i>Physical Review B</i> , 2003 , 67,	3.3	4
84	Two-step melting of the vortex solid in layered superconductors with random columnar pins. <i>Physical Review Letters</i> , 2003 , 91, 127002	7.4	31
83	Infinite family of persistence exponents for interface fluctuations. <i>Physical Review Letters</i> , 2003 , 91, 086103	7.4	23
82	Glassy behavior in neural network models of associative memory. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002 , 315, 137-149	3.3	1
81	Understanding glassy dynamics from the free-energy landscape. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002 , 315, 299-301	3.3	1
80	Neural network model for apparent deterministic chaos in spontaneously bursting hippocampal slices. <i>Physical Review Letters</i> , 2002 , 88, 088102	7.4	10

79	Continuous melting of a partially pinned two-dimensional vortex lattice in a square array of pinning centers. <i>Physical Review B</i> , 2002 , 66,	3.3	4
78	Stochastic neural network model for spontaneous bursting in hippocampal slices. <i>Physical Review E</i> , 2002 , 66, 051908	2.4	6
77	Experimental persistence probability for fluctuating steps. <i>Physical Review Letters</i> , 2002 , 89, 136102	7.4	54
76	Vortices in layered superconductors with columnar pins: A density-functional study. <i>Physical Review B</i> , 2002 , 66,	3.3	17
75	Vortex lattice melting in layered superconductors with periodic columnar pins. <i>Physical Review Letters</i> , 2001 , 87, 257002	7.4	8
74	Smectic A Liquid Crystals: Continuum Theory 2001 , 8655-8664		
73	Retrieval properties of a Hopfield model with random asymmetric interactions. <i>Neural Computation</i> , 2000 , 12, 865-80	2.9	8
72	Phase diagram of a classical fluid in a quenched random potential. <i>Europhysics Letters</i> , 2000 , 50, 54-60	1.6	19
71	Free-energy landscape of simple liquids near the glass transition. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 6553-6562	1.8	14
70	Phase diagram of a hard-sphere system in a quenched random potential: A numerical study. <i>Physical Review E</i> , 2000 , 62, 3648-58	2.4	11
69	Triangular Ising antiferromagnet in a staggered field. <i>Physical Review B</i> , 2000 , 61, 6227-6237	3.3	20
68	Equilibrium and dynamical properties of the axial next-nearest-neighbor Ising chain at the multiphase point. <i>Physical Review E</i> , 2000 , 62, 1592-600	2.4	
67	Free energy landscape of a dense hard-sphere system. <i>Physical Review E</i> , 1999 , 59, 3123-3134	2.4	32
66	Muon-spin rotation spectra in the mixed phase of high-T _c superconductors: Thermal fluctuations and disorder effects. <i>Physical Review B</i> , 1999 , 60, 7607-7622	3.3	13
65	Multiscaling in discrete models of epitaxial growth. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 270, 135-142	3.3	4
64	Structure and magnetization of a two-dimensional vortex liquid in the presence of strong pinning. <i>Physical Review B</i> , 1998 , 57, 11730-11737	3.3	11
63	Entropic origin of the growth of relaxation times in simple glassy liquids. <i>Physical Review E</i> , 1998 , 58, 801-804	2.4	14
62	Extended self-similarity in kinetic surface roughening. <i>Physical Review E</i> , 1998 , 57, R3703-R3706	2.4	12

61	On the problem of spurious patterns in neural associative memory models. <i>IEEE Transactions on Neural Networks</i> , 1997 , 8, 1483-91		14
60	Glass transition in the hard sphere system 1997 , 100-110		
59	Instability, intermittency, and multiscaling in discrete growth models of kinetic roughening. <i>Physical Review E</i> , 1997 , 55, 2235-2254	2.4	61
58	Domain-Wall Scaling Study of the Structural Glass Transition. <i>Physical Review Letters</i> , 1996 , 77, 1310-1313	3.4	13
57	Controlled instability and multiscaling in models of epitaxial growth. <i>Physical Review E</i> , 1996 , 54, R4552-R4555	4.5	52
56	Density-functional theory of flux-lattice melting in high-Tc superconductors. <i>Physical Review B</i> , 1996 , 54, 16192-16205	3.3	37
55	Time scales for transitions between free-energy minima of a dense hard-sphere system. <i>Physical Review E</i> , 1996 , 53, 2603-2612	2.4	21
54	A NEURAL NETWORK MODEL FOR KINDLING OF FOCAL EPILEPSY. <i>Progress in Neural Processing</i> , 1996 , 347-375		1
53	Fixed points in a Hopfield model with random asymmetric interactions. <i>Physical Review E</i> , 1995 , 52, 5261-5272	5.2	10
52	Numerical studies of langevin equations for the dynamics of a dense hard sphere fluid. <i>Transport Theory and Statistical Physics</i> , 1995 , 24, 1199-1225		7
51	NUMERICAL STUDIES OF PHASE TRANSITIONS AND CRITICAL PHENOMENA IN LIQUID CRYSTALS. <i>International Journal of Modern Physics B</i> , 1995 , 09, 2219-2245	1.1	2
50	Langevin simulation of the dynamics of a dense hard sphere liquid. <i>Phase Transitions</i> , 1994 , 50, 47-61	1.3	5
49	Effects of pinning disorder on the correlations and freezing of the flux liquid in layered superconductors. <i>Physical Review Letters</i> , 1994 , 73, 1023-1026	7.4	47
48	Two distinct time scales in the dynamics of a dense hard-sphere liquid. <i>Physical Review E</i> , 1994 , 50, 3916-3924	3.4	15
47	Statistical mechanics of flux lines in oxide superconductors. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994 , 205, 140-153	3.3	
46	Nonlinear hydrodynamics of a hard-sphere fluid near the glass transition. <i>Physical Review E</i> , 1993 , 48, 1787-1798	2.4	36
45	Comment on "Finite-temperature phase transition in metallic spin-glass alloys". <i>Physical Review Letters</i> , 1993 , 70, 3178	7.4	1
44	Phase diagram of the two-dimensional disordered Hubbard model in the Hartree-Fock approximation. <i>Physical Review B</i> , 1993 , 47, 1126-1129	3.3	14

43	Heat-capacity anomalies from four-layer liquid-crystal films: Experimental results and simulation results. <i>Physical Review E</i> , 1993 , 47, 2938-2941	2.4	5
42	A neural network model for kindling of focal epilepsy: basic mechanism. <i>Biological Cybernetics</i> , 1993 , 68, 335-40	2.8	13
41	Glass Transition in the Density Functional Theory of Freezing. <i>Europhysics Letters</i> , 1992 , 20, 131-136	1.6	56
40	Neural network modeling of associative memory: Beyond the Hopfield model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992 , 186, 49-60	3.3	1
39	Search for a thermodynamic basis for the glass transition. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992 , 186, 314-326	3.3	29
38	Renormalization Group Studies of Statics and Dynamics of Liquid Crystal Phase Transitions. <i>NATO ASI Series Series B: Physics</i> , 1992 , 97-108		
37	Is There a Growing Correlation Length near the Glass Transition?. <i>Europhysics Letters</i> , 1991 , 15, 467-467	1.6	8
36	Flux pinning and creep in high-T _c superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 183, 62-66	1.3	3
35	Hierarchical neural networks for the storage of correlated memories. <i>Journal of Statistical Physics</i> , 1991 , 64, 755-779	1.5	4
34	Is There a Growing Correlation Length near the Glass Transition?. <i>Europhysics Letters</i> , 1991 , 15, 307-312	1.6	151
33	A neural network for storing individual patterns in limit cycles. <i>Journal of Physics A</i> , 1991 , 24, 5105-5119		4
32	Freezing of the vortex liquid in high-T _c superconductors: A density-functional approach. <i>Physical Review Letters</i> , 1991 , 67, 3444-3447	7.4	83
31	Variational calculation for the spin-(1/2 Heisenberg antiferromagnet on a square lattice. <i>Physical Review B</i> , 1989 , 39, 386-391	3.3	10
30	Numerical investigation of the role of topological defects in the three-dimensional Heisenberg transition. <i>Physical Review B</i> , 1989 , 39, 7212-7222	3.3	65
29	Domain growth in the field-theoretic version of the Potts model. <i>Physical Review B</i> , 1988 , 38, 9024-9030	3.3	14
28	Phase transition in positionally disordered Josephson-junction arrays in a transverse magnetic field. <i>Physical Review B</i> , 1988 , 37, 7557-7563	3.3	38
27	Role of topological defects in the phase transition of the three-dimensional Heisenberg model. <i>Journal of Physics A</i> , 1988 , 21, L51-L57		19
26	A Monte Carlo study of realistic models of metallic spin glasses. <i>Journal of Physics C: Solid State Physics</i> , 1988 , 21, 1613-1630		6

25	Critical behavior of the n-vector model for 1. <i>Physical Review B</i> , 1987 , 35, 329-332	3.3	5
24	Anisotropy-induced phase transition in metallic spin-glass alloys. <i>Physical Review B</i> , 1987 , 36, 793-796	3.3	9
23	Testing approximate theories of first-order phase transitions on the two-dimensional Potts model. <i>Journal of Statistical Physics</i> , 1987 , 47, 375-396	1.5	4
22	Critical behaviour of a lattice model of the nematic to smectic-A transition. <i>Journal De Physique</i> , 1987 , 48, 957-970		17
21	Phase Transition in Metallic Spin Glasses 1987 , 9-18		
20	Phase transition in the Ruderman-Kittel-Kasuya-Yosida model of spin-glass. <i>Physical Review Letters</i> , 1986 , 56, 1404-1407	7.4	54
19	Kinetics of domain growth: The relevance of two-step quenches. <i>Physical Review B</i> , 1986 , 33, 4752-4757	3.3	9
18	Monte Carlo study of the nematic-to-smectic-A transition. <i>Physical Review Letters</i> , 1985 , 55, 1771-1774	7.4	15
17	Macroscopic anisotropy in transition-metal spin-glass alloys. <i>Physical Review B</i> , 1984 , 29, 4071-4078	3.3	15
16	Equivalence of statistical-mechanical and dynamic descriptions of the infinite-range Ising spin-glass. <i>Physical Review B</i> , 1983 , 27, 4511-4514	3.3	24
15	Duality maps for a lattice model of the smectic-A-nematic transition. <i>Physical Review A</i> , 1983 , 27, 1262-1265	6.5	17
14	Percolation and related systems in equilibrium statistical mechanics. <i>Lecture Notes in Mathematics</i> , 1983 , 260-282	0.4	2
13	Phase Transition in a Lattice Model of Superconductivity. <i>Physical Review Letters</i> , 1981 , 47, 1556-1560	7.4	541
12	Real-space renormalisation-group study of the one-dimensional Hubbard model. <i>Journal of Physics C: Solid State Physics</i> , 1981 , 14, 717-735		50
11	Absence of crystalline order in two dimensions. <i>Physical Review B</i> , 1980 , 22, 369-372	3.3	10
10	Low-temperature properties of the random Heisenberg antiferromagnetic chain. <i>Physical Review B</i> , 1980 , 22, 1305-1319	3.3	401
9	Random Antiferromagnetic Chain. <i>Physical Review Letters</i> , 1979 , 43, 1434-1437	7.4	339
8	Random Antiferromagnetic Chain.. <i>Physical Review Letters</i> , 1979 , 43, 1899-1899	7.4	3

- 7 Dynamic properties of a spin-glass model at low temperatures. *Physical Review B*, **1979**, 20, 3837-3849 3:3 97
- 6 Statistics of trees and branched polymers from a generalised Hilhorst model. *Journal of Physics A*, **1978**, 11, 2219-2236 4
- 5 Renormalization-group treatment of the random resistor network in 6 dimensions. *Physical Review B*, **1978**, 17, 1375-1382 3:3 45
- 4 Renormalization-group study of the Ashkin-Teller-Potts model in two dimensions. *Physical Review B*, **1977**, 15, 3460-3464 3:3 45
- 3 Renormalization-group calculation of the critical exponents for percolation. *Physical Review B*, **1976**, 14, 1221-1224 3:3 39
- 2 Renormalization-Group Approach to Percolation Problems. *Physical Review Letters*, **1975**, 35, 327-330 7:4 228
- 1 Renormalization-Group Approach to Percolation Problems.. *Physical Review Letters*, **1975**, 35, 1397-1397 7:4 31