

Chandan Dasgupta

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2539181/chandan-dasgupta-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Phase Transition in a Lattice Model of Superconductivity. <i>Physical Review Letters</i> , 1981 , 47, 1556-1560	7.4	541
185	Low-temperature properties of the random Heisenberg antiferromagnetic chain. <i>Physical Review B</i> , 1980 , 22, 1305-1319	3.3	401
184	Random Antiferromagnetic Chain. <i>Physical Review Letters</i> , 1979 , 43, 1434-1437	7.4	339
183	Renormalization-Group Approach to Percolation Problems. <i>Physical Review Letters</i> , 1975 , 35, 327-330	7.4	228
182	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
181	Is There a Growing Correlation Length near the Glass Transition?. <i>Europhysics Letters</i> , 1991 , 15, 307-312	1.6	151
180	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
179	Confined Water: Structure, Dynamics, and Thermodynamics. <i>Accounts of Chemical Research</i> , 2017 , 50, 2139-2146	24.3	110
178	Growth mechanism of nanocrystals in solution: ZnO, a case study. <i>Physical Review Letters</i> , 2007 , 98, 2555-561	7.4	105
177	Dynamic properties of a spin-glass model at low temperatures. <i>Physical Review B</i> , 1979 , 20, 3837-3849	3.3	97
176	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
175	Breakdown of the Stokes-Einstein relation in two, three, and four dimensions. <i>Journal of Chemical Physics</i> , 2013 , 138, 12A548	3.9	88
174	Strong correlations and Fickian water diffusion in narrow carbon nanotubes. <i>Journal of Chemical Physics</i> , 2007 , 126, 124704	3.9	83
173	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
172	Single-file diffusion of confined water inside SWNTs: an NMR study. <i>ACS Nano</i> , 2010 , 4, 1687-95	16.7	79
171	Thermodynamics of water entry in hydrophobic channels of carbon nanotubes. <i>Journal of Chemical Physics</i> , 2011 , 134, 124105	3.9	71
170	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

169	Instability, intermittency, and multiscaling in discrete growth models of kinetic roughening. <i>Physical Review E</i> , 1997 , 55, 2235-2254	2.4	61
168	Single-file diffusion of water inside narrow carbon nanorings. <i>ACS Nano</i> , 2010 , 4, 985-91	16.7	60
167	Glass Transition in the Density Functional Theory of Freezing. <i>Europhysics Letters</i> , 1992 , 20, 131-136	1.6	56
166	Experimental persistence probability for fluctuating steps. <i>Physical Review Letters</i> , 2002 , 89, 136102	7.4	54
165	Phase transition in the Ruderman-Kittel-Kasuya-Yosida model of spin-glass. <i>Physical Review Letters</i> , 1986 , 56, 1404-1407	7.4	54
164	Controlled instability and multiscaling in models of epitaxial growth. <i>Physical Review E</i> , 1996 , 54, R4552-R4555	7.4	52
163	Spatiotemporal rheochaos in nematic hydrodynamics. <i>Physical Review Letters</i> , 2004 , 92, 055501	7.4	51
162	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
161	Active fluidization in dense glassy systems. <i>Soft Matter</i> , 2016 , 12, 6268-76	3.6	50
160	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
159	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
158	Short-Time Beta Relaxation in Glass-Forming Liquids Is Cooperative in Nature. <i>Physical Review Letters</i> , 2016 , 116, 085701	7.4	45
157	Renormalization-group study of the Ashkin-Teller-Potts model in two dimensions. <i>Physical Review B</i> , 1977 , 15, 3460-3464	3.3	45
156	Renormalization-group treatment of the random resistor network in 6 dimensions. <i>Physical Review B</i> , 1978 , 17, 1375-1382	3.3	45
155	Equilibrium glassy phase in a polydisperse hard-sphere system. <i>Physical Review Letters</i> , 2005 , 95, 248301	7.4	44
154	Length scales in glass-forming liquids and related systems: a review. <i>Reports on Progress in Physics</i> , 2016 , 79, 016601	14.4	43
153	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
152	Engineering Gold Nanoparticle Interaction by PAMAM Dendrimer. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 13627-13636	3.8	40

151	Persistence in nonequilibrium surface growth. <i>Physical Review E</i> , 2004 , 69, 061608	2.4	40
150	Strongly anisotropic orientational relaxation of water molecules in narrow carbon nanotubes and nanorings. <i>ACS Nano</i> , 2008 , 2, 1189-96	16.7	39
149	Renormalization-group calculation of the critical exponents for percolation. <i>Physical Review B</i> , 1976 , 14, 1221-1224	3.3	39
148	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
147	Routes to spatiotemporal chaos in the rheology of nematogenic fluids. <i>Physical Review E</i> , 2005 , 71, 021707	7.4	37
146	Density-functional theory of flux-lattice melting in high-Tc superconductors. <i>Physical Review B</i> , 1996 , 54, 16192-16205	3.3	37
145	Nonlinear hydrodynamics of a hard-sphere fluid near the glass transition. <i>Physical Review E</i> , 1993 , 48, 1787-1798	2.4	36
144	Adam-Gibbs relation for glass-forming liquids in two, three, and four dimensions. <i>Physical Review Letters</i> , 2012 , 109, 095705	7.4	35
143	Jump reorientation of water molecules confined in narrow carbon nanotubes. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 10322-30	3.4	34
142	Free energy landscape of a dense hard-sphere system. <i>Physical Review E</i> , 1999 , 59, 3123-3134	2.4	32
141	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
140	Renormalization-Group Approach to Percolation Problems.. <i>Physical Review Letters</i> , 1975 , 35, 1397-1397	7.4	31
139	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
138	Dynamics of Glass Forming Liquids with Randomly Pinned Particles. <i>Scientific Reports</i> , 2015 , 5, 12577	4.9	30
137	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
136	Correlation time for step structural fluctuations. <i>Physical Review B</i> , 2005 , 71,	3.3	26
135	Extreme active matter at high densities. <i>Nature Communications</i> , 2020 , 11, 2581	17.4	25
134	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

133	Bulk-Induced 1/f Noise at the Surface of Three-Dimensional Topological Insulators. <i>ACS Nano</i> , 2015 , 9, 12529-36	16.7	23
132	Infinite family of persistence exponents for interface fluctuations. <i>Physical Review Letters</i> , 2003 , 91, 086103	1.03	23
131	Spatial survival probability for one-dimensional fluctuating interfaces in the steady state. <i>Physical Review E</i> , 2006 , 73, 011602	2.4	22
130	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
129	Glass Transition in Supercooled Liquids with Medium-Range Crystalline Order. <i>Physical Review Letters</i> , 2018 , 121, 085703	7.4	21
128	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
127	Survival in equilibrium step fluctuations. <i>Physical Review E</i> , 2004 , 69, 022101	2.4	20
126	Triangular Ising antiferromagnet in a staggered field. <i>Physical Review B</i> , 2000 , 61, 6227-6237	3.3	20
125	Phase diagram of a classical fluid in a quenched random potential. <i>Europhysics Letters</i> , 2000 , 50, 54-60	1.6	19
124	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
123	Driving force of water entry into hydrophobic channels of carbon nanotubes: entropy or energy?. <i>Molecular Simulation</i> , 2015 , 41, 504-511	2	17
122	Vortices in layered superconductors with columnar pins: A density-functional study. <i>Physical Review B</i> , 2002 , 66,	3.3	17
121	Duality maps for a lattice model of the smectic-A-nematic transition. <i>Physical Review A</i> , 1983 , 27, 1262-1265	1.65	17
120	Critical behaviour of a lattice model of the nematic to smectic-A transition. <i>Journal De Physique</i> , 1987 , 48, 957-970		17
119	Nature of the effective interaction between dendrimers. <i>Journal of Chemical Physics</i> , 2014 , 141, 144901	3.9	16
118	Phase Transition in Monolayer Water Confined in Janus Nanopore. <i>Langmuir</i> , 2018 , 34, 12199-12205	4	16
117	Glassy swirls of active dumbbells. <i>Physical Review E</i> , 2017 , 96, 042605	2.4	15
116	Phenomenological Ginzburg-Landau-like theory for superconductivity in the cuprates. <i>Physical Review B</i> , 2011 , 83,	3.3	15

115	Comment on "Scaling analysis of dynamic heterogeneity in a supercooled Lennard-Jones liquid". <i>Physical Review Letters</i> , 2010 , 105, 019801	7.4	15
114	Sampling-time effects for persistence and survival in step structural fluctuations. <i>Physical Review E</i> , 2005 , 71, 021602	2.4	15
113	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
112	Macroscopic anisotropy in transition-metal spin-glass alloys. <i>Physical Review B</i> , 1984 , 29, 4071-4078	3.3	15
111	Monte Carlo study of the nematic-to-smectic-A transition. <i>Physical Review Letters</i> , 1985 , 55, 1771-1774	7.4	15
110	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
109	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
108	Effect of pairing fluctuations on low-energy electronic spectra in cuprate superconductors. <i>Physical Review B</i> , 2011 , 84,	3.3	14
107	On the problem of spurious patterns in neural associative memory models. <i>IEEE Transactions on Neural Networks</i> , 1997 , 8, 1483-91		14
106	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
105	Free-energy landscape of simple liquids near the glass transition. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 6553-6562	1.8	14
104	Entropic origin of the growth of relaxation times in simple glassy liquids. <i>Physical Review E</i> , 1998 , 58, 801-804	2.4	14
103	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
102	Domain growth in the field-theoretic version of the Potts model. <i>Physical Review B</i> , 1988 , 38, 9024-9030	3.3	14
101	Spatial persistence and survival probabilities for fluctuating interfaces. <i>Physical Review E</i> , 2004 , 69, 051602	3.4	13
100	Muon-spin rotation spectra in the mixed phase of high-Tc superconductors: Thermal fluctuations and disorder effects. <i>Physical Review B</i> , 1999 , 60, 7607-7622	3.3	13
99	Domain-Wall Scaling Study of the Structural Glass Transition. <i>Physical Review Letters</i> , 1996 , 77, 1310-1313	3.4	13
98	A neural network model for kindling of focal epilepsy: basic mechanism. <i>Biological Cybernetics</i> , 1993 , 68, 335-40	2.8	13

97	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
96	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
95	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
94	Signatures of dynamical heterogeneity in the structure of glassy free-energy minima. <i>Physical Review Letters</i> , 2008 , 100, 125701	7.4	12
93	Phase diagram of the vortex system in layered superconductors with strong columnar pinning. <i>Physical Review B</i> , 2005 , 72,	3.3	12
92	Extended self-similarity in kinetic surface roughening. <i>Physical Review E</i> , 1998 , 57, R3703-R3706	2.4	12
91	Ising model on a random network with annealed or quenched disorder. <i>Physical Review B</i> , 2014 , 90,	3.3	11
90	Laser-induced reentrant freezing in two-dimensional attractive colloidal systems. <i>Physical Review E</i> , 2005 , 72, 061404	2.4	11
89	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
88	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
87	Kinetics of phase separation in polymer mixtures: a molecular dynamics study. <i>Journal of Chemical Physics</i> , 2014 , 140, 244906	3.9	10
86	Structure and dynamics of confined water inside narrow carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 1796-9	1.3	10
85	Neural network model for apparent deterministic chaos in spontaneously bursting hippocampal slices. <i>Physical Review Letters</i> , 2002 , 88, 088102	7.4	10
84	Fixed points in a Hopfield model with random asymmetric interactions. <i>Physical Review E</i> , 1995 , 52, 5261-5272	2.7	10
83	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
82	Absence of crystalline order in two dimensions. <i>Physical Review B</i> , 1980 , 22, 369-372	3.3	10
81	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
80	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

79	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
78	Persistence and survival in equilibrium step fluctuations. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007 , 2007, P07011-P07011	1.9	9
77	Kinetics of domain growth: The relevance of two-step quenches. <i>Physical Review B</i> , 1986 , 33, 4752-4757	3.3	9
76	Anisotropy-induced phase transition in metallic spin-glass alloys. <i>Physical Review B</i> , 1987 , 36, 793-796	3.3	9
75	Theoretical approaches to the glass transition in simple liquids 2005 , 64, 679-694		8
74	Vortex lattice melting in layered superconductors with periodic columnar pins. <i>Physical Review Letters</i> , 2001 , 87, 257002	7.4	8
73	Retrieval properties of a Hopfield model with random asymmetric interactions. <i>Neural Computation</i> , 2000 , 12, 865-80	2.9	8
72	Is There a Growing Correlation Length near the Glass Transition?. <i>Europhysics Letters</i> , 1991 , 15, 467-467	1.6	8
71	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
70	Mound formation and coarsening from a nonlinear instability in surface growth. <i>Physical Review E</i> , 2004 , 69, 011601	2.4	7
69	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
68	Phase diagram of vortex matter in layered high-temperature superconductors with random point pinning. <i>Physical Review B</i> , 2006 , 74,	3.3	6
67	Stochastic neural network model for spontaneous bursting in hippocampal slices. <i>Physical Review E</i> , 2002 , 66, 051908	2.4	6
66	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
65	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
64	Tunable mechanical and thermal properties of ZnS/CdS core/shell nanowires. <i>Physical Review B</i> , 2015 , 91,	3.3	5
63	Growth kinetics of nanoclusters in solution. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 4519-23	3.4	5
62	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

61	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
60	Langevin simulation of the dynamics of a dense hard sphere liquid. <i>Phase Transitions</i> , 1994 , 50, 47-61	1.3	5
59	Critical behavior of the n-vector model for 1. <i>Physical Review B</i> , 1987 , 35, 329-332	3.3	5
58	Role of Entropy in the Expulsion of Dopants from Optically Trapped Colloidal Assemblies. <i>Physical Review Letters</i> , 2016 , 117, 258002	7.4	5
57	Time Scales of Fickian Diffusion and the Lifetime of Dynamic Heterogeneity. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	4
56	Spatial modulation of the composition of a binary liquid near a repulsive wall. <i>Physical Review E</i> , 2015 , 91, 052406	2.4	4
55	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
54	Nonclassical rotational inertia in a two-dimensional bosonic solid containing grain boundaries. <i>Physical Review B</i> , 2010 , 82,	3.3	4
53	Banded spatiotemporal chaos in sheared nematogenic fluids. <i>Physical Review E</i> , 2010 , 82, 065301	2.4	4
52	Nonequilibrium phase transition in surface growth. <i>Europhysics Letters</i> , 2003 , 61, 547-553	1.6	4
51	Structure and magnetization of two-dimensional vortex arrays in the presence of periodic pinning. <i>Physical Review B</i> , 2003 , 67,	3.3	4
50	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
49	Multiscaling in discrete models of epitaxial growth. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 270, 135-142	3.3	4
48	Hierarchical neural networks for the storage of correlated memories. <i>Journal of Statistical Physics</i> , 1991 , 64, 755-779	1.5	4
47	A neural network for storing individual patterns in limit cycles. <i>Journal of Physics A</i> , 1991 , 24, 5105-5119		4
46	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
45	Statistics of trees and branched polymers from a generalised Hilhorst model. <i>Journal of Physics A</i> , 1978 , 11, 2219-2236		4
44	Reply to Comment by Valiullin and K€oger 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

43	Hydrodynamics of superfluids confined in blocked rings and wedges. <i>Physical Review E</i> , 2009 , 79, 016303.	2.4	3
42	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
41	Flux pinning and creep in high-T _c superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 183, 62-66	1.3	3
40	Random Antiferromagnetic Chain.. <i>Physical Review Letters</i> , 1979 , 43, 1899-1899	7.4	3
39	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
38	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
37	Analysis of vibrational normal modes for Coulomb clusters. <i>Physical Review E</i> , 2018 , 98,	2.4	3
36	High temperature superconductivity in the cuprates: Materials, phenomena and a mechanism 2018 ,		2
35	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
34	Phase diagram of vortex matter in layered superconductors with tilted columnar pinning centers. <i>Physical Review B</i> , 2009 , 80,	3.3	2
33	Reorientation of water inside carbon nanorings by large angular jumps. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 5303-6	1.3	2
32	Generalized survival in step fluctuations. <i>Physical Review E</i> , 2007 , 76, 021601	2.4	2
31	Rheological Chaos in Wormlike Micelles and Nematic Hydrodynamics 2006 , 193-221		2
30	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
29	Percolation and related systems in equilibrium statistical mechanics. <i>Lecture Notes in Mathematics</i> , 1983 , 260-282	0.4	2
28	Superfluid field response to edge dislocation motion. <i>Physical Review B</i> , 2017 , 95,	3.3	1
27	Effects of Patterned Substrate on Thin Films Simulated by Family Model. <i>Journal of Statistical Physics</i> , 2015 , 160, 397-408	1.5	1
26	Nonequilibrium phase transition in an Ising model without detailed balance. <i>Physical Review E</i> , 2020 , 102, 052111	2.4	1

25	Colloidal crystallites under external oscillation. <i>Soft Matter</i> , 2020 , 16, 5770-5776	3.6	1
24	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
23	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
22	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
21	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
20	Understanding glassy dynamics from the free-energy landscape. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002 , 315, 299-301	3.3	1
19	Interplay of instabilities in mounded surface growth. <i>Physical Review E</i> , 2005 , 71, 020601	2.4	1
18	Comment on "Finite-temperature phase transition in metallic spin-glass alloys". <i>Physical Review Letters</i> , 1993 , 70, 3178	7.4	1
17	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
16	A NEURAL NETWORK MODEL FOR KINDLING OF FOCAL EPILEPSY. <i>Progress in Neural Processing</i> , 1996 , 347-375		1
15	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
14	Aging effects on thermal conductivity of glass-forming liquids. <i>Physical Review E</i> , 2020 , 101, 022125	2.4	0
13	Complex dynamics of a sheared nematic fluid. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 134002	1.8	0
12	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
11	Diameter Dependent Melting and Softening of dsDNA Under Cylindrical Confinement.. <i>Frontiers in Chemistry</i> , 2022 , 10, 879746	5	0
10	Hydrodynamics of compressible superfluids in confined geometries. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014 , 47, 055301	1.3	
9	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	
8	Glass transition in the hard sphere system 1997 , 100-110		

- 7 Equilibrium and dynamical properties of the axial next-nearest-neighbor Ising chain at the multiphase point. *Physical Review E*, **2000**, 62, 1592-600 2.4
- 6 Statistical mechanics of flux lines in oxide superconductors. *Physica A: Statistical Mechanics and Its Applications*, **1994**, 205, 140-153 3.3
- 5 Smectic A Liquid Crystals: Continuum Theory **2001**, 8655-8664
- 4 Phase Transition in Metallic Spin Glasses **1987**, 9-18
- 3 Renormalization Group Studies of Statics and Dynamics of Liquid Crystal Phase Transitions. *NATO ASI Series Series B: Physics*, **1992**, 97-108
- 2 Smectic A Liquid Crystals: Continuum Theory **2016**,
- 1 Dense Active Matter **2022**, 517-526