

Subir K Das

List of Publications by Year in descending order

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71
papers

1,513
citations

304602

22
h-index

345118

36
g-index

72
all docs

72
docs citations

72
times ranked

800
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of alignment activity on the collapse kinetics of a flexible polymer. <i>Soft Matter</i> , 2022, 18, 1978-1990.	1.2	8
2	Active particles in explicit solvent: Dynamics of clustering for alignment interaction. <i>Physical Review E</i> , 2022, 105, 014606.	0.8	4
3	Influence of roughening transition on magnetic ordering. <i>Physical Review E</i> , 2022, 105, 044142.	0.8	1
4	How do clusters in phase-separating active matter systems grow? A study for Vicsek activity in systems undergoing vapor-liquid-solid transition. <i>Soft Matter</i> , 2021, 17, 645-654.	1.2	13
5	Should a hotter paramagnet transform quicker to a ferromagnet? Monte Carlo simulation results for Ising model. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 11186-11190.	1.3	19
6	A scaling investigation of pattern in the spread of COVID-19: universality in real data and a predictive analytical description. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021, 477, 20200689.	1.0	4
7	Structure and dynamics in active matter systems. <i>Soft Materials</i> , 2021, 19, 263-266.	0.8	1
8	Relaxation in a phase-separating two-dimensional active matter system with alignment interaction. <i>Journal of Chemical Physics</i> , 2020, 153, 044905.	1.2	9
9	Dependence of cluster growth on the coefficient of restitution in a cooling granular fluid. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	0.8	1
10	Aging exponents for nonequilibrium dynamics following quenches from critical points. <i>Physical Review E</i> , 2020, 101, 062112.	0.8	0
11	Initial correlation dependence of aging in phase separating solid binary mixtures and ordering ferromagnets. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 184005.	0.7	2
12	Kinetics of domain growth and aging in a two-dimensional off-lattice system. <i>Physical Review E</i> , 2020, 102, 062119.	0.8	4
13	Aging phenomena during phase separation in fluids: decay of autocorrelation for vapor-liquid transitions. <i>Soft Matter</i> , 2019, 15, 4743-4750.	1.2	7
14	Finite-size scaling study of aging during coarsening in non-conserved Ising model: The case of zero temperature quench. <i>Journal of Chemical Physics</i> , 2019, 150, 054702.	1.2	11
15	Universal finite-size scaling function for kinetics of phase separation in mixtures with varying number of components. <i>Physical Review E</i> , 2018, 98, .	0.8	13
16	Dimension dependence of clustering dynamics in models of ballistic aggregation and freely cooling granular gas. <i>Physical Review E</i> , 2018, 97, 032902.	0.8	13
17	Do the contact angle and line tension of surface-attached droplets depend on the radius of curvature?. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 255001.	0.7	8
18	Droplet growth during vapor-liquid transition in a 2D Lennard-Jones fluid. <i>Journal of Chemical Physics</i> , 2017, 146, 024503.	1.2	6

#	ARTICLE	IF	CITATIONS
19	Finite-size scaling study of dynamic critical phenomena in a vapor-liquid transition. <i>Journal of Chemical Physics</i> , 2017, 146, 044503.	1.2	11
20	Pattern, growth, and aging in aggregation kinetics of a Vicsek-like active matter model. <i>Journal of Chemical Physics</i> , 2017, 146, 044902.	1.2	20
21	Kinetics of Vapor-Solid Phase Transitions: Structure, Growth, and Mechanism. <i>Physical Review Letters</i> , 2017, 118, 165701.	2.9	26
22	Ballistic aggregation in systems of inelastic particles: Cluster growth, structure, and aging. <i>Physical Review E</i> , 2017, 96, 012105.	0.8	14
23	Kinetics of ferromagnetic ordering in 3D Ising model: how far do we understand the case of a zero temperature quench?. <i>European Physical Journal: Special Topics</i> , 2017, 226, 765-777.	1.2	8
24	Coarsening in 3D nonconserved Ising model at zero temperature: Anomaly in structure and slow relaxation of order-parameter autocorrelation. <i>Europhysics Letters</i> , 2017, 119, 50005.	0.7	3
25	Activity mediated phase separation: Can we understand phase behavior of the nonequilibrium problem from an equilibrium approach?. <i>Journal of Chemical Physics</i> , 2016, 144, 144902.	1.2	33
26	Fractality in persistence decay and domain growth during ferromagnetic ordering: Dependence upon initial correlation. <i>Physical Review E</i> , 2016, 93, 032139.	0.8	14
27	Dimensionality dependence of aging in kinetics of diffusive phase separation: Behavior of order-parameter autocorrelation. <i>Physical Review E</i> , 2015, 92, 022124.	0.8	19
28	Coarsening in fluid phase transitions. <i>Comptes Rendus Physique</i> , 2015, 16, 303-315.	0.3	17
29	Atomistic simulations of liquid-liquid coexistence in confinement: comparison of thermodynamics and kinetics with bulk. <i>Molecular Simulation</i> , 2015, 41, 382-401.	0.9	7
30	Role of initial correlation in coarsening of a ferromagnet. <i>European Physical Journal B</i> , 2015, 88, 1.	0.6	15
31	Dynamics of clustering in freely cooling granular fluid. <i>Europhysics Letters</i> , 2014, 108, 66001.	0.7	8
32	Finite-size scaling study of shear viscosity anomaly at liquid-liquid criticality. <i>Journal of Chemical Physics</i> , 2014, 141, 234502.	1.2	12
33	Aging in ferromagnetic ordering: full decay and finite-size scaling of autocorrelation. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 452202.	0.7	20
34	Phase Behavior of Active Swimmers in Depletants: Molecular Dynamics and Integral Equation Theory. <i>Physical Review Letters</i> , 2014, 112, 198301.	2.9	50
35	Effects of Density Conservation and Hydrodynamics on Aging in Nonequilibrium Processes. <i>Physical Review Letters</i> , 2013, 111, 055503.	2.9	15
36	Temperature and composition dependence of kinetics of phase separation in solid binary mixtures. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13209.	1.3	22

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37	Effects of domain morphology on kinetics of fluid phase separation. Journal of Chemical Physics, 2013, 139, 044911.	1.2	17
38	Dynamics and growth of droplets close to the two-phase coexistence curve in fluids. Soft Matter, 2013, 9, 4178.	1.2	29
39	Unlocking of frozen dynamics in the complex Ginzburg-Landau equation. Physical Review E, 2013, 87, 012135.	0.8	5
40	Hydrodynamic crossovers in surface-directed spinodal decomposition and surface enrichment. Europhysics Letters, 2012, 97, 16005.	0.7	17
41	Finite-size effects in dynamics: Critical vs. coarsening phenomena. Europhysics Letters, 2012, 97, 66006.	0.7	32
42	Spiral dynamics in the complex Ginzburg-Landau equation: Disorder vs. freezing. Europhysics Letters, 2012, 97, 46006.	0.7	5
43	Aging and crossovers in phase-separating fluid mixtures. Physical Review E, 2012, 86, 061129.	0.8	16
44	Crossover in growth laws for phase-separating binary fluids: Molecular dynamics simulations. Physical Review E, 2012, 85, 031140.	0.8	36
45	Nucleation and growth of droplets in vapor-liquid transitions. Physical Review E, 2012, 85, 050602.	0.8	24
46	When Is a Conductor Not Perfect? Sum Rules Fail Under Critical Fluctuations. Physical Review Letters, 2011, 107, 215701.	2.9	9
47	Universal Critical Behavior of Curvature-Dependent Interfacial Tension. Physical Review Letters, 2011, 107, 235702.	2.9	35
48	Simulation of binary fluids exposed to selectively adsorbing walls: a method to estimate contact angles and line tensions. Molecular Physics, 2011, 109, 1043-1056.	0.8	18
49	Monte Carlo Methods for Estimating Interfacial Free Energies and Line Tensions. Journal of Statistical Physics, 2011, 144, 690-729.	0.5	33
50	Universality in fluid domain coarsening: The case of vapor-liquid transition. Europhysics Letters, 2011, 95, 46002.	0.7	38
51	Transport phenomena in fluids: Finite-size scaling for critical behavior. Europhysics Letters, 2011, 94, 36001.	0.7	40
52	Diffusive domain coarsening: Early time dynamics and finite-size effects. Physical Review E, 2011, 84, 021110.	0.8	33
53	Phase Separation in Confined Geometries. Journal of Statistical Physics, 2010, 138, 51-84.	0.5	62
54	Does Young's equation hold on the nanoscale? A Monte Carlo test for the binary Lennard-Jones fluid. Europhysics Letters, 2010, 92, 26006.	0.7	38

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55	Curvature dependence of surface free energy of liquid drops and bubbles: A simulation study. Journal of Chemical Physics, 2010, 133, 154702.	1.2	136
56	Domain coarsening in two dimensions: Conserved dynamics and finite-size scaling. Physical Review E, 2010, 81, 050102.	0.8	50
57	Kinetics of surface enrichment: A molecular dynamics study. Journal of Chemical Physics, 2010, 133, 154901.	1.2	5
58	SURFACE-DIRECTED SPINODAL DECOMPOSITION: LATTICE MODEL VERSUS GINZBURG-LANDAU THEORY. Modern Physics Letters B, 2009, 23, 549-565.	1.0	8
59	Simulation of surface-controlled phase separation in slit pores: Diffusive Ginzburg-Landau kinetics versus Molecular Dynamics. Computer Physics Communications, 2008, 179, 1-7.	3.0	1
60	Simulating critical dynamics in liquid mixtures: Short-range and long-range contributions. Journal of Chemical Physics, 2007, 127, 144506.	1.2	17
61	Static and dynamic critical behavior of a symmetrical binary fluid: A computer simulation. Journal of Chemical Physics, 2006, 125, 024506.	1.2	85
62	Molecular Dynamics Study of Phase Separation Kinetics in Thin Films. Physical Review Letters, 2006, 96, 016107.	2.9	61
63	Critical Dynamics in a Binary Fluid: Simulations and Finite-Size Scaling. Physical Review Letters, 2006, 97, 025702.	2.9	70
64	The Bulk Viscosity of a Symmetrical Lennard-Jones Mixture above and at Liquid-Liquid Coexistence: A Computer Simulation Study. Phase Transitions, 2004, 77, 823-834.	0.6	9
65	Inhomogeneous cooling in inelastic granular fluids. Physica A: Statistical Mechanics and Its Applications, 2003, 318, 55-62.	1.2	4
66	Transport phenomena and microscopic structure in partially miscible binary fluids: A simulation study of the symmetrical Lennard-Jones mixture. Journal of Chemical Physics, 2003, 119, 1547-1558.	1.2	51
67	Kinetics of inhomogeneous cooling in granular fluids. Physical Review E, 2003, 68, 011302.	0.8	36
68	Dynamics of phase separation in multicomponent mixtures. Physical Review E, 2002, 65, 026141.	0.8	31
69	Nonequilibrium dynamics of the complex Ginzburg-Landau equation: Numerical results in two and three dimensions. Physical Review E, 2002, 65, 046123.	0.8	4
70	Nonequilibrium dynamics in the complex Ginzburg-Landau equation. Physical Review E, 2001, 64, 056140.	0.8	8
71	Nonequilibrium dynamics of the complex Ginzburg-Landau equation: Analytical results. Physical Review E, 2001, 64, 046206.	0.8	12