

Subir K Das

List of Publications by Year in descending order

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71
papers

1,513
citations

304602

22
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345118

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72
all docs

72
docs citations

72
times ranked

800
citing authors

#	ARTICLE	IF	CITATIONS
1	Curvature dependence of surface free energy of liquid drops and bubbles: A simulation study. Journal of Chemical Physics, 2010, 133, 154702.	1.2	136
2	Static and dynamic critical behavior of a symmetrical binary fluid: A computer simulation. Journal of Chemical Physics, 2006, 125, 024506.	1.2	85
3	Critical Dynamics in a Binary Fluid: Simulations and Finite-Size Scaling. Physical Review Letters, 2006, 97, 025702.	2.9	70
4	Phase Separation in Confined Geometries. Journal of Statistical Physics, 2010, 138, 51-84.	0.5	62
5	Molecular Dynamics Study of Phase Separation Kinetics in Thin Films. Physical Review Letters, 2006, 96, 016107.	2.9	61
6	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
7	Domain coarsening in two dimensions: Conserved dynamics and finite-size scaling. Physical Review E, 2010, 81, 050102.	0.8	50
8	Phase Behavior of Active Swimmers in Depletants: Molecular Dynamics and Integral Equation Theory. Physical Review Letters, 2014, 112, 198301.	2.9	50
9	Transport phenomena in fluids: Finite-size scaling for critical behavior. Europhysics Letters, 2011, 94, 36001.	0.7	40
10	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
11	Universality in fluid domain coarsening: The case of vapor-liquid transition. Europhysics Letters, 2011, 95, 46002.	0.7	38
12	Kinetics of inhomogeneous cooling in granular fluids. Physical Review E, 2003, 68, 011302.	0.8	36
13	Crossover in growth laws for phase-separating binary fluids: Molecular dynamics simulations. Physical Review E, 2012, 85, 031140.	0.8	36
14	Universal Critical Behavior of Curvature-Dependent Interfacial Tension. Physical Review Letters, 2011, 107, 235702.	2.9	35
15	Monte Carlo Methods for Estimating Interfacial Free Energies and Line Tensions. Journal of Statistical Physics, 2011, 144, 690-729.	0.5	33
16	Diffusive domain coarsening: Early time dynamics and finite-size effects. Physical Review E, 2011, 84, 021110.	0.8	33
17	Activity mediated phase separation: Can we understand phase behavior of the nonequilibrium problem from an equilibrium approach?. Journal of Chemical Physics, 2016, 144, 144902.	1.2	33
18	Finite-size effects in dynamics: Critical vs. coarsening phenomena. Europhysics Letters, 2012, 97, 66006.	0.7	32

#	ARTICLE	IF	CITATIONS
19	Dynamics of phase separation in multicomponent mixtures. <i>Physical Review E</i> , 2002, 65, 026141.	0.8	31
20	Dynamics and growth of droplets close to the two-phase coexistence curve in fluids. <i>Soft Matter</i> , 2013, 9, 4178.	1.2	29
21	Kinetics of Vapor-Solid Phase Transitions: Structure, Growth, and Mechanism. <i>Physical Review Letters</i> , 2017, 118, 165701.	2.9	26
22	Nucleation and growth of droplets in vapor-liquid transitions. <i>Physical Review E</i> , 2012, 85, 050602.	0.8	24
23	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
24	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
25	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
26	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
27	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
28	Simulation of binary fluids exposed to selectively adsorbing walls: a method to estimate contact angles and line tensions. <i>Molecular Physics</i> , 2011, 109, 1043-1056.	0.8	18
29	Simulating critical dynamics in liquid mixtures: Short-range and long-range contributions. <i>Journal of Chemical Physics</i> , 2007, 127, 144506.	1.2	17
30	Hydrodynamic crossovers in surface-directed spinodal decomposition and surface enrichment. <i>Europhysics Letters</i> , 2012, 97, 16005.	0.7	17
31	Effects of domain morphology on kinetics of fluid phase separation. <i>Journal of Chemical Physics</i> , 2013, 139, 044911.	1.2	17
32	Coarsening in fluid phase transitions. <i>Comptes Rendus Physique</i> , 2015, 16, 303-315.	0.3	17
33	Aging and crossovers in phase-separating fluid mixtures. <i>Physical Review E</i> , 2012, 86, 061129.	0.8	16
34	Effects of Density Conservation and Hydrodynamics on Aging in Nonequilibrium Processes. <i>Physical Review Letters</i> , 2013, 111, 055503.	2.9	15
35	Role of initial correlation in coarsening of a ferromagnet. <i>European Physical Journal B</i> , 2015, 88, 1.	0.6	15
36	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

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37	Ballistic aggregation in systems of inelastic particles: Cluster growth, structure, and aging. <i>Physical Review E</i> , 2017, 96, 012105.	0.8	14
38	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
39	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
40	How do clusters in phase-separating active matter systems grow? A study for Vicsek activity in systems undergoing vapor-liquid transition. <i>Soft Matter</i> , 2021, 17, 645-654.	1.2	13
41	Nonequilibrium dynamics of the complex Ginzburg-Landau equation: Analytical results. <i>Physical Review E</i> , 2001, 64, 046206.	0.8	12
42	Finite-size scaling study of shear viscosity anomaly at liquid-liquid criticality. <i>Journal of Chemical Physics</i> , 2014, 141, 234502.	1.2	12
43	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
44	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
45	The Bulk Viscosity of a Symmetrical Lennard-Jones Mixture above and at Liquid-liquid Coexistence: A Computer Simulation Study. <i>Phase Transitions</i> , 2004, 77, 823-834.	0.6	9
46	When Is a Conductor Not Perfect? Sum Rules Fail Under Critical Fluctuations. <i>Physical Review Letters</i> , 2011, 107, 215701.	2.9	9
47	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
48	Nonequilibrium dynamics in the complex Ginzburg-Landau equation. <i>Physical Review E</i> , 2001, 64, 056140.	0.8	8
49	SURFACE-DIRECTED SPINODAL DECOMPOSITION: LATTICE MODEL VERSUS GINZBURG-LANDAU THEORY. <i>Modern Physics Letters B</i> , 2009, 23, 549-565.	1.0	8
50	Dynamics of clustering in freely cooling granular fluid. <i>Europhysics Letters</i> , 2014, 108, 66001.	0.7	8
51	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
52	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
53	Effects of alignment activity on the collapse kinetics of a flexible polymer. <i>Soft Matter</i> , 2022, 18, 1978-1990.	1.2	8
54	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

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55	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
56	Droplet growth during vapor-liquid transition in a 2D Lennard-Jones fluid. <i>Journal of Chemical Physics</i> , 2017, 146, 024503.	1.2	6
57	Kinetics of surface enrichment: A molecular dynamics study. <i>Journal of Chemical Physics</i> , 2010, 133, 154901.	1.2	5
58	Spiral dynamics in the complex Ginzburg-Landau equation: Disorder vs. freezing. <i>Europhysics Letters</i> , 2012, 97, 46006.	0.7	5
59	Unlocking of frozen dynamics in the complex Ginzburg-Landau equation. <i>Physical Review E</i> , 2013, 87, 012135.	0.8	5
60	Nonequilibrium dynamics of the complex Ginzburg-Landau equation: Numerical results in two and three dimensions. <i>Physical Review E</i> , 2002, 65, 046123.	0.8	4
61	Inhomogeneous cooling in inelastic granular fluids. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 318, 55-62.	1.2	4
62	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
63	Kinetics of domain growth and aging in a two-dimensional off-lattice system. <i>Physical Review E</i> , 2020, 102, 062119.	0.8	4
64	Active particles in explicit solvent: Dynamics of clustering for alignment interaction. <i>Physical Review E</i> , 2022, 105, 014606.	0.8	4
65	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
66	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
67	Simulation of surface-controlled phase separation in slit pores: Diffusive Ginzburg-Landau kinetics versus Molecular Dynamics. <i>Computer Physics Communications</i> , 2008, 179, 1-7.	3.0	1
68	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
69	Structure and dynamics in active matter systems. <i>Soft Materials</i> , 2021, 19, 263-266.	0.8	1
70	Influence of roughening transition on magnetic ordering. <i>Physical Review E</i> , 2022, 105, 044142.	0.8	1
71	Aging exponents for nonequilibrium dynamics following quenches from critical points. <i>Physical Review E</i> , 2020, 101, 062112.	0.8	0