

Bongsoo Kim

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Fluctuating Nonlinear Hydrodynamics, Dense Fluids, and the Glass Transition. <i>Advances in Chemical Physics</i> , 2007, , 129-170.	0.3	47
2	The mode coupling theory in the FDR-preserving field theory of interacting Brownian particles. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, F33-F42.	2.1	33
3	Equilibrium dynamics of the Dean-Kawasaki equation: Mode-coupling theory and its extension. <i>Physical Review E</i> , 2014, 89, 012150.	2.1	29
4	Nonequilibrium critical dynamics of the triangular antiferromagnetic Ising model. <i>Physical Review E</i> , 2003, 68, 066127.	2.1	24
5	Structural fluctuation of protein in water around its native state: A new statistical mechanics formulation. <i>Journal of Chemical Physics</i> , 2013, 138, 054108.	3.0	24
6	Patterns of Striped Order in the Classical Lattice Coulomb Gas. <i>Physical Review Letters</i> , 2001, 88, 025701.	7.8	23
7	Slow Dynamics in the Relaxation of an Irrationally Frustrated XY Model in Two Dimensions: Analogy to Supercooled Liquids. <i>Physical Review Letters</i> , 1997, 78, 3709-3712.	7.8	21
8	A fluctuation-dissipation relationship-preserving field theory for interacting Brownian particles: one-loop theory and mode coupling theory. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2008, 2008, P02004.	2.3	21
9	Dynamics of spin and chiral ordering in the two-dimensional fully frustrated XY model. <i>Physical Review E</i> , 1995, 51, R4-R7.	2.1	18
10	Ordering kinetics of two-dimensional O(2) models: Scaling and temperature dependence. <i>Physical Review E</i> , 1995, 52, 1550-1557.	2.1	17
11	Exactly Solvable Toy Model that Mimics the Mode Coupling Theory of Supercooled Liquid and Glass Transition. <i>Physical Review Letters</i> , 2001, 86, 3582-3585.	7.8	16
12	A dynamic mean-field glass model with reversible mode coupling and a trivial Hamiltonian. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 2265-2273.	1.8	13
13	Ordering Kinetics in the Two-Dimensional Classical Coulomb Gas of Half-Integer Charges on a Square Lattice: Temperature Dependent Growth and Roughening Transition. <i>Physical Review Letters</i> , 1997, 79, 2172-2175.	7.8	11
14	Nonequilibrium critical relaxation of the order parameter and energy in the two-dimensional ferromagnetic Potts model. <i>Physical Review E</i> , 2008, 77, 056104.	2.1	11
15	Vortex jamming in superconductors and granular rheology. <i>New Journal of Physics</i> , 2009, 11, 013010.	2.9	11
16	Orientational relaxation in Brownian rotors with frustrated interactions on a square lattice. <i>Physical Review E</i> , 1999, 60, 1503-1511.	2.1	10
17	Brownian dynamics: From glassy to trivial. <i>Physical Review E</i> , 2015, 91, 022130.	2.1	8
18	Infinite ground state degeneracy and glassy dynamics in the frustrated XY model and lattice Coulomb gas with. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 315, 314-320.	2.6	7

#	ARTICLE	IF	CITATIONS
19	From the Frenkel-Kontorova Model to Josephson Junction Arrays. Progress of Theoretical Physics Supplement, 2010, 184, 153-171.	0.1	7
20	Multi-scale dynamics simulation of protein based on the generalized Langevin equation combined with 3D-RISM theory. Journal of Molecular Liquids, 2016, 217, 23-28.	4.9	7
21	Coarsening kinetics of a two-dimensional $O(2)$ Ginzburg-Landau model: the effect of reversible mode coupling. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P03013.	2.3	6
22	Growth kinetics of the two-dimensional Ising model with finite cooling rates. Physical Review E, 2019, 99, 022113.	2.1	6
23	Nonequilibrium relaxations within the ground-state manifold in the antiferromagnetic Ising model on a triangular lattice. Physical Review E, 2007, 75, 021106.	2.1	5
24	Kinetically driven glassy transition in an exactly solvable toy model with a reversible mode coupling mechanism and trivial statics. Journal of Physics Condensed Matter, 2002, 14, 1627-1636.	1.8	4
25	Vortex Solid Phase with Frozen Undulations in Superconducting Josephson-Junction Arrays in External Magnetic Fields. Physical Review Letters, 2010, 105, 257004.	7.8	4
26	Coarsening of two-dimensional XY model with Hamiltonian dynamics: logarithmically divergent vortex mobility. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P11023.	2.3	4
27	Nonequilibrium kinetics of excess defect generation and dynamic scaling in the Ising spin chain under slow cooling. Physical Review E, 2020, 102, 012114.	2.1	4
28	Dynamics of a noninteracting colloidal fluid in a quenched Gaussian random potential: a time-reversal-symmetry-preserving field-theoretic approach. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 023301.	2.3	4
29	Structural relaxation, self-diffusion, and kinetic heterogeneity in the two-dimensional lattice Coulomb gas. Physical Review E, 2001, 64, 066103.	2.1	3
30	Out of Equilibrium Dynamics of the Toy Model with Mode Coupling and Trivial Hamiltonian. Journal of Statistical Physics, 2002, 109, 591-606.	1.2	2
31	Kinetics of XY and Ising ordering in a time-dependent Ginzburg-Landau model with $O(2)$ - Z_2 ground-state degeneracy. Physical Review E, 1997, 56, 6362-6369.	2.1	1
32	A FDR-Preserving Field Theory for Interacting Brownian Particles: One-Loop Theory and MCT. AIP Conference Proceedings, 2008, , .	0.4	1
33	An FDR-Consistent Field Theory for the Stochastic Dynamic Density Functional Model. Progress of Theoretical Physics Supplement, 2009, 178, 123-132.	0.1	1
34	Coarsening of a nonequilibrium kinetic Ising chain with absorbing transitions: spatial correlation of the order parameters and their dynamic scalings. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P08013.	2.3	1
35	Double transitions, non-Ising criticality and the critical absorbing phase in an interacting monomer-dimer model on a square lattice. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, L06001.	2.3	1
36	Optical Conductivity in a Two Dimensional Quantum Well System with Impurity Scattering. Journal of the Physical Society of Japan, 2002, 71, 2980-2982.	1.6	0

#	ARTICLE	IF	CITATIONS
37	Equilibrium Dynamics of the Toy Model of Dense Fluid: The Infinite Damping Limit. Journal of Physical Chemistry B, 2005, 109, 21389-21398.	2.6	0
38	Relaxation dynamics and interrupted coarsening in irrationally frustrated superconducting arrays. Physical Review B, 2008, 78, .	3.2	0
39	Coarsening dynamics of an antiferromagnetic XY model on the kagome lattice: Breakdown of critical dynamic scaling. Physical Review B, 2009, 79, .	3.2	0
40	Sliding of a vortex solid with self-generated randomness in a frustrated Josephson junction array. Journal of Physics: Conference Series, 2011, 320, 012024.	0.4	0
41	Transition by breaking of analyticity in the ground state of Josephson junction arrays as a static signature of the vortex jamming transition. Physical Review E, 2012, 85, 051132.	2.1	0
42	Nonequilibrium critical dynamics of two dimensional interacting monomer-dimer model: non-Ising criticality. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P08011.	2.3	0
43	Slow Dynamics in the Relaxation of an Irrationally Frustrated XY Model in Two Dimensions: Analogy to Supercooled Liquids. Progress of Theoretical Physics Supplement, 2013, 126, 349-354.	0.1	0
44	Theory of Molecular Recognition and Structural Fluctuation of Biomolecules. , 2016, , 163-181.		0