Beom Jun Kim

List of Publications by Year
in descending order

173 papers	5,750 citations	172457 29 h-index	79698 73 g-index
174 all docs	174 docs citations	174 times ranked	3864 citing authors

#	Article	IF	Citations
1	Defense strategies against cascading failures in networks: "Too-big-to-fail" and "too-small-to-fail". Physica A: Statistical Mechanics and Its Applications, 2022, 586, 126488.	2.6	1
2	Cliophysics: A scientific analysis of recurrent historical events. Europhysics Letters, 2022, 138, 22004.	2.0	2
3	The effect of media on opinion formation. Physica A: Statistical Mechanics and Its Applications, 2022, 595, 127075.	2.6	3
4	Generalized p-median problem for the optimal distribution of facilities. Journal of the Korean Physical Society, 2022, 80, 352-358.	0.7	0
5	Different environmental conditions in genetic algorithm. Physica A: Statistical Mechanics and Its Applications, 2022, 602, 127604.	2.6	3
6	Consistency landscape of network communities. Physical Review E, 2021, 103, 052306.	2.1	9
7	Impact of personal income on mortality: Decomposition into biological vs. socio-economic effects. Europhysics Letters, 2021, 135, 14002.	2.0	0
8	Stochastic resonance of abundance fluctuations and mean time to extinction in an ecological community. Physical Review E, 2021, 104, 024133.	2.1	6
9	Spatial distribution of access diversity on urban road networks. Journal of the Korean Physical Society, 2021, 79, 504-511.	0.7	2
10	Modified Kuramoto model with inverse-square law coupling and spatial time delay. Physica A: Statistical Mechanics and Its Applications, 2021, 582, 126263.	2.6	0
11	Power-grid stability predictions using transferable machine learning. Chaos, 2021, 31, 123127.	2.5	8
12	Co-sponsorship analysis of party politics in the 20th National Assembly of Republic of Korea. Physica A: Statistical Mechanics and Its Applications, 2020, 560, 125178.	2.6	3
13	Discontinuous phase transition in the Kuramoto model with asymmetric dynamic interaction. Physical Review E, 2020, 102, 052207.	2.1	4
14	Asymmetric dynamic interaction shifts synchronized frequency of coupled oscillators. Scientific Reports, 2020, 10, 2516.	3.3	3
15	Confusion scheme in machine learning detects double phase transitions and quasi-long-range order. Physical Review E, 2019, 99, 043308.	2.1	20
16	Product flow and price change in an agricultural distribution network. Physica A: Statistical Mechanics and Its Applications, 2018, 490, 70-76.	2.6	3
17	Dynamic critical behavior of the one-dimensional XY model with a long-range interaction. Physical Review E, 2018, 98, .	2.1	0
18	Generalized gravity model for human migration. New Journal of Physics, 2018, 20, 093018.	2.9	12

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19	Deviation-based spam-filtering method via stochastic approach. Europhysics Letters, 2018, 121, 68004.	2.0	13
20	Benford's law and first letter of words. Physica A: Statistical Mechanics and Its Applications, 2018, 512, 305-315.	2.6	6
21	Free energy of a chemotactic model with nonlinear diffusion. Scientific Reports, 2017, 7, 8909.	3.3	3
22	Structural phase transition in a growing network model with tunable member intimacy. Europhysics Letters, 2017, 118, 48004.	2.0	0
23	Human bipedalism and body-mass index. Scientific Reports, 2017, 7, 3688.	3.3	2
24	Spatial uniformity in the power-grid system. Physical Review E, 2017, 95, 042316.	2.1	6
25	Role of generosity and forgiveness: Return to a cooperative society. Physical Review E, 2017, 95, 042314.	2.1	5
26	Climate change alters diffusion of forest pest: A model study. Journal of the Korean Physical Society, 2017, 70, 108-115.	0.7	9
27	Network of likes and dislikes: Conflict and membership. Physica A: Statistical Mechanics and Its Applications, 2016, 461, 647-654.	2.6	2
28	Evolution of popularity in given names. Physica A: Statistical Mechanics and Its Applications, 2016, 443, 415-422.	2.6	4
29	Winding number excitation detects phase transition in one-dimensional XY model with variable interaction range. Physical Review E, 2015, 91, 052120.	2.1	2
30	Anomalous response in the vicinity of spontaneous symmetry breaking. European Physical Journal B, 2015, 88, 1.	1.5	1
31	Group Intimacy and Network Formation. , 2015, , .		0
32	Theory of fads: Traveling-wave solution of evolutionary dynamics in a one-dimensional trait space. Physical Review E, 2015, 91, 012815.	2.1	2
33	Zero-one-only process: A correlated random walk with a stochastic ratchet. International Journal of Modern Physics B, 2014, 28, 1450201.	2.0	0
34	Structural properties of networks grown via an Achlioptas process. Journal of the Korean Physical Society, 2014, 65, 1985-1990.	0.7	2
35	Stochastic resonance in the two-dimensional q-state clock models. Physical Review E, 2014, 89, 032137.	2.1	4
36	Matchmaker, Matchmaker, Make Me a Match: Migration of Populations via Marriages in the Past. Physical Review X, 2014, 4, .	8.9	9

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37	Finite-Time and Finite-Size Scaling of the Kuramoto Oscillators. Physical Review Letters, 2014, 112, 074102.	7.8	7
38	Winding-number excitation in one-dimensional oscillators with variable interaction range. Journal of the Korean Physical Society, 2014, 64, 954-957.	0.7	2
39	International transmission of shocks and fragility of a bank network. Physica A: Statistical Mechanics and Its Applications, 2014, 403, 120-129.	2.6	8
40	Human dynamics of spending: Longitudinal study of a coalition loyalty program. Physica A: Statistical Mechanics and Its Applications, 2014, 410, 391-398.	2.6	2
41	Residual discrete symmetry of the five-state clock model. Physical Review E, 2013, 88, 012125.	2.1	17
42	Analysis of the one-dimensional Yut-Nori game: Winning strategy and avalanche-size distribution. Journal of the Korean Physical Society, 2013, 63, 1497-1502.	0.7	1
43	Surname statistics – Crossing the boundary between disciplines. Physics of Life Reviews, 2013, 10, 420-421.	2.8	0
44	Fractality of profit landscapes and validation of time series models for stock prices. European Physical Journal B, 2013, 86, 1.	1.5	2
45	Allometric exponent and randomness. New Journal of Physics, 2013, 15, 043001.	2.9	2
46	Thermodynamic arrow of time of quantum projective measurements. Europhysics Letters, 2013, 103, 20006.	2.0	1
47	Phase transition in a coevolving network of conformist and contrarian voters. Physical Review E, 2013, 87, 012806.	2.1	22
48	Nonequilibrium work by charge control in a Josephson junction. Physical Review E, 2013, 88, 022143.	2.1	0
49	Percolation properties of growing networks under an Achlioptas process. Europhysics Letters, 2013, 103, 26004.	2.0	12
50	Universal statistics of the knockout tournament. Scientific Reports, 2013, 3, 3198.	3.3	1
51	Double resonance in the infinite-range quantum Ising model. Physical Review E, 2012, 86, 021119.	2.1	2
52	Double stochastic resonance in the mean-field q-state clock model. Physical Review E, 2012, 86, 011132.	2.1	7
53	Critical condition of the water-retention model. Physical Review E, 2012, 85, 032103.	2.1	8
54	Cluster-size heterogeneity in the two-dimensional Ising model. Physical Review E, 2012, 86, 032103.	2.1	10

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55	Traveling baseball players' problem in Korea. Journal of the Korean Physical Society, 2012, 61, 484-492.	0.7	2
56	Fractal Profit Landscape of the Stock Market. PLoS ONE, 2012, 7, e33960.	2.5	12
57	Neutral theory of chemical reaction networks. New Journal of Physics, 2012, 14, 033032.	2.9	13
58	Time reversibility of quantum diffusion in small-world networks. Journal of the Korean Physical Society, 2012, 60, 665-668.	0.7	0
59	The Sensitivity of Respondent-Driven Sampling. Journal of the Royal Statistical Society Series A: Statistics in Society, 2012, 175, 191-216.	1.1	66
60	Force correlations in molecular and stochastic dynamics. Computer Physics Communications, 2012, 183, 1574-1577.	7.5	3
61	Dworkin's Paradox. PLoS ONE, 2012, 7, e38529.	2.5	2
62	Synchronization in interdependent networks. Chaos, 2011, 21, 025106.	2.5	39
63	Continuity of the explosive percolation transition. Physical Review E, 2011, 84, 020101.	2.1	64
64	LOCATION DYNAMICS OF FOREIGN BANKING IN SHANGHAI FROM 1990 TO 2009. International Journal of Modern Physics C, 2011, 22, 1081-1092.	1.7	0
65	Dissolution of traffic jam via additional local interactions. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 4555-4561.	2.6	24
66	The ten thousand Kims. New Journal of Physics, 2011, 13, 073036.	2.9	10
67	Ising model on a hyperbolic plane with a boundary. Physical Review E, 2011, 84, 032103.	2.1	7
68	Kosterlitz-Thouless transition of magnetic dipoles on the two-dimensional plane. Physical Review B, 2011, 83, .	3.2	14
69	Critical temperatures of the three- and four-state Potts models on the kagome lattice. Physical Review E, 2011, 83, 061104.	2.1	4
70	Comment on "Phase transition in a one-dimensional Ising ferromagnet at zero temperature using Glauber dynamics with a synchronous updating mode". Physical Review E, 2011, 83, 033101.	2.1	3
71	Quantum Monte Carlo study of the transverse-field quantum Ising model on infinite-dimensional structures. Physical Review B, 2011, 84, .	3.2	6
72	Voter model on a directed network: Role of bidirectional opinion exchanges. Physical Review E, 2010, 81, 057103.	2.1	12

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73	Comment on "Six-state clock model on the square lattice: Fisher zero approach with Wang-Landau sampling". Physical Review E, 2010, 81, 063101.	2.1	19
74	ANTIPHASE SYNCHRONIZATION OF TWO NONIDENTICAL PENDULUMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 2179-2184.	1.7	10
75	Surface and bulk criticality in midpoint percolation. Physical Review E, 2010, 81, 041108.	2.1	4
76	True and quasi-long-range order in the generalized q-state clock model. Physical Review E, 2009, 80, 060101.	2.1	25
77	Phase transition of q-state clock models on heptagonal lattices. Physical Review E, 2009, 80, 011133.	2.1	15
78	Curvature-induced frustration in the XY model on hyperbolic surfaces. Physical Review E, 2009, 79, 060106.	2.1	23
79	Reentrant phase transition in a predator-prey model. Physical Review E, 2009, 79, 066114.	2.1	5
80	Flow improvement caused by agents who ignore traffic rules. Physical Review E, 2009, 80, 016111.	2.1	28
81	Dynamics and Directionality in Complex Networks. Physical Review Letters, 2009, 103, 228702.	7.8	43
82	THE GROUNDSTATES AND PHASES OF THE TWO-DIMENSIONAL FULLY FRUSTRATED XY MODEL. International Journal of Modern Physics B, 2009, 23, 3939-3950.	2.0	0
83	Scaling laws between population and facility densities. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14236-14240.	7.1	69
84	Comment on 'Monte Carlo simulation study of the two-stage percolation transition in enhanced binary trees'. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 478001.	2.1	9
85	Comparison of immunization strategies in geographical networks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 3877-3882.	2.1	7
86	Percolation on hyperbolic lattices. Physical Review E, 2009, 79, 011124.	2.1	36
87	THE GROUNDSTATES AND PHASES OF THE TWO-DIMENSIONAL FULLY FRUSTRATED XY MODEL. , 2009, , .		1
88	Network marketing with bounded rationality and partial information. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 4896-4902.	2.6	5
89	Testing a priority-based queue model with Linux command histories. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 3660-3668.	2.6	21
90	Network analysis of an online community. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 5946-5951.	2.6	16

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91	Symmetry-allowed phase transitions realized by the two-dimensional fully frustrated<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>X</mml:mi><mml:mi>Y</mml:mi></mml:mrow></mml:math>class. Physical Review B, 2008, 78, .	3.2	4
92	Intelligent tit-for-tat in the iterated prisoner's dilemma game. Physical Review E, 2008, 78, 011125.	2.1	25
93	Diffusion on a heptagonal lattice. Physical Review E, 2008, 77, 022104.	2.1	12
94	Frequency-Entrainment Measures in Coupled-Oscillator Systems. Journal of the Korean Physical Society, 2008, 52, 198-202.	0.7	1
95	Dynamic Phase Transition of the Globally-Coupled Kinetic Ising Model in the Low-Frequency Region. Journal of the Korean Physical Society, 2008, 52, 203-208.	0.7	9
96	Synchronization of Nonidentical Phase Oscillators in Directed Networks. Journal of the Korean Physical Society, 2008, 53, 491-496.	0.7	2
97	Z2 Symmetry in the Melting Transition of the DNA Helix. Journal of the Korean Physical Society, 2008, 52, 502-506.	0.7	0
98	Phase Transitions in the Generalized XY Model at f = 1/2. Journal of the Korean Physical Society, 2008, 53, 1269-1272.	0.7	0
99	Scale-freeness for networks as a degenerate ground state: A Hamiltonian formulation. Europhysics Letters, 2007, 78, 28004.	2.0	5
100	Localization softening in flexible conducting polymers. Physical Review B, 2007, 76, .	3.2	3
101	Facilitated gapless conduction through DNA molecules. Physical Review B, 2007, 75, .	3.2	5
102	Family name distributions: Master equation approach. Physical Review E, 2007, 76, 046113.	2.1	31
103	Phase diagram of generalized fully frustratedXYmodel in two dimensions. Physical Review B, 2007, 76, .	3.2	12
104	Korean university life in a network perspective: Dynamics of a large affiliation network. Physica A: Statistical Mechanics and Its Applications, 2007, 373, 821-830.	2.6	101
105	Blood-type distribution. Physica A: Statistical Mechanics and Its Applications, 2007, 373, 533-540.	2.6	3
106	Optimal synchronizability of networks. European Physical Journal B, 2007, 60, 89-95.	1.5	24
107	Korean Family Name Distribution in the Past. Journal of the Korean Physical Society, 2007, 51, 1812-1816.	0.7	14
108	Network marketing on a small-world network. Physica A: Statistical Mechanics and Its Applications, 2006, 360, 493-504.	2.6	33

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109	Wiring cost in the organization of a biological neuronal network. Physica A: Statistical Mechanics and Its Applications, 2006, 367, 531-537.	2.6	55
110	Consumer referral in a small world network. Social Networks, 2006, 28, 232-246.	2.1	24
111	Dynamic critical behaviors in two-dimensional Josephson junction arrays with positional disorder. Physical Review B, 2006, 74, .	3.2	9
112	Dynamic behaviors in directed networks. Physical Review E, 2006, 74, 026114.	2.1	34
113	Distribution of Korean family names. Physica A: Statistical Mechanics and Its Applications, 2005, 347, 683-694.	2.6	23
114	Scale-free dynamics emerging from information transfer. Europhysics Letters, 2005, 69, 503-509.	2.0	5
115	Entropic sampling dynamics of the globally coupled kinetic Ising model. Journal of Physics A, 2005, 38, 2115-2122.	1.6	1
116	Critical currents for vortex defect motion in superconducting arrays. Physical Review B, 2005, 71, .	3.2	2
117	Instability of defensive alliances in the predator-prey model on complex networks. Physical Review E, 2005, 72, 041906.	2.1	14
118	Universality Class of the Fiber Bundle Model on Complex Networks. Physical Review Letters, 2005, 94, 025501.	7.8	61
119	Factors that predict better synchronizability on complex networks. Physical Review E, 2004, 69, 067105.	2.1	209
120	Performance of networks of artificial neurons: The role of clustering. Physical Review E, 2004, 69, 045101.	2.1	107
121	Scaling determination of the nonlinear$I$-V characteristics for two-dimensional superconducting networks. Physical Review B, 2004, 69, .	3.2	2
122	Geographical Coarse Graining of Complex Networks. Physical Review Letters, 2004, 93, 168701.	7.8	51
123	Dynamic transition and Shapiro-step melting in a frustrated Josephson-junction array. Physical Review B, 2004, 69, .	3.2	11
124	Network bipartivity. Physical Review E, 2003, 68, 056107.	2.1	107
125	Phase transition in the Ising model on a small-world network with distance-dependent interactions. Physical Review E, 2003, 68, 027101.	2.1	23
126	Optimal size of a complex network. Physical Review E, 2003, 67, 046101.	2.1	12

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127	Phase transitions in the two-dimensional random gaugeXYmodel. Physical Review B, 2003, 67, .	3.2	15
128	Prisoners' dilemma in real-world acquaintance networks: Spikes and quasiequilibria induced by the interplay between structure and dynamics. Physical Review E, 2003, 68, 030901.	2.1	92
129	Direct evidence of the discontinuous character of the Kosterlitz-Thouless jump. Physical Review B, 2003, 67, .	3.2	29
130	Dynamic critical behavior of theXYmodel in small-world networks. Physical Review E, 2003, 67, 036118.	2.1	50
131	Quantum and classical diffusion on small-world networks. Physical Review B, 2003, 68, .	3.2	24
132	Netons: vibrations of complex networks. Journal of Physics A, 2003, 36, 6329-6336.	1.6	11
133	Growing scale-free networks with tunable clustering. Physical Review E, 2002, 65, 026107.	2.1	728
134	Path finding strategies in scale-free networks. Physical Review E, 2002, 65, 027103.	2.1	151
135	Stochastic resonance in the driven Ising model on small-world networks. Physical Review E, 2002, 66, 011107.	2.1	24
136	Vertex overload breakdown in evolving networks. Physical Review E, 2002, 65, 066109.	2.1	219
137	Comment on "Loss of Superconducting Phase Coherence inYBa2Cu3O7films: Vortex-Loop Unbinding and Kosterlitz-Thouless Phenomena". Physical Review Letters, 2002, 89, 149703; author reply 149704.	7.8	2
138	Phase ordering on small-world networks with nearest-neighbor edges. Physical Review E, 2002, 65, 047104.	2.1	27
139	Dynamic instabilities induced by asymmetric influence: Prisoners' dilemma game in small-world networks. Physical Review E, 2002, 66, 021907.	2.1	195
140	Attack vulnerability of complex networks. Physical Review E, 2002, 65, 056109.	2.1	1,365
141	Comment on "Ising model on a small world network". Physical Review E, 2002, 66, 018101.	2.1	69
142	Synchronization on small-world networks. Physical Review E, 2002, 65, 026139.	2.1	375
143	Splitting of the superconducting transition in the two weakly coupled 2D XY models. Physica C: Superconductivity and Its Applications, 2002, 369, 282-285.	1.2	1
144	Ubiquitous finite-size scaling features in I–V characteristics of various dynamic XY models in two dimensions. Physica C: Superconductivity and Its Applications, 2001, 355, 6-14.	1.2	8

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145	Spatiotemporal stochastic resonance in fully frustrated Josephson ladders. Physical Review B, 2001, 63, .	3.2	11
146	Anomalous dynamic response in the two-dimensional lattice Coulomb gas model: Effects of pinning. Physical Review B, 2001, 63, .	3.2	1
147	Relaxational dynamics study of the classical Heisenberg spinXYmodel in spherical coordinate representation. Physical Review B, 2001, 64, .	3.2	6
148	Evidence of Two Distinct Dynamic Critical Exponents in Connection with Vortex Physics. Physical Review Letters, 2001, 87, 037002.	7.8	9
149	XYmodel in small-world networks. Physical Review E, 2001, 64, 056135.	2.1	108
150	Dynamic critical exponent of three-dimensional XY model. Physica B: Condensed Matter, 2000, 284-288, 413-414.	2.7	3
151	Critical dynamics of the four-dimensional XY model. Physica B: Condensed Matter, 2000, 284-288, 455-456.	2.7	4
152	Current-voltage characteristics of the two-dimensionalXYmodel with Monte Carlo dynamics. Physical Review B, 2000, 63, .	3.2	10
153	Finite-temperature resistive transition in the two-dimensionalXYgauge glass model. Physical Review B, 2000, 62, 644-647.	3.2	21
154	Analysis of current-voltage characteristics of two-dimensional superconductors: Finite-size scaling behavior in the vicinity of the Kosterlitz-Thouless transition. Physical Review B, 2000, 62, 14531-14540.	3.2	35
155	Critical current from dynamical boundary instability for fully frustrated Josephson junction arrays. Physical Review B, 2000, 61, 7017-7020.	3.2	4
156	Intrinsic Finite-Size Effects in the Two-DimensionalXYModel with Irrational Frustration. Physical Review Letters, 2000, 85, 3484-3487.	7.8	18
157	Dynamic critical exponent of two-, three-, and four-dimensionalXYmodels with relaxational and resistively shunted junction dynamics. Physical Review B, 2000, 61, 15412-15428.	3.2	39
158	Lattice effects on the current-voltage characteristics of superconducting arrays. Physical Review B, 2000, 61, 3263-3266.	3.2	6
159	Vortex Fluctuations in High-TcFilms: Flux Noise Spectrum and Complex Impedance. Physical Review Letters, 1999, 83, 5567-5570.	7.8	15
160	Magnetic-field dependence of dynamical vortex response in two-dimensional Josephson junction arrays and superconducting films. Physical Review B, 1999, 60, R15043-R15046.	3.2	1
161	Giant Shapiro steps for two-dimensional Josephson-junction arrays with time-dependent Ginzburg-Landau dynamics. Physical Review B, 1999, 60, 588-591.	3.2	7
162	Vortex dynamics for two-dimensionalXYmodels. Physical Review B, 1999, 59, 11506-11522.	3.2	50

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163	Flux-noise spectra around the Kosterlitz-Thouless transition for two-dimensional superconductors. Physical Review B, 1999, 60, 6834-6843.	3.2	14
164	Quantum diffusion in the generalized Harper equation. Journal of Physics A, 1998, 31, 1353-1364.	1.6	7
165	Quantum phase transitions in superconducting arrays under external magnetic fields. Physical Review B, 1998, 58, 14524-14530.	3.2	5
166	Quantum phase transitions in superconducting arrays with general capacitance matrices. Physical Review B, 1997, 56, 395-409.	3.2	12
167	Anomalous relaxation in theXYgauge glass. Physical Review B, 1997, 56, 6007-6012.	3.2	17
168	Comment on "Glassiness in a Model without Energy Barriers". Physical Review Letters, 1996, 76, 4648-4648.	7.8	12
169	Defect motions and smearing of Shapiro steps in Josephson-junction ladders under magnetic frustration. Physical Review B, 1995, 51, 8462-8466.	3.2	14
170	Quantum fluctuations in superconducting arrays with a general capacitance matrix. Physical Review B, 1995, 52, 3624-3631.	3.2	21
171	Subharmonic structure of Shapiro steps in frustrated superconducting arrays. Physical Review B, 1995, 52, 13536-13546.	3.2	8
172	Quantum coherence and duality in Josephson junctions. Physical Review B, 1993, 47, 9112-9115.	3.2	3
173	Temperature-dependent performance of the erasure machine. Journal of the Korean Physical Society, 0, , 1.	0.7	0