MooYoung Choi

List of Publications by Year in descending order

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	136740	118652
4,792	32	62
citations	h-index	g-index
233	233	3594
docs citations	times ranked	citing authors
	citations 233	4,79232citationsh-index233233

#	Article	IF	CITATIONS
1	Synchronization on small-world networks. Physical Review E, 2002, 65, 026139.	0.8	375
2	Phase transitions in confined water nanofilms. Nature Physics, 2010, 6, 685-689.	6.5	261
3	Factors that predict better synchronizability on complex networks. Physical Review E, 2004, 69, 067105.	0.8	209
4	Dynamic instabilities induced by asymmetric influence: Prisoners' dilemma game in small-world networks. Physical Review E, 2002, 66, 021907.	0.8	195
5	Phase transitions in uniformly frustratedXYmodels. Physical Review B, 1985, 31, 4516-4526.	1.1	181
6	Solvation in molecular ionic liquids. Journal of Chemical Physics, 2003, 119, 6411-6414.	1.2	156
7	Statistical analysis of the Metropolitan Seoul Subway System: Network structure and passenger flows. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 6231-6234.	1.2	124
8	XYmodel in small-world networks. Physical Review E, 2001, 64, 056135.	0.8	108
9	Synaptotagmin-1 binds to PIP2-containing membrane but not to SNAREs at physiological ionic strength. Nature Structural and Molecular Biology, 2015, 22, 815-823.	3.6	107
10	A molecular dynamics computer simulation study of room-temperature ionic liquids. II. Equilibrium and nonequilibrium solvation dynamics. Journal of Chemical Physics, 2005, 122, 044511.	1.2	105
11	Synchronization in a system of globally coupled oscillators with time delay. Physical Review E, 2000, 61, 371-381.	0.8	103
12	Kondo effects in carbon nanotubes: From SU(4) to SU(2) symmetry. Physical Review B, 2006, 74, .	1.1	85
13	A molecular dynamics computer simulation study of room-temperature ionic liquids. I. Equilibrium solvation structure and free energetics. Journal of Chemical Physics, 2005, 122, 044510.	1.2	84
14	Collective synchronization in spatially extended systems of coupled oscillators with random frequencies. Physical Review E, 2005, 72, 036217.	0.8	82
15	Solvation, Solute Rotation and Vibration Relaxation, and Electron-Transfer Reactions in Room-Temperature Ionic Liquids. Accounts of Chemical Research, 2007, 40, 1130-1137.	7.6	78
16	Stability and Ensemble Inequivalence in a Globally Coupled System. Physical Review Letters, 2003, 91, 124101.	2.9	73
17	Comment on "lsing model on a small world network― Physical Review E, 2002, 66, 018101.	0.8	69
18	Size Distribution of Mouse Langerhans Islets. Biophysical Journal, 2007, 93, 2655-2666.	0.2	69

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19	Critical behavior of pure and dilutedXYmodels with uniform frustrations. Physical Review B, 1985, 32, 5773-5775.	1.1	62
20	Modification of the gravity model and application to the metropolitan Seoul subway system. Physical Review E, 2012, 86, 026102.	0.8	59
21	Effects of Solute Electronic Polarizability on Solvation in a Room-Temperature Ionic Liquidâ€. Journal of Physical Chemistry B, 2007, 111, 4920-4925.	1.2	53
22	Dynamic behavior of nonlinear networks. Physical Review A, 1983, 28, 1204-1206.	1.0	50
23	Fragility, Stokes–Einstein violation, and correlated local excitations in a coarse-grained model of an ionic liquid. Physical Chemistry Chemical Physics, 2010, 12, 2001.	1.3	48
24	Optimization by multicanonical annealing and the traveling salesman problem. Physical Review E, 1994, 50, R651-R654.	0.8	42
25	Positional disorder in a Josephson-junction array. Physical Review B, 1987, 35, 1669-1675.	1.1	37
26	How Noise and Coupling Induce Bursting Action Potentials in Pancreatic Î ² -Cells. Biophysical Journal, 2005, 89, 1534-1542.	0.2	37
27	Digital dynamics and the simulation of magnetic systems. Physical Review B, 1983, 28, 2547-2554.	1.1	36
28	Glassy phase in an array of Josephson junctions. Physical Review B, 1987, 35, 7109-7112.	1.1	36
29	Double stochastic resonance peaks in systems with dynamic phase transitions. Europhysics Letters, 2001, 56, 333-339.	0.7	36
30	Rotational dynamics of a diatomic solute in the room-temperature ionic liquid 1-ethyl-3-methylimidazolium hexafluorophosphate. Journal of Chemical Physics, 2006, 125, 061102.	1.2	36
31	Spontaneous current and voltage via Aharonov-Casher effect. Physical Review Letters, 1993, 71, 2987-2990.	2.9	35
32	Inertia effects on periodic synchronization in a system of coupled oscillators. Physical Review E, 1999, 59, 353-363.	0.8	33
33	Network marketing on a small-world network. Physica A: Statistical Mechanics and Its Applications, 2006, 360, 493-504.	1.2	33
34	Quantum phase transitions in Josephson-junction chains. Physical Review B, 1998, 57, R716-R719.	1.1	32
35	Dynamic Model of Neural Networks. Physical Review Letters, 1988, 61, 2809-2812.	2.9	30
36	Periodic synchronization in a driven system of coupled oscillators. Physical Review E, 1994, 49, 3825-3832.	0.8	29

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37	Traffic flow and 1/ffluctuations. Physical Review E, 1995, 52, 5979-5984.	0.8	29
38	Arrays of resistively shunted Josephson junctions in magnetic fields. Physical Review B, 1993, 48, 322-332.	1.1	28
39	Granular relaxation under tapping and the traffic problem. Physical Review E, 1994, 50, 4123-4135.	0.8	28
40	Modeling stock return distributions with a quantum harmonic oscillator. Europhysics Letters, 2017, 120, 38003.	0.7	28
41	Phase ordering on small-world networks with nearest-neighbor edges. Physical Review E, 2002, 65, 047104.	0.8	27
42	Quantum Hall effect in ideal superconducting arrays at zero temperature. Physical Review B, 1994, 50, 10088-10091.	1.1	26
43	Phase synchronization and noise-induced resonance in systems of coupled oscillators. Physical Review E, 2000, 62, 6462-6468.	0.8	26
44	Nature of time in Monte Carlo processes. Physical Review B, 1984, 29, 2796-2798.	1.1	25
45	Topological invariance of superconducting arrays. Physical Review B, 1992, 46, 564-566.	1.1	25
46	Collective phase synchronization in locally coupled limit-cycle oscillators. Physical Review E, 2004, 70, 045204.	0.8	25
47	How skew distributions emerge in evolving systems. Europhysics Letters, 2009, 85, 30006.	0.7	25
48	Josephson arrays in an incommensurate magnetic field. Physical Review B, 1985, 32, 7532-7534.	1.1	24
49	Quantum fluctuations in superconducting arrays. Physical Review B, 1990, 41, 111-116.	1.1	24
50	Cotunneling Transport and Quantum Phase Transitions in Coupled Josephson-Junction Chains with Charge Frustration. Physical Review Letters, 1998, 81, 4240-4243.	2.9	24
51	Stochastic resonance in the driven Ising model on small-world networks. Physical Review E, 2002, 66, 011107.	0.8	24
52	Quantum and classical diffusion on small-world networks. Physical Review B, 2003, 68, .	1.1	24
53	Consumer referral in a small world network. Social Networks, 2006, 28, 232-246.	1.3	24
54	Model for Twitter dynamics: Public attention and time series of tweeting. Physica A: Statistical Mechanics and Its Applications, 2014, 404, 142-149.	1.2	24

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55	Synchronization in a network of neuronal oscillators with finite storage capacity. Physical Review E, 1995, 52, 2907-2911.	0.8	23
56	Noise effects on synchronization in systems of coupled oscillators. Journal of Physics A, 1999, 32, L9-L15.	1.6	23
57	Phase transition in the Ising model on a small-world network with distance-dependent interactions. Physical Review E, 2003, 68, 027101.	0.8	23
58	Phase transition in the two-dimensional gauge glass. Physical Review B, 1999, 60, 4070-4073.	1.1	22
59	Quantum fluctuations in superconducting arrays with a general capacitance matrix. Physical Review B, 1995, 52, 3624-3631.	1.1	21
60	Synchronization in networks of superconducting wires. Physical Review B, 1997, 56, 387-394.	1.1	21
61	Beneficial effects of intercellular interactions between pancreatic islet cells in blood glucose regulation. Journal of Theoretical Biology, 2009, 257, 312-319.	0.8	21
62	Emergence of skew distributions in controlled growth processes. Physical Review E, 2010, 82, 061115.	0.8	21
63	Collective excitations and retarded interactions. Physical Review B, 1985, 31, 2862-2866.	1.1	20
64	Spontaneous phase oscillation induced by inertia and time delay. Physical Review E, 2002, 65, 026208.	0.8	20
65	How complexity emerges in urban systems: Theory of urban morphology. Physical Review E, 2016, 93, 052309.	0.8	19
66	Intrinsic Finite-Size Effects in the Two-DimensionalXYModel with Irrational Frustration. Physical Review Letters, 2000, 85, 3484-3487.	2.9	18
67	1 â^• f spectrum and memory function analysis of solvation dynamics in a room-temperature ionic liquid. Journal of Chemical Physics, 2008, 128, 174504.	1.2	18
68	Emergence of Criticality in the Transportation Passenger Flow: Scaling and Renormalization in the Seoul Bus System. PLoS ONE, 2014, 9, e89980.	1.1	18
69	Anomalous relaxation in theXYgauge glass. Physical Review B, 1997, 56, 6007-6012.	1.1	17
70	Fluctuation effects on critical behavior of Josephson-junction arrays. Physical Review B, 1985, 32, 7173-7178.	1.1	16
71	Weibull-type limiting distribution for replicative systems. Physical Review E, 2011, 83, 031123.	0.8	16
72	Accessibility Measurement in Transportation Networks and Application to the Seoul Bus System. Geographical Analysis, 2019, 51, 339-353.	1.9	16

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73	Mathematical model for glucose regulation in the whole-body system. Islets, 2012, 4, 84-93.	0.9	15
74	A model for the receptive field of retinal ganglion cells. Neural Networks, 2014, 49, 51-58.	3.3	15
75	Phase transitions in a dynamic model of neural networks. Physical Review A, 1991, 43, 1079-1089.	1.0	14
76	Conformational Dynamics and Ligand Binding in the Multi-Domain Protein PDC109. PLoS ONE, 2010, 5, e9180.	1.1	14
77	Master equation approach to the intra-urban passenger flow and application to the Metropolitan Seoul Subway system. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 115007.	0.7	14
78	Autophagy mediates phase transitions from cell death to life. Heliyon, 2015, 1, e00027.	1.4	14
79	Double transitions in the fully frustrated XY model. Physical Review B, 1997, 55, 14088-14091.	1.1	13
80	Potts-glass model of layered feedforward neural networks. Physical Review A, 1992, 45, 1238-1248.	1.0	12
81	Dual Aharonov-Casher effect and persistent dipole current. Physical Review B, 1995, 52, 7838-7840.	1.1	12
82	Comment on "Glassiness in a Model without Energy Barriers― Physical Review Letters, 1996, 76, 4648-4648.	2.9	12
83	Quantum phase transitions in superconducting arrays with general capacitance matrices. Physical Review B, 1997, 56, 395-409.	1.1	12
84	Optimal size of a complex network. Physical Review E, 2003, 67, 046101.	0.8	12
85	Computational modeling of the effects of autophagy on amyloid-β peptide levels. Theoretical Biology and Medical Modelling, 2020, 17, 2.	2.1	12
86	Sleepless in Seoul: ¡®The Ant and the Metrohopper¡Â⁻. Journal of the Korean Physical Society, 2010, 57, 823-825.	0.3	12
87	Phase transition in superconducting arrays with external currents. Physical Review B, 1991, 44, 10411-10413.	1.1	11
88	Synchronization and resonance in a driven system of coupled oscillators. Physical Review E, 1999, 60, 4014-4020.	0.8	11
89	Spatiotemporal stochastic resonance in fully frustrated Josephson ladders. Physical Review B, 2001, 63, .	1.1	11
90	Netons: vibrations of complex networks. Journal of Physics A, 2003, 36, 6329-6336.	1.6	11

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91	Dynamic transition and Shapiro-step melting in a frustrated Josephson-junction array. Physical Review B, 2004, 69, .	1.1	11
92	Dynamics of macroautophagy: Modeling and oscillatory behavior. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 686-692.	1.2	11
93	Dynamics of analyst forecasts and emergence of complexity: Role of information disparity. PLoS ONE, 2017, 12, e0177071.	1.1	11
94	Phase transition in theXYgauge glass. Physical Review B, 1995, 51, 16211-16219.	1.1	10
95	Dynamic transition and resonance in current-driven arrays of Josephson junctions. Physical Review B, 2002, 66, .	1.1	10
96	Relaxation and coarsening dynamics in superconducting arrays. Physical Review B, 2003, 67, .	1.1	10
97	Spontaneous organization of the cortical structure through endogenous neural firing and gap junction transmission. Neural Networks, 2012, 31, 46-52.	3.3	10
98	Origin of the spike-timing–dependent plasticity rule. Europhysics Letters, 2016, 115, 38001.	0.7	10
99	Topological interpretation of subharmonic mode locking in coupled oscillators with inertia. Physical Review B, 2001, 64, .	1.1	9
100	Frequency resonance in Josephson-junction arrays driven by high alternating currents. Physical Review B, 2003, 68, .	1.1	9
101	Glucose metabolism and oscillatory behavior of pancreatic islets. Physical Review E, 2005, 72, 051905.	0.8	9
102	Dynamic critical behaviors in two-dimensional Josephson junction arrays with positional disorder. Physical Review B, 2006, 74, .	1.1	9
103	Equalization of Synaptic Efficacy by Synchronous Neural Activity. Physical Review Letters, 2007, 99, 208102.	2.9	9
104	Emergent topologies in activity-dependent self-organizing networks. Europhysics Letters, 2011, 95, 58005.	0.7	9
105	Mathematical models for insulin secretion in pancreatic β-cells. Islets, 2012, 4, 94-107.	0.9	9
106	Finite-temperature phase transitions in the ionic Hubbard model. Physical Review B, 2014, 89, .	1.1	9
107	Discriminating between Weibull distributions and log-normal distributions emerging in branching processes. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 225101.	0.7	9
108	Quantitative indices of autophagy activity from minimal models. Theoretical Biology and Medical Modelling, 2014, 11, 31.	2.1	9

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109	Cryptocurrency: Not far from equilibrium. Technological Forecasting and Social Change, 2022, 177, 121424.	6.2	9
110	Glass behavior of superconducting arrays: Novel finite-size effects. Physical Review B, 1989, 40, 5147-5150.	1.1	8
111	Novel transition between critical and localized states in a one-dimensional quasiperiodic system. Physical Review B, 1989, 40, 2581-2584.	1.1	8
112	Dynamic model of neural networks with asymmetric diluted couplings. Physical Review A, 1990, 41, 7062-7065.	1.0	8
113	Subharmonic structure of Shapiro steps in frustrated superconducting arrays. Physical Review B, 1995, 52, 13536-13546.	1.1	8
114	Quantum phase transitions and persistent currents in Josephson-junction ladders. Physical Review B, 2003, 68, .	1.1	8
115	Slow relaxation in the Ising model on a small-world network with strong long-range interactions. Physical Review E, 2005, 71, 036103.	0.8	8
116	Mathematical model of the glucose–insulin regulatory system: From the bursting electrical activity in pancreatic β-cells to the glucose dynamics in the whole body. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 3150-3157.	0.9	8
117	A dynamical model for the stick-slip behaviour of faults. Journal of Physics C: Solid State Physics, 1984, 17, L673-L677.	1.5	7
118	Quantum diffusion in the generalized Harper equation. Journal of Physics A, 1998, 31, 1353-1364.	1.6	7
119	Brain networks: Graph theoretical analysis and development models. International Journal of Imaging Systems and Technology, 2010, 20, 108-116.	2.7	7
120	General solution of the Black–Scholes boundary-value problem. Physica A: Statistical Mechanics and Its Applications, 2018, 509, 546-550.	1.2	7
121	Characterization of dynamics and information processing of integrate-and-fire neuron models. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 445601.	0.7	7
122	Dissipation effects on superconducting arrays. Physical Review B, 1990, 42, 80-86.	1.1	6
123	Capacitively coupled Josephson-junction chains: straight versus slanted coupling. Journal of Physics Condensed Matter, 2000, 12, 943-957.	0.7	6
124	Noise-enhanced temporal association in neural networks. Physical Review E, 2002, 65, 036114.	0.8	6
125	Dynamic transitions and resonances in Josephson-junction arrays under oscillating magnetic fields. Physical Review B, 2002, 65, .	1.1	6
126	Exact quantum description of the Aharonov–Bohm effect. Current Applied Physics, 2004, 4, 267-271.	1.1	6

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127	Dynamic characteristics of tweeting and tweet topics. Journal of the Korean Physical Society, 2012, 60, 590-594.	0.3	6
128	Emergence of heavy-tailed skew distributions from the heat equation. Physica A: Statistical Mechanics and Its Applications, 2017, 470, 88-93.	1.2	6
129	Time evolution of entropy in a growth model: Dependence on the description. Journal of the Korean Physical Society, 2017, 70, 12-21.	0.3	6
130	Functional Organization for Direction Preference in Relation to Orientation and Ocular Dominance Maps. Journal of the Korean Physical Society, 2009, 55, 2532-2536.	0.3	6
131	Phase transitions of a quasiperiodic Josephson-junction array in magnetic fields. Physical Review B, 1988, 38, 11476-11480.	1.1	5
132	Bloch oscillation and topological quantization. Physical Review B, 1994, 50, 13875-13878.	1.1	5
133	Entropic sampling and natural selection in biological evolution. Journal of Physics A, 1997, 30, L749-L755.	1.6	5
134	Quantum phase transitions in superconducting arrays under external magnetic fields. Physical Review B, 1998, 58, 14524-14530.	1.1	5
135	Temporal association in a network of neuronal oscillators. Journal of Physics A, 2001, 34, 5021-5031.	1.6	5
136	Dynamic model of fiber bundles. Europhysics Letters, 2004, 66, 62-68.	0.7	5
137	Dynamic model for failures in biological systems. Europhysics Letters, 2005, 71, 501-507.	0.7	5
138	Scale-free dynamics emerging from information transfer. Europhysics Letters, 2005, 69, 503-509.	0.7	5
139	Dynamics of interval fragmentation and asymptotic distributions. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 225002.	0.7	5
140	Information-sharing tendency on Twitter and time evolution of tweeting. Europhysics Letters, 2013, 101, 58004.	0.7	5
141	COMPUTER SIMULATIONS UNVEIL THE DYNAMICS OF AUTOPHAGY AND ITS IMPLICATIONS FOR THE CELLULAR QUALITY CONTROL. Journal of Biological Systems, 2014, 22, 659-675.	0.5	5
142	On the dynamics of traveling phase-oscillators with positive and negative couplings. Journal of the Korean Physical Society, 2014, 65, 1738-1742.	0.3	5
143	Estimate of the phase transition line in the infinite-dimensional Hubbard model. Journal of the Korean Physical Society, 2014, 64, 268-276.	0.3	5
144	Spatiotemporal distributions of population in Seoul: joint influence of ridership and accessibility of the subway system. EPJ Data Science, 2021, 10, .	1.5	5

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145	The dissipative effects on stochasticity of the nonlinear oscillator. Physics Letters, Section A: General, Atomic and Solid State Physics, 1982, 89, 1-3.	0.9	4
146	Devil's Staircase in a Fully Frustrated Superconducting Array. Europhysics Letters, 1993, 23, 217-222.	0.7	4
147	Optimal storage capacity of neural networks at finite temperatures. Journal of Physics A, 1993, 26, 3741-3755.	1.6	4
148	Langevin dynamics, scale invariance, and granular flows. Physical Review E, 1993, 47, 137-142.	0.8	4
149	Stability of thermodynamic and dynamical order in a system of globally coupled rotors. Journal of Physics A, 2005, 38, 5659-5675.	1.6	4
150	Modulation of the boundary between hierarchically differentiated domains in a self-organizing neural system. Europhysics Letters, 2013, 101, 48004.	0.7	4
151	Emergent incommensurate correlations in frustrated ferromagnetic spin-1 chains. Physical Review B, 2017, 95, .	1.1	4
152	Predicting Energy Expenditure During Gradient Walking With a Foot Monitoring Device: Model-Based Approach. JMIR MHealth and UHealth, 2019, 7, e12335.	1.8	4
153	Systems of pancreatic beta-cells and glucose regulation. Frontiers in Bioscience - Landmark, 2008, Volume, 6421.	3.0	4
154	Behavioral Dynamics of Pedestrians Crossing between Two Moving Vehicles. Applied Sciences (Switzerland), 2020, 10, 859.	1.3	4
155	Synaptic noise in neural networks at finite temperatures. Journal of Physics A, 1993, 26, 3697-3705.	1.6	3
156	Fractional periods of persistent currents in frustrated systems. Physical Review B, 1995, 52, 13769-13772.	1.1	3
157	Frustration effects on supercurrents in annular arrays of superconductors. Physical Review B, 1997, 56, 2368-2371.	1.1	3
158	Renormalization-group study of gate charge effects in Josephson-junction chains. Physical Review B, 2001, 63, .	1.1	3
159	Health status and resonance in a model for living organisms under periodic stress and healing. Physical Review E, 2006, 73, 031905.	0.8	3
160	Criticality in the dynamic failure model. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 145101.	0.7	3
161	DYNAMIC TRANSITION AND RESONANCE IN COUPLED OSCILLATORS UNDER SYMMETRY-BREAKING FIELDS. International Journal of Modern Physics B, 2013, 27, 1350062.	1.0	3
162	Generalized hydromechanical model for stomatal responses to hydraulic perturbations. Journal of Theoretical Biology, 2014, 340, 119-130.	0.8	3

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163	General method to solve the heat equation. Physica A: Statistical Mechanics and Its Applications, 2016, 444, 530-537.	1.2	3
164	Phase transitions and relaxation dynamics of Ising models exchanging particles. Physica A: Statistical Mechanics and Its Applications, 2017, 466, 166-179.	1.2	3
165	Numerical study of entrainment of the human circadian system and recovery by light treatment. Theoretical Biology and Medical Modelling, 2018, 15, 5.	2.1	3
166	Statistical properties of human activity and criticality in active behavior. Europhysics Letters, 2019, 126, 68001.	0.7	3
167	Response Theory of Spiking Neural Networks. Journal of the Korean Physical Society, 2020, 77, 168-176.	0.3	3
168	Hub-Periphery Hierarchy in Bus Transportation Networks: Gini Coefficients and the Seoul Bus System. Sustainability, 2020, 12, 7297.	1.6	3
169	Failure of Arm Movement Control in Stroke Patients, Characterized by Loss of Complexity. PLoS ONE, 2015, 10, e0141996.	1.1	3
170	The structural aspects of neural dynamics and information flow. Frontiers in Bioscience, 2022, 27, 1.	0.8	3
171	Phase transitions of frustratedXYmodels on deformed square lattices. Physical Review B, 1988, 37, 7569-7574.	1.1	2
172	Domain-wall pinning in the incommensurate phase of sodium nitrite. Physical Review B, 1988, 37, 5874-5876.	1.1	2
173	Statistical-mechanical formulation of the Willshaw model with local inhibition. Physical Review A, 1991, 43, 7012-7018.	1.0	2
174	Triangular superconducting array with a quarter of the flux quantum per plaquette. Physical Review B, 1992, 46, 1240-1243.	1.1	2
175	Current responses and voltage fluctuations in Josephson-junction systems. Europhysics Letters, 1998, 43, 439-444.	0.7	2
176	Temporal association in neural networks at finite temperatures. Physical Review E, 1998, 58, 7761-7768.	0.8	2
177	Topological quantization and degeneracy in Josephson-junction arrays. Physical Review B, 2001, 63, .	1.1	2
178	Quantum and frustration effects on fluctuations of the inverse compressibility in two-dimensional Coulomb glasses. Physical Review B, 2002, 66, .	1.1	2
179	Phase transitions in models for coupled charge-density waves. Physical Review B, 2004, 69, .	1.1	2
180	Correspondences and quantum description of Aharonov–Bohm and Aharonov–Casher effects. Journal of Physics A, 2004, 37, 973-988.	1.6	2

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181	Critical currents for vortex defect motion in superconducting arrays. Physical Review B, 2005, 71, .	1.1	2
182	Collective oscillations, bicluster motion, and dynamical order in a system of globally coupled rotors with repulsive interactions. Physical Review E, 2006, 74, 056106.	0.8	2
183	Construction of equilibrium networks with an energy function. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 9723-9732.	0.7	2
184	Effects of neuronal loss in the dynamic model of neural networks. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 385102.	0.7	2
185	Connectivity effects in the dynamic model of neural networks. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 205003.	0.7	2
186	How cells grow and divide: mathematical analysis confirms demand for the cell cycle. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 135101.	0.7	2
187	Driving distributions and periodic synchronization-desynchronization in driven phase oscillators. Journal of the Korean Physical Society, 2014, 64, 11-15.	0.3	2
188	Traveling Speed of Clusters in the Kuramoto-Sakaguchi Model. Journal of the Korean Physical Society, 2018, 72, 342-347.	0.3	2
189	Effects of Janus Oscillators in the Kuramoto Model with Positive and Negative Couplings. Journal of the Korean Physical Society, 2019, 75, 443-447.	0.3	2
190	General solutions of the heat equation. Physica A: Statistical Mechanics and Its Applications, 2020, 539, 122914.	1.2	2
191	Generalized maximal entropy argument for the gravity law in human mobility. Europhysics Letters, 2020, 132, 48001.	0.7	2
192	Characterization of multiscale logic operations in the neural circuits. Frontiers in Bioscience, 2021, 26, 723.	0.8	2
193	Phase transition in a random array of Josephson junctions. Physical Review Letters, 1989, 63, 1023-1023.	2.9	1
194	Algebraic decay of correlations in neural networks. Physical Review A, 1992, 46, 5292-5295.	1.0	1
195	Vortex state and quantization in superconducting arrays. Physica B: Condensed Matter, 1996, 222, 358-363.	1.3	1
196	Fractional giant Shapiro resonances in frustrated systems driven by a time-dependent flux. Europhysics Letters, 1996, 35, 457-462.	0.7	1
197	Slow relaxation in superconducting arrays. Physica A: Statistical Mechanics and Its Applications, 2002, 315, 255-266.	1.2	1
198	Entropic sampling dynamics of the globally coupled kinetic Ising model. Journal of Physics A, 2005, 38, 2115-2122.	1.6	1

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199	Defect motion and lattice pinning barriers in Josephson-junction ladders. Physical Review B, 2006, 73, .	1.1	1
200	Noise effects on the health status in a dynamic failure model for living organisms. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 3319-3328.	0.7	1
201	Range of shortcuts in the dynamic model of neural networks. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 205001.	0.7	1
202	Comment on "Dynamical phase transition of a one-dimensional transport process including death― Physical Review E, 2010, 82, 013101.	0.8	1
203	Information exchange dynamics of the two-dimensionalXYmodel. Physical Review E, 2013, 88, 052134.	0.8	1
204	Traveling cluster pairs in a system of phase oscillators with positive and negative couplings under a periodic driving field. Journal of the Korean Physical Society, 2015, 67, 1524-1528.	0.3	1
205	Slope-reversed Mott transition in multiorbital systems. Physical Review B, 2015, 92, .	1.1	1
206	COEXISTENCE OF THREE OSCILLATORY MODES OF INSULIN SECRETION: MATHEMATICAL MODELING AND RELEVANCE TO GLUCOSE REGULATION. Journal of Biological Systems, 2017, 25, 341-368.	0.5	1
207	Interaction Effects on the Size Distribution in a Growth Model. Journal of the Korean Physical Society, 2018, 72, 327-334.	0.3	1
208	Generalized formulation of free energy and application to photosynthesis. Physica A: Statistical Mechanics and Its Applications, 2018, 493, 125-134.	1.2	1
209	Density distribution in two Ising systems with particle exchange. European Physical Journal B, 2018, 91, 1.	0.6	1
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