

György Szabó³

List of Publications by Year in descending order

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108
papers

10,944
citations

57631

44
h-index

29081

104
g-index

108
all docs

108
docs citations

108
times ranked

2426
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolutionary games on graphs. <i>Physics Reports</i> , 2007, 446, 97-216.	10.3	2,360
2	Evolutionary prisoner's dilemma game on a square lattice. <i>Physical Review E</i> , 1998, 58, 69-73.	0.8	1,261
3	Phase Transitions and Volunteering in Spatial Public Goods Games. <i>Physical Review Letters</i> , 2002, 89, 118101.	2.9	542
4	Phase diagrams for an evolutionary prisoner's dilemma game on two-dimensional lattices. <i>Physical Review E</i> , 2005, 72, 047107.	0.8	440
5	Game theory and physics. <i>American Journal of Physics</i> , 2005, 73, 405-414.	0.3	414
6	Cooperation enhanced by inhomogeneous activity of teaching for evolutionary Prisoner's Dilemma games. <i>Europhysics Letters</i> , 2007, 77, 30004.	0.7	381
7	Topology-independent impact of noise on cooperation in spatial public goods games. <i>Physical Review E</i> , 2009, 80, 056109.	0.8	321
8	Punish, but not too hard: how costly punishment spreads in the spatial public goods game. <i>New Journal of Physics</i> , 2010, 12, 083005.	1.2	314
9	Phase diagrams for the spatial public goods game with pool punishment. <i>Physical Review E</i> , 2011, 83, 036101.	0.8	309
10	Evolutionary Establishment of Moral and Double Moral Standards through Spatial Interactions. <i>PLoS Computational Biology</i> , 2010, 6, e1000758.	1.5	294
11	Cooperation in the noisy case: Prisoner's dilemma game on two types of regular random graphs. <i>Physical Review E</i> , 2006, 73, 067103.	0.8	287
12	Evolutionary prisoner's dilemma games with voluntary participation. <i>Physical Review E</i> , 2002, 66, 062903.	0.8	224
13	Defense Mechanisms of Empathetic Players in the Spatial Ultimatum Game. <i>Physical Review Letters</i> , 2012, 109, 078701.	2.9	188
14	Impact of aging on the evolution of cooperation in the spatial prisoner's dilemma game. <i>Physical Review E</i> , 2009, 80, 021901.	0.8	173
15	Restricted connections among distinguished players support cooperation. <i>Physical Review E</i> , 2008, 78, 066101.	0.8	166
16	Diversity of reproduction rate supports cooperation in the prisoner's dilemma game on complex networks. <i>European Physical Journal B</i> , 2008, 61, 505-509.	0.6	157
17	Rock-scissors-paper game on regular small-world networks. <i>Journal of Physics A</i> , 2004, 37, 2599-2609.	1.6	152
18	Prisoner's dilemma and public goods games in different geometries: Compulsory versus voluntary interactions. <i>Complexity</i> , 2003, 8, 31-38.	0.9	145

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19	Evolutionary prisoner's dilemma game on Newman-Watts networks. <i>Physical Review E</i> , 2008, 77, 026109.	0.8	122
20	Competition of individual and institutional punishments in spatial public goods games. <i>Physical Review E</i> , 2011, 84, 046106.	0.8	121
21	Selection of noise level in strategy adoption for spatial social dilemmas. <i>Physical Review E</i> , 2009, 80, 056112.	0.8	116
22	Cooperation for volunteering and partially random partnerships. <i>Physical Review E</i> , 2004, 69, 036107.	0.8	115
23	Cyclical interactions with alliance-specific heterogeneous invasion rates. <i>Physical Review E</i> , 2007, 75, 052102.	0.8	111
24	Defector-accelerated cooperativeness and punishment in public goods games with mutations. <i>Physical Review E</i> , 2010, 81, 057104.	0.8	110
25	Evolutionary prisoner's dilemma game on hierarchical lattices. <i>Physical Review E</i> , 2005, 71, 036133.	0.8	106
26	Cooperation in spatial prisoner's dilemma with two types of players for increasing number of neighbors. <i>Physical Review E</i> , 2009, 79, 016106.	0.8	96
27	Selection of dynamical rules in spatial Prisoner's Dilemma games. <i>Europhysics Letters</i> , 2009, 87, 18007.	0.7	89
28	Phase diagrams for three-strategy evolutionary prisoner's dilemma games on regular graphs. <i>Physical Review E</i> , 2009, 80, 056104.	0.8	88
29	Spatial evolutionary prisoner's dilemma game with three strategies and external constraints. <i>Physical Review E</i> , 2000, 62, 1095-1103.	0.8	83
30	Phase transition and selection in a four-species cyclic predator-prey model. <i>Physical Review E</i> , 2004, 69, 031911.	0.8	79
31	Selfishness, fraternity, and other-regarding preference in spatial evolutionary games. <i>Journal of Theoretical Biology</i> , 2012, 299, 81-87.	0.8	76
32	Dynamics of populations on the verge of extinction. <i>Oikos</i> , 2005, 109, 291-296.	1.2	75
33	Phase transitions for rock-scissors-paper game on different networks. <i>Physical Review E</i> , 2004, 70, 037102.	0.8	72
34	Phase transition in a spatial Lotka-Volterra model. <i>Physical Review E</i> , 2001, 63, 061904.	0.8	71
35	Diverging fluctuations in a spatial five-species cyclic dominance game. <i>Physical Review E</i> , 2013, 88, 022123.	0.8	70
36	Motion of influential players can support cooperation in Prisoner's Dilemma. <i>European Physical Journal B</i> , 2009, 71, 579-585.	0.6	69

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37	Evolutionary potential games on lattices. <i>Physics Reports</i> , 2016, 624, 1-60.	10.3	67
38	Accuracy in strategy imitations promotes the evolution of fairness in the spatial ultimatum game. <i>Europhysics Letters</i> , 2012, 100, 28005.	0.7	64
39	Defensive alliances in spatial models of cyclical population interactions. <i>Physical Review E</i> , 2001, 64, 042902.	0.8	61
40	Self-organizing patterns maintained by competing associations in a six-species predator-prey model. <i>Physical Review E</i> , 2008, 77, 041919.	0.8	56
41	Competing associations in six-species predator-prey models. <i>Journal of Physics A</i> , 2005, 38, 6689-6702.	1.6	54
42	Three-state cyclic voter model extended with Potts energy. <i>Physical Review E</i> , 2002, 65, 036115.	0.8	48
43	Segregation process and phase transition in cyclic predator-prey models with an even number of species. <i>Physical Review E</i> , 2007, 76, 051921.	0.8	47
44	Phase transitions induced by variation of invasion rates in spatial cyclic predator-prey models with four or six species. <i>Physical Review E</i> , 2008, 77, 011906.	0.8	46
45	Competing associations in bacterial warfare with two toxins. <i>Journal of Theoretical Biology</i> , 2007, 248, 736-744.	0.8	43
46	Thermal strain during Czocharalski growth. <i>Journal of Crystal Growth</i> , 1985, 73, 131-141.	0.7	38
47	Magnetic hysteresis in an Ising-like dipole-dipole model. <i>Physical Review B</i> , 1998, 58, 5584-5587.	1.1	37
48	Ordering in spatial evolutionary games for pairwise collective strategy updates. <i>Physical Review E</i> , 2010, 82, 026110.	0.8	32
49	Vortex dynamics in a three-state model under cyclic dominance. <i>Physical Review E</i> , 1999, 60, 3776-3780.	0.8	31
50	Four classes of interactions for evolutionary games. <i>Physical Review E</i> , 2015, 92, 022820.	0.8	26
51	Correlations induced by transport in one-dimensional lattice gas. <i>Physical Review A</i> , 1991, 44, 6375-6378.	1.0	22
52	Three-state Potts model in combination with the rock-scissors-paper game. <i>Physical Review E</i> , 2005, 71, 027102.	0.8	21
53	Coexistence of fraternity and egoism for spatial social dilemmas. <i>Journal of Theoretical Biology</i> , 2013, 317, 126-132.	0.8	21
54	Phase-transition study of a one-dimensional probabilistic site-exchange cellular automaton. <i>Physical Review E</i> , 1993, 48, 3168-3171.	0.8	19

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55	Probability currents and entropy production in nonequilibrium lattice systems. <i>Physical Review E</i> , 2010, 82, 011105.	0.8	19
56	Fourier decomposition of payoff matrix for symmetric three-strategy games. <i>Physical Review E</i> , 2014, 90, 042811.	0.8	18
57	Lattice gas model on tetrahedral sites of a BCC lattice. <i>Journal of Physics C: Solid State Physics</i> , 1986, 19, 3775-3787.	1.5	16
58	Branching annihilating random walk on random regular graphs. <i>Physical Review E</i> , 2000, 62, 7474-7477.	0.8	16
59	Generalized mean-field study of a driven lattice gas. <i>Physical Review E</i> , 1996, 53, 2196-2199.	0.8	15
60	Vertex dynamics during domain growth in three-state models. <i>Physical Review E</i> , 2004, 70, 027101.	0.8	15
61	Extended mean-field study of a stochastic cellular automaton. <i>Physical Review E</i> , 1994, 49, 2764-2768.	0.8	14
62	Survival of species in patchy landscapes: percolation in space and time. , 2007, , 409-440.		14
63	Growth of BCSCO single crystals by a slow-cooling flux method. <i>Journal of the Less Common Metals</i> , 1989, 155, 229-234.	0.9	13
64	Anisotropic ordering in a two-temperature lattice gas. <i>Physical Review E</i> , 1997, 55, 2255-2259.	0.8	13
65	Spreading of families in cyclic predator-prey models. <i>Physical Review E</i> , 2004, 70, 012901.	0.8	13
66	Payoff components and their effects in a spatial three-strategy evolutionary social dilemma. <i>Physical Review E</i> , 2015, 92, 012813.	0.8	13
67	Extension of a spatial evolutionary coordination game with neutral options. <i>Physical Review E</i> , 2016, 93, 052108.	0.8	13
68	Social dilemmas in multistrategy evolutionary potential games. <i>Physical Review E</i> , 2018, 97, 012305.	0.8	13
69	Generalized contact process on random environments. <i>Physical Review E</i> , 2002, 65, 066111.	0.8	12
70	Evolutionary matching-pennies game on bipartite regular networks. <i>Physical Review E</i> , 2014, 89, 042820.	0.8	12
71	Breaking of forward-backward symmetry in driven systems. <i>Physical Review E</i> , 1993, 48, 611-613.	0.8	11
72	Anisotropic polydomain structure in a driven lattice gas with repulsive interaction. <i>Physical Review E</i> , 1994, 49, 299-304.	0.8	11

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73	Influence of extended dynamics on phase transitions in a driven lattice gas. <i>Physical Review E</i> , 2002, 65, 047101.	0.8	10
74	The role of mixed strategies in spatial evolutionary games. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 462, 198-206.	1.2	10
75	Evolutionary games with coordination and self-dependent interactions. <i>Physical Review E</i> , 2017, 95, 012303.	0.8	10
76	Transport-driven reorientation in a square lattice-gas model. <i>Physical Review A</i> , 1990, 41, 2235-2238.	1.0	9
77	Bursts in three-strategy evolutionary ordinal potential games on a square lattice. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 525, 1379-1387.	1.2	9
78	Heat diffusivity and heat conductivity of Ni near the Curie point. <i>Solid State Communications</i> , 1977, 21, 487-490.	0.9	8
79	Hysteresis modeling. <i>Journal of Magnetism and Magnetic Materials</i> , 2000, 215-216, 592-596.	1.0	8
80	Congestion phenomena caused by matching pennies in evolutionary games. <i>Physical Review E</i> , 2015, 91, 032110.	0.8	8
81	Separation of cyclic and starlike hierarchical dominance in evolutionary matrix games. <i>Physical Review E</i> , 2017, 95, 012320.	0.8	8
82	Self-organizing domain structure in a driven lattice gas. <i>Physical Review E</i> , 1997, 55, 5275-5279.	0.8	7
83	Branching annihilating random walks with parity conservation on a square lattice. <i>Physical Review E</i> , 1999, 59, R2509-R2511.	0.8	7
84	Self-organizing patterns in an evolutionary rock-paper-scissors game for stochastic synchronized strategy updates. <i>Physical Review E</i> , 2014, 90, 042920.	0.8	7
85	Evolutionary games combining two or three pair coordinations on a square lattice. <i>Physical Review E</i> , 2017, 96, 042101.	0.8	7
86	Fluctuations of melt temperature and growth rate during Bi ₄ Ge ₃ O ₁₂ growth. <i>Journal of Crystal Growth</i> , 1986, 79, 303-307.	0.7	5
87	Orientation in a driven lattice gas. <i>Physical Review B</i> , 1992, 46, 11432-11438.	1.1	5
88	Experimental model of magnetic Czochochalski growth. <i>Journal of Crystal Growth</i> , 1986, 78, 558-560.	0.7	4
89	Evolution and extinction of families in cellular automata. <i>Physical Review E</i> , 1994, 49, 5900-5902.	0.8	4
90	Domain growth controlled by interfacial transport in two-dimensional systems. <i>Physical Review E</i> , 1998, 57, 6172-6175.	0.8	4

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91	Anisotropic invasion and its consequences in two-strategy evolutionary games on a square lattice. <i>Physical Review E</i> , 2016, 94, 052314.	0.8	4
92	Entropy Affects the Competition of Ordered Phases. <i>Entropy</i> , 2018, 20, 115.	1.1	4
93	A lattice-gas model for alkali-metal fullerenes: face-centred-cubic structure. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 10959-10971.	0.7	3
94	Hysteresis in a dipolar Ising model. <i>Physica B: Condensed Matter</i> , 2000, 275, 187-190.	1.3	3
95	Interplay of Elementary Interactions Causing Social Traps in Evolutionary Games. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	3
96	General features of Nash equilibria in combinations of elementary interactions in symmetric two-person games. <i>European Physical Journal B</i> , 2021, 94, 1.	0.6	3
97	Coupled-chain approximation for driven lattice-gas models. <i>Physical Review B</i> , 1993, 47, 8260-8262.	1.1	2
98	Instabilities and pattern formation in driven diffusive systems. <i>Physical Review E</i> , 1994, 49, 3508-3511.	0.8	2
99	Statistical analyses of cyclic and starlike hierarchical dominances in directed graphs. <i>Physical Review E</i> , 2019, 100, 032301.	0.8	2
100	Influence of temperature oscillation on measured crystal weight during Czochralski growth. <i>Journal of Crystal Growth</i> , 1987, 83, 599-601.	0.7	1
101	Monte carlo simulation of a coulomb gas in simple cubic lattice. <i>Solid State Ionics</i> , 1988, 28-30, 86-88.	1.3	1
102	Monte Carlo simulation of reorientation driven by oxygen transport in YBa ₂ Cu ₃ O _{6.5} . <i>Physical Review B</i> , 1991, 43, 13614-13617.	1.1	1
103	Universality change in stochastic cellular automaton with applied site exchange. <i>Physical Review E</i> , 1994, 49, R3555-R3557.	0.8	1
104	A lattice-gas model for alkali-metal fullerenes: body-centred-cubic structure. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 4211-4219.	0.7	1
105	A cellular automaton with two phase transitions. <i>Journal of Physics A</i> , 2002, 35, L189-L192.	1.6	1
106	Games, graphs and Kirchhoff laws. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 521, 416-423.	1.2	1
107	Thermodynamic aspects of chemically curved crystals. <i>Journal of Materials Science</i> , 1989, 24, 2295-2299.	1.7	0
108	Mechanisms Supporting Cooperation for the Evolutionary Prisoner's Dilemma Games. <i>New Economic Windows</i> , 2010, , 24-31.	1.0	0