

Attila Szolnoki

List of Publications by Year in descending order

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Version: 2024-02-01

160
papers

18,768
citations

12303

69
h-index

11581

135
g-index

161
all docs

161
docs citations

161
times ranked

3266
citing authors

#	ARTICLE	IF	CITATIONS
1	Coevolutionary games – A mini review. <i>BioSystems</i> , 2010, 99, 109-125.	0.9	1,630
2	Statistical physics of human cooperation. <i>Physics Reports</i> , 2017, 687, 1-51.	10.3	1,036
3	Evolutionary dynamics of group interactions on structured populations: a review. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20120997.	1.5	1,023
4	Social diversity and promotion of cooperation in the spatial prisoner's dilemma game. <i>Physical Review E</i> , 2008, 77, 011904.	0.8	626
5	Evolutionary games on multilayer networks: a colloquium. <i>European Physical Journal B</i> , 2015, 88, 1.	0.6	604
6	Reward and cooperation in the spatial public goods game. <i>Europhysics Letters</i> , 2010, 92, 38003.	0.7	479
7	Phase diagrams for an evolutionary prisoner's dilemma game on two-dimensional lattices. <i>Physical Review E</i> , 2005, 72, 047107.	0.8	440
8	Cyclic dominance in evolutionary games: a review. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140735.	1.5	392
9	Cooperation enhanced by inhomogeneous activity of teaching for evolutionary Prisoner's Dilemma games. <i>Europhysics Letters</i> , 2007, 77, 30004.	0.7	381
10	Interdependent network reciprocity in evolutionary games. <i>Scientific Reports</i> , 2013, 3, 1183.	1.6	368
11	Topology-independent impact of noise on cooperation in spatial public goods games. <i>Physical Review E</i> , 2009, 80, 056109.	0.8	321
12	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
13	Phase diagrams for the spatial public goods game with pool punishment. <i>Physical Review E</i> , 2011, 83, 036101.	0.8	309
14	Evolution of public cooperation on interdependent networks: The impact of biased utility functions. <i>Europhysics Letters</i> , 2012, 97, 48001.	0.7	306
15	Evolutionary Establishment of Moral and Double Moral Standards through Spatial Interactions. <i>PLoS Computational Biology</i> , 2010, 6, e1000758.	1.5	294
16	Coevolution of teaching activity promotes cooperation. <i>New Journal of Physics</i> , 2008, 10, 043036.	1.2	289
17	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
18	Towards effective payoffs in the prisoner's dilemma game on scale-free networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 2075-2082.	1.2	260

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19	Resolving social dilemmas on evolving random networks. <i>Europhysics Letters</i> , 2009, 86, 30007.	0.7	236
20	Optimal interdependence between networks for the evolution of cooperation. <i>Scientific Reports</i> , 2013, 3, 2470.	1.6	236
21	Making new connections towards cooperation in the prisoner's dilemma game. <i>Europhysics Letters</i> , 2008, 84, 50007.	0.7	218
22	Rewarding evolutionary fitness with links between populations promotes cooperation. <i>Journal of Theoretical Biology</i> , 2014, 349, 50-56.	0.8	203
23	Conformity enhances network reciprocity in evolutionary social dilemmas. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20141299.	1.5	191
24	Probabilistic sharing solves the problem of costly punishment. <i>New Journal of Physics</i> , 2014, 16, 083016.	1.2	190
25	Defense Mechanisms of Empathetic Players in the Spatial Ultimatum Game. <i>Physical Review Letters</i> , 2012, 109, 078701.	2.9	188
26	Self-organization towards optimally interdependent networks by means of coevolution. <i>New Journal of Physics</i> , 2014, 16, 033041.	1.2	187
27	Competition and cooperation among different punishing strategies in the spatial public goods game. <i>Physical Review E</i> , 2015, 92, 012819.	0.8	187
28	Self-organization of punishment in structured populations. <i>New Journal of Physics</i> , 2012, 14, 043013.	1.2	186
29	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
30	Promoting cooperation in social dilemmas via simple coevolutionary rules. <i>European Physical Journal B</i> , 2009, 67, 337-344.	0.6	172
31	Wisdom of groups promotes cooperation in evolutionary social dilemmas. <i>Scientific Reports</i> , 2012, 2, 576.	1.6	170
32	If players are sparse social dilemmas are too: Importance of percolation for evolution of cooperation. <i>Scientific Reports</i> , 2012, 2, 369.	1.6	170
33	Emergence of multilevel selection in the prisoner's dilemma game on coevolving random networks. <i>New Journal of Physics</i> , 2009, 11, 093033.	1.2	167
34	Restricted connections among distinguished players support cooperation. <i>Physical Review E</i> , 2008, 78, 066101.	0.8	166
35	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
36	Rock-scissors-paper game on regular small-world networks. <i>Journal of Physics A</i> , 2004, 37, 2599-2609.	1.6	152

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37	Conditional strategies and the evolution of cooperation in spatial public goods games. <i>Physical Review E</i> , 2012, 85, 026104.	0.8	140
38	Risk-driven migration and the collective-risk social dilemma. <i>Physical Review E</i> , 2012, 86, 036101.	0.8	134
39	Effectiveness of conditional punishment for the evolution of public cooperation. <i>Journal of Theoretical Biology</i> , 2013, 325, 34-41.	0.8	132
40	Evolution of extortion in structured populations. <i>Physical Review E</i> , 2014, 89, 022804.	0.8	130
41	Impact of critical mass on the evolution of cooperation in spatial public goods games. <i>Physical Review E</i> , 2010, 81, 057101.	0.8	129
42	Group-size effects on the evolution of cooperation in the spatial public goods game. <i>Physical Review E</i> , 2011, 84, 047102.	0.8	126
43	Evolutionary advantages of adaptive rewarding. <i>New Journal of Physics</i> , 2012, 14, 093016.	1.2	126
44	Information sharing promotes prosocial behaviour. <i>New Journal of Physics</i> , 2013, 15, 053010.	1.2	124
45	Evolutionary prisoner's dilemma game on Newman-Watts networks. <i>Physical Review E</i> , 2008, 77, 026109.	0.8	122
46	Percolation threshold determines the optimal population density for public cooperation. <i>Physical Review E</i> , 2012, 85, 037101.	0.8	122
47	Competition of individual and institutional punishments in spatial public goods games. <i>Physical Review E</i> , 2011, 84, 046106.	0.8	121
48	Competition of tolerant strategies in the spatial public goods game. <i>New Journal of Physics</i> , 2016, 18, 083021.	1.2	119
49	Punishment and inspection for governing the commons in a feedback-evolving game. <i>PLoS Computational Biology</i> , 2018, 14, e1006347.	1.5	118
50	Selection of noise level in strategy adoption for spatial social dilemmas. <i>Physical Review E</i> , 2009, 80, 056112.	0.8	116
51	Cyclical interactions with alliance-specific heterogeneous invasion rates. <i>Physical Review E</i> , 2007, 75, 052102.	0.8	111
52	Defector-accelerated cooperativeness and punishment in public goods games with mutations. <i>Physical Review E</i> , 2010, 81, 057104.	0.8	110
53	Antisocial pool rewarding does not deter public cooperation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20151975.	1.2	103
54	Leaders should not be conformists in evolutionary social dilemmas. <i>Scientific Reports</i> , 2016, 6, 23633.	1.6	100

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55	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
56	Defection and extortion as unexpected catalysts of unconditional cooperation in structured populations. <i>Scientific Reports</i> , 2014, 4, 5496.	1.6	96
57	Noise-guided evolution within cyclical interactions. <i>New Journal of Physics</i> , 2007, 9, 267-267.	1.2	95
58	Coevolutionary success-driven multigames. <i>Europhysics Letters</i> , 2014, 108, 28004.	0.7	92
59	Different perceptions of social dilemmas: Evolutionary multigames in structured populations. <i>Physical Review E</i> , 2014, 90, 032813.	0.8	92
60	Selection of dynamical rules in spatial Prisoner's Dilemma games. <i>Europhysics Letters</i> , 2009, 87, 18007.	0.7	89
61	Phase diagrams for three-strategy evolutionary prisoner's dilemma games on regular graphs. <i>Physical Review E</i> , 2009, 80, 056104.	0.8	88
62	Imitating emotions instead of strategies in spatial games elevates social welfare. <i>Europhysics Letters</i> , 2011, 96, 38002.	0.7	88
63	Evolution of emotions on networks leads to the evolution of cooperation in social dilemmas. <i>Physical Review E</i> , 2013, 87, 042805.	0.8	84
64	Alliance formation with exclusion in the spatial public goods game. <i>Physical Review E</i> , 2017, 95, 052316.	0.8	82
65	Selfishness, fraternity, and other-regarding preference in spatial evolutionary games. <i>Journal of Theoretical Biology</i> , 2012, 299, 81-87.	0.8	76
66	Evolutionary dynamics of cooperation in a population with probabilistic corrupt enforcers and violators. <i>Mathematical Models and Methods in Applied Sciences</i> , 2019, 29, 2127-2149.	1.7	76
67	Phase transitions for rock-scissors-paper game on different networks. <i>Physical Review E</i> , 2004, 70, 037102.	0.8	72
68	A double-edged sword: Benefits and pitfalls of heterogeneous punishment in evolutionary inspection games. <i>Scientific Reports</i> , 2015, 5, 11027.	1.6	71
69	Collective influence in evolutionary social dilemmas. <i>Europhysics Letters</i> , 2016, 113, 58004.	0.7	71
70	Dynamically generated cyclic dominance in spatial prisoner's dilemma games. <i>Physical Review E</i> , 2010, 82, 036110.	0.8	70
71	Diverging fluctuations in a spatial five-species cyclic dominance game. <i>Physical Review E</i> , 2013, 88, 022123.	0.8	70
72	Benefits of tolerance in public goods games. <i>Physical Review E</i> , 2015, 92, 042813.	0.8	70

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73	Evolutionary dynamics of cooperation in neutral populations. <i>New Journal of Physics</i> , 2018, 20, 013031.	1.2	70
74	Accuracy in strategy imitations promotes the evolution of fairness in the spatial ultimatum game. <i>Europhysics Letters</i> , 2012, 100, 28005.	0.7	64
75	Second-Order Free-Riding on Antisocial Punishment Restores the Effectiveness of Prosocial Punishment. <i>Physical Review X</i> , 2017, 7, .	2.8	63
76	Competitions between prosocial exclusions and punishments in finite populations. <i>Scientific Reports</i> , 2017, 7, 46634.	1.6	61
77	Zealots tame oscillations in the spatial rock-paper-scissors game. <i>Physical Review E</i> , 2016, 93, 062307.	0.8	60
78	Environmental feedback drives cooperation in spatial social dilemmas. <i>Europhysics Letters</i> , 2017, 120, 58001.	0.7	59
79	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
80	Stability of cooperation under image scoring in group interactions. <i>Scientific Reports</i> , 2015, 5, 12145.	1.6	56
81	Vortices determine the dynamics of biodiversity in cyclical interactions with protection spillovers. <i>New Journal of Physics</i> , 2015, 17, 113033.	1.2	54
82	Exploring optimal institutional incentives for public cooperation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 79, 104914.	1.7	54
83	Impact of generalized benefit functions on the evolution of cooperation in spatial public goods games with continuous strategies. <i>Physical Review E</i> , 2012, 85, 066133.	0.8	52
84	Reentrant phase transitions and defensive alliances in social dilemmas with informed strategies. <i>Europhysics Letters</i> , 2015, 110, 38003.	0.7	50
85	Imitate or innovate: Competition of strategy updating attitudes in spatial social dilemma games. <i>Europhysics Letters</i> , 2018, 121, 18002.	0.7	49
86	Competition and partnership between conformity and payoff-based imitations in social dilemmas. <i>New Journal of Physics</i> , 2018, 20, 093008.	1.2	49
87	Combination of institutional incentives for cooperative governance of risky commons. <i>IScience</i> , 2021, 24, 102844.	1.9	49
88	Three-state cyclic voter model extended with Potts energy. <i>Physical Review E</i> , 2002, 65, 036115.	0.8	48
89	Knowing the past improves cooperation in the future. <i>Scientific Reports</i> , 2019, 9, 262.	1.6	48
90	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

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91	Individual wealth-based selection supports cooperation in spatial public goods games. <i>Scientific Reports</i> , 2016, 6, 32802.	1.6	47
92	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
93	Correlation of Positive and Negative Reciprocity Fails to Confer an Evolutionary Advantage: Phase Transitions to Elementary Strategies. <i>Physical Review X</i> , 2013, 3, .	2.8	46
94	Decelerated invasion and waning-moon patterns in public goods games with delayed distribution. <i>Physical Review E</i> , 2013, 87, 054801.	0.8	46
95	Seasonal payoff variations and the evolution of cooperation in social dilemmas. <i>Scientific Reports</i> , 2019, 9, 12575.	1.6	44
96	Costly hide and seek pays: unexpected consequences of deceit in a social dilemma. <i>New Journal of Physics</i> , 2014, 16, 113003.	1.2	42
97	Pattern formations driven by cyclic interactions: A brief review of recent developments. <i>Europhysics Letters</i> , 2020, 131, 68001.	0.7	42
98	Biodiversity in models of cyclic dominance is preserved by heterogeneity in site-specific invasion rates. <i>Scientific Reports</i> , 2016, 6, 38608.	1.6	40
99	Dynamic-sensitive cooperation in the presence of multiple strategy updating rules. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 511, 371-377.	1.2	40
100	Central governance based on monitoring and reporting solves the collective-risk social dilemma. <i>Applied Mathematics and Computation</i> , 2019, 347, 334-341.	1.4	38
101	If Cooperation Is Likely Punish Mildly: Insights from Economic Experiments Based on the Snowdrift Game. <i>PLoS ONE</i> , 2013, 8, e64677.	1.1	37
102	The coevolution of overconfidence and bluffing in the resource competition game. <i>Scientific Reports</i> , 2016, 6, 21104.	1.6	37
103	Averting group failures in collective-risk social dilemmas. <i>Europhysics Letters</i> , 2012, 99, 68003.	0.7	36
104	From pairwise to group interactions in games of cyclic dominance. <i>Physical Review E</i> , 2014, 89, 062125.	0.8	36
105	Cooperation driven by success-driven group formation. <i>Physical Review E</i> , 2016, 94, 042311.	0.8	36
106	Gradual learning supports cooperation in spatial prisoner's dilemma game. <i>Chaos, Solitons and Fractals</i> , 2020, 130, 109447.	2.5	36
107	Role-separating ordering in social dilemmas controlled by topological frustration. <i>Physical Review E</i> , 2017, 95, 032307.	0.8	35
108	Ordering in spatial evolutionary games for pairwise collective strategy updates. <i>Physical Review E</i> , 2010, 82, 026110.	0.8	32

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109	Cooperator driven oscillation in a time-delayed feedback-evolving game. <i>New Journal of Physics</i> , 2021, 23, 053017.	1.2	32
110	Facilitators on networks reveal optimal interplay between information exchange and reciprocity. <i>Physical Review E</i> , 2014, 89, 042802.	0.8	30
111	Leaving bads provides better outcome than approaching goods in a social dilemma. <i>New Journal of Physics</i> , 2020, 22, 023012.	1.2	29
112	The self-organizing impact of averaged payoffs on the evolution of cooperation. <i>New Journal of Physics</i> , 2021, 23, 063068.	1.2	29
113	Binary birth-death dynamics and the expansion of cooperation by means of self-organized growth. <i>Europhysics Letters</i> , 2014, 105, 48001.	0.7	28
114	Mobility restores the mechanism which supports cooperation in the voluntary prisoner's dilemma game. <i>New Journal of Physics</i> , 2019, 21, 073038.	1.2	28
115	Strategy dependent learning activity in cyclic dominant systems. <i>Chaos, Solitons and Fractals</i> , 2020, 138, 109935.	2.5	28
116	Reciprocity-based cooperative phalanx maintained by overconfident players. <i>Physical Review E</i> , 2018, 98, 022309.	0.8	26
117	Early exclusion leads to cyclical cooperation in repeated group interactions. <i>Journal of the Royal Society Interface</i> , 2022, 19, 20210755.	1.5	24
118	Correlations induced by transport in one-dimensional lattice gas. <i>Physical Review A</i> , 1991, 44, 6375-6378.	1.0	22
119	Three-state Potts model in combination with the rock-scissors-paper game. <i>Physical Review E</i> , 2005, 71, 027102.	0.8	21
120	Coexistence of fraternity and egoism for spatial social dilemmas. <i>Journal of Theoretical Biology</i> , 2013, 317, 126-132.	0.8	21
121	Tactical cooperation of defectors in a multi-stage public goods game. <i>Chaos, Solitons and Fractals</i> , 2022, 155, 111696.	2.5	21
122	Blocking defector invasion by focusing on the most successful partner. <i>Applied Mathematics and Computation</i> , 2020, 385, 125430.	1.4	20
123	Cooperation and competition between pair and multi-player social games in spatial populations. <i>Scientific Reports</i> , 2021, 11, 12101.	1.6	20
124	Directed-percolation conjecture for cellular automata. <i>Physical Review E</i> , 1996, 53, 2231-2238.	0.8	19
125	Phase transitions in the kinetic Ising model with competing dynamics. <i>Physical Review E</i> , 2000, 62, 7466-7469.	0.8	18
126	Generalized mean-field study of a driven lattice gas. <i>Physical Review E</i> , 1996, 53, 2196-2199.	0.8	15

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127	Vertex dynamics during domain growth in three-state models. <i>Physical Review E</i> , 2004, 70, 027101.	0.8	15
128	Anisotropic ordering in a two-temperature lattice gas. <i>Physical Review E</i> , 1997, 55, 2255-2259.	0.8	13
129	Dynamical mean-field approximation for a pair contact process with a particle source. <i>Physical Review E</i> , 2002, 66, 057102.	0.8	13
130	Spreading of families in cyclic predator-prey models. <i>Physical Review E</i> , 2004, 70, 012901.	0.8	13
131	Phase transitions in dependence of apex predator decaying ratio in a cyclic dominant system. <i>Europhysics Letters</i> , 2018, 124, 68001.	0.7	13
132	Invasion-controlled pattern formation in a generalized multispecies predator-prey system. <i>Physical Review E</i> , 2019, 99, 052408.	0.8	13
133	Mercenary punishment in structured populations. <i>Applied Mathematics and Computation</i> , 2022, 417, 126797.	1.4	12
134	Breaking of forward-backward symmetry in driven systems. <i>Physical Review E</i> , 1993, 48, 611-613.	0.8	11
135	Anisotropic polydomain structure in a driven lattice gas with repulsive interaction. <i>Physical Review E</i> , 1994, 49, 299-304.	0.8	11
136	Influence of extended dynamics on phase transitions in a driven lattice gas. <i>Physical Review E</i> , 2002, 65, 047101.	0.8	10
137	Small fraction of selective cooperators can elevate general wellbeing significantly. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 582, 126222.	1.2	10
138	Transport-driven reorientation in a square lattice-gas model. <i>Physical Review A</i> , 1990, 41, 2235-2238.	1.0	9
139	Stationary state in a two-temperature model with competing dynamics. <i>Physical Review E</i> , 1999, 60, 2425-2428.	0.8	9
140	Breaking unidirectional invasions jeopardizes biodiversity in spatial May-Leonard systems. <i>Chaos, Solitons and Fractals</i> , 2020, 141, 110356.	2.5	9
141	Equal partners do better in defensive alliances. <i>Europhysics Letters</i> , 2020, 131, 58002.	0.7	9
142	Cluster mean-field study of the parity-conserving phase transition. <i>Physical Review E</i> , 2005, 71, 066128.	0.8	8
143	Congestion phenomena caused by matching pennies in evolutionary games. <i>Physical Review E</i> , 2015, 91, 032110.	0.8	8
144	Decentralized incentives for general well-being in networked public goods game. <i>Applied Mathematics and Computation</i> , 2022, 431, 127308.	1.4	8

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145	Self-organizing domain structure in a driven lattice gas. <i>Physical Review E</i> , 1997, 55, 5275-5279.	0.8	7
146	Involution game with spatio-temporal heterogeneity of social resources. <i>Applied Mathematics and Computation</i> , 2022, 430, 127307.	1.4	7
147	The power of games. <i>Physics of Life Reviews</i> , 2014, 11, 589-590.	1.5	6
148	Environment driven oscillation in an off-lattice Mayâ€Leonard model. <i>Scientific Reports</i> , 2021, 11, 12512.	1.6	6
149	Mobility driven coexistence of living organisms. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 572, 125854.	1.2	6
150	Orientation in a driven lattice gas. <i>Physical Review B</i> , 1992, 46, 11432-11438.	1.1	5
151	Non-equilibrium phase transition in a two-temperature lattice gas. <i>Journal of Physics A</i> , 1997, 30, 7791-7799.	1.6	5
152	Social dilemmas in off-lattice populations. <i>Chaos, Solitons and Fractals</i> , 2021, 144, 110743.	2.5	5
153	Game-theoretical approach for opinion dynamics on social networks. <i>Chaos</i> , 2022, 32, .	1.0	5
154	Effects of a pestilent species on the stability of cyclically dominant species. <i>Chaos, Solitons and Fractals</i> , 2021, 151, 111255.	2.5	4
155	Competition among alliances of different sizes. <i>Chaos, Solitons and Fractals</i> , 2022, 157, 111940.	2.5	4
156	INTERFACE INSTABILITY IN DRIVEN LATTICE GASES. <i>Fractals</i> , 1993, 01, 954-958.	1.8	3
157	Enhanced fluctuations in driven lattice gases. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992, 191, 445-448.	1.2	2
158	Coupled-chain approximation for driven lattice-gas models. <i>Physical Review B</i> , 1993, 47, 8260-8262.	1.1	2
159	How Much Interconnected Should Networks be for Cooperation to Thrive?. <i>Understanding Complex Systems</i> , 2016, , 125-139.	0.3	2
160	Mechanisms Supporting Cooperation for the Evolutionary Prisonerâ€™s Dilemma Games. <i>New Economic Windows</i> , 2010, , 24-31.	1.0	0