

Attila Szolnoki

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

157
papers

15,071
citations

62
h-index

121
g-index

161
ext. papers

16,843
ext. citations

3.3
avg, IF

7.4
L-index

#	Paper	IF	Citations
157	Mercenary punishment in structured populations. <i>Applied Mathematics and Computation</i> , 2022 , 417, 126197	9.3	3
156	Tactical cooperation of defectors in a multi-stage public goods game. <i>Chaos, Solitons and Fractals</i> , 2022 , 155, 111696	9.3	2
155	Competition among alliances of different sizes. <i>Chaos, Solitons and Fractals</i> , 2022 , 157, 111940	9.3	0
154	Early exclusion leads to cyclical cooperation in repeated group interactions.. <i>Journal of the Royal Society Interface</i> , 2022 , 19, 20210755	4.1	2
153	Social dilemmas in off-lattice populations. <i>Chaos, Solitons and Fractals</i> , 2021 , 144, 110743	9.3	4
152	Cooperator driven oscillation in a time-delayed feedback-evolving game. <i>New Journal of Physics</i> , 2021 , 23, 053017	2.9	2
151	The self-organizing impact of averaged payoffs on the evolution of cooperation. <i>New Journal of Physics</i> , 2021 , 23, 063068	2.9	13
150	Environment driven oscillation in an off-lattice May-Leonard model. <i>Scientific Reports</i> , 2021 , 11, 12512	4.9	2
149	Cooperation and competition between pair and multi-player social games in spatial populations. <i>Scientific Reports</i> , 2021 , 11, 12101	4.9	8
148	Mobility driven coexistence of living organisms. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021 , 572, 125854	3.3	3
147	Combination of institutional incentives for cooperative governance of risky commons. <i>IScience</i> , 2021 , 24, 102844	6.1	8
146	Effects of a pestilent species on the stability of cyclically dominant species. <i>Chaos, Solitons and Fractals</i> , 2021 , 151, 111255	9.3	2
145	Small fraction of selective cooperators can elevate general wellbeing significantly. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021 , 582, 126222	3.3	4
144	Strategy dependent learning activity in cyclic dominant systems. <i>Chaos, Solitons and Fractals</i> , 2020 , 138, 109935	9.3	17
143	Leaving bads provides better outcome than approaching goods in a social dilemma. <i>New Journal of Physics</i> , 2020 , 22, 023012	2.9	14
142	Breaking unidirectional invasions jeopardizes biodiversity in spatial May-Leonard systems. <i>Chaos, Solitons and Fractals</i> , 2020 , 141, 110356	9.3	5
141	Pattern formations driven by cyclic interactions: A brief review of recent developments. <i>Europhysics Letters</i> , 2020 , 131, 68001	1.6	25

140	Blocking defector invasion by focusing on the most successful partner. <i>Applied Mathematics and Computation</i> , 2020 , 385, 125430	2.7	9
139	Equal partners do better in defensive alliances. <i>Europhysics Letters</i> , 2020 , 131, 58002	1.6	6
138	Gradual learning supports cooperation in spatial prisoner's dilemma game. <i>Chaos, Solitons and Fractals</i> , 2020 , 130, 109447	9.3	21
137	Seasonal payoff variations and the evolution of cooperation in social dilemmas. <i>Scientific Reports</i> , 2019 , 9, 12575	4.9	28
136	Knowing the past improves cooperation in the future. <i>Scientific Reports</i> , 2019 , 9, 262	4.9	25
135	Invasion-controlled pattern formation in a generalized multispecies predator-prey system. <i>Physical Review E</i> , 2019 , 99, 052408	2.4	10
134	Mobility restores the mechanism which supports cooperation in the voluntary prisoner's dilemma game. <i>New Journal of Physics</i> , 2019 , 21, 073038	2.9	16
133	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	3.5	38
132	Exploring optimal institutional incentives for public cooperation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019 , 79, 104914	3.7	27
131	Central governance based on monitoring and reporting solves the collective-risk social dilemma. <i>Applied Mathematics and Computation</i> , 2019 , 347, 334-341	2.7	25
130	Imitate or innovate: Competition of strategy updating attitudes in spatial social dilemma games. <i>Europhysics Letters</i> , 2018 , 121, 18002	1.6	35
129	Dynamic-sensitive cooperation in the presence of multiple strategy updating rules. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 511, 371-377	3.3	23
128	Reciprocity-based cooperative phalanx maintained by overconfident players. <i>Physical Review E</i> , 2018 , 98, 022309	2.4	15
127	Phase transitions in dependence of apex predator decaying ratio in a cyclic dominant system. <i>Europhysics Letters</i> , 2018 , 124, 68001	1.6	11
126	Competition and partnership between conformity and payoff-based imitations in social dilemmas. <i>New Journal of Physics</i> , 2018 , 20, 093008	2.9	36
125	Punishment and inspection for governing the commons in a feedback-evolving game. <i>PLoS Computational Biology</i> , 2018 , 14, e1006347	5	74
124	Evolutionary dynamics of cooperation in neutral populations. <i>New Journal of Physics</i> , 2018 , 20, 013031	2.9	54
123	Role-separating ordering in social dilemmas controlled by topological frustration. <i>Physical Review E</i> , 2017 , 95, 032307	2.4	26

122	Competitions between prosocial exclusions and punishments in finite populations. <i>Scientific Reports</i> , 2017 , 7, 46634	4.9	43
121	Statistical physics of human cooperation. <i>Physics Reports</i> , 2017 , 687, 1-51	27.7	725
120	Second-Order Free-Riding on Antisocial Punishment Restores the Effectiveness of Prosocial Punishment. <i>Physical Review X</i> , 2017 , 7,	9.1	47
119	Alliance formation with exclusion in the spatial public goods game. <i>Physical Review E</i> , 2017 , 95, 052316	2.4	46
118	Environmental feedback drives cooperation in spatial social dilemmas. <i>Europhysics Letters</i> , 2017 , 120, 58001	1.6	28
117	Zealots tame oscillations in the spatial rock-paper-scissors game. <i>Physical Review E</i> , 2016 , 93, 062307	2.4	48
116	Individual wealth-based selection supports cooperation in spatial public goods games. <i>Scientific Reports</i> , 2016 , 6, 32802	4.9	40
115	Cooperation driven by success-driven group formation. <i>Physical Review E</i> , 2016 , 94, 042311	2.4	28
114	Leaders should not be conformists in evolutionary social dilemmas. <i>Scientific Reports</i> , 2016 , 6, 23633	4.9	79
113	Biodiversity in models of cyclic dominance is preserved by heterogeneity in site-specific invasion rates. <i>Scientific Reports</i> , 2016 , 6, 38608	4.9	35
112	Collective influence in evolutionary social dilemmas. <i>Europhysics Letters</i> , 2016 , 113, 58004	1.6	56
111	How Much Interconnected Should Networks be for Cooperation to Thrive?. <i>Understanding Complex Systems</i> , 2016 , 125-139	0.4	
110	Competition of tolerant strategies in the spatial public goods game. <i>New Journal of Physics</i> , 2016 , 18, 083021	2.9	92
109	The coevolution of overconfidence and bluffing in the resource competition game. <i>Scientific Reports</i> , 2016 , 6, 21104	4.9	25
108	Conformity enhances network reciprocity in evolutionary social dilemmas. <i>Journal of the Royal Society Interface</i> , 2015 , 12,	4.1	145
107	Reentrant phase transitions and defensive alliances in social dilemmas with informed strategies. <i>Europhysics Letters</i> , 2015 , 110, 38003	1.6	41
106	Antisocial pool rewarding does not deter public cooperation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015 , 282, 20151975	4.4	80
105	Competition and cooperation among different punishing strategies in the spatial public goods game. <i>Physical Review E</i> , 2015 , 92, 012819	2.4	142

104	Benefits of tolerance in public goods games. <i>Physical Review E</i> , 2015 , 92, 042813	2.4	57
103	A double-edged sword: Benefits and pitfalls of heterogeneous punishment in evolutionary inspection games. <i>Scientific Reports</i> , 2015 , 5, 11027	4.9	57
102	Stability of cooperation under image scoring in group interactions. <i>Scientific Reports</i> , 2015 , 5, 12145	4.9	49
101	Vortices determine the dynamics of biodiversity in cyclical interactions with protection spillovers. <i>New Journal of Physics</i> , 2015 , 17, 113033	2.9	45
100	Congestion phenomena caused by matching pennies in evolutionary games. <i>Physical Review E</i> , 2015 , 91, 032110	2.4	6
99	Evolutionary games on multilayer networks: a colloquium. <i>European Physical Journal B</i> , 2015 , 88, 1	1.2	507
98	Different perceptions of social dilemmas: evolutionary multigames in structured populations. <i>Physical Review E</i> , 2014 , 90, 032813	2.4	71
97	Defection and extortion as unexpected catalysts of unconditional cooperation in structured populations. <i>Scientific Reports</i> , 2014 , 4, 5496	4.9	67
96	Probabilistic sharing solves the problem of costly punishment. <i>New Journal of Physics</i> , 2014 , 16, 083016	2.9	142
95	Costly hide and seek pays: unexpected consequences of deceit in a social dilemma. <i>New Journal of Physics</i> , 2014 , 16, 113003	2.9	31
94	Self-organization towards optimally interdependent networks by means of coevolution. <i>New Journal of Physics</i> , 2014 , 16, 033041	2.9	158
93	Facilitators on networks reveal optimal interplay between information exchange and reciprocity. <i>Physical Review E</i> , 2014 , 89, 042802	2.4	22
92	From pairwise to group interactions in games of cyclic dominance. <i>Physical Review E</i> , 2014 , 89, 062125	2.4	30
91	Evolution of extortion in structured populations. <i>Physical Review E</i> , 2014 , 89, 022804	2.4	96
90	Binary birth-death dynamics and the expansion of cooperation by means of self-organized growth. <i>Europhysics Letters</i> , 2014 , 105, 48001	1.6	24
89	Coevolutionary success-driven multigames. <i>Europhysics Letters</i> , 2014 , 108, 28004	1.6	71
88	Cyclic dominance in evolutionary games: a review. <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20140735	4.35	297
87	Rewarding evolutionary fitness with links between populations promotes cooperation. <i>Journal of Theoretical Biology</i> , 2014 , 349, 50-6	2.3	182

86	The power of games: comment on "climate change governance, cooperation and self-organization" by Pacheco, Vasconcelos and Santos. <i>Physics of Life Reviews</i> , 2014 , 11, 589-90	2.1	5
85	Interdependent network reciprocity in evolutionary games. <i>Scientific Reports</i> , 2013 , 3, 1183	4.9	323
84	Coexistence of fraternity and egoism for spatial social dilemmas. <i>Journal of Theoretical Biology</i> , 2013 , 317, 126-32	2.3	17
83	Effectiveness of conditional punishment for the evolution of public cooperation. <i>Journal of Theoretical Biology</i> , 2013 , 325, 34-41	2.3	102
82	Evolution of emotions on networks leads to the evolution of cooperation in social dilemmas. <i>Physical Review E</i> , 2013 , 87, 042805	2.4	55
81	Evolutionary dynamics of group interactions on structured populations: a review. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20120997	4.1	815
80	Information sharing promotes prosocial behaviour. <i>New Journal of Physics</i> , 2013 , 15, 053010	2.9	104
79	Diverging fluctuations in a spatial five-species cyclic dominance game. <i>Physical Review E</i> , 2013 , 88, 0221234		60
78	Correlation of Positive and Negative Reciprocity Fails to Confer an Evolutionary Advantage: Phase Transitions to Elementary Strategies. <i>Physical Review X</i> , 2013 , 3,	9.1	39
77	Decelerated invasion and waning-moon patterns in public goods games with delayed distribution. <i>Physical Review E</i> , 2013 , 87, 054801	2.4	36
76	Optimal interdependence between networks for the evolution of cooperation. <i>Scientific Reports</i> , 2013 , 3, 2470	4.9	216
75	If cooperation is likely punish mildly: insights from economic experiments based on the snowdrift game. <i>PLoS ONE</i> , 2013 , 8, e64677	3.7	34
74	Selfishness, fraternity, and other-regarding preference in spatial evolutionary games. <i>Journal of Theoretical Biology</i> , 2012 , 299, 81-7	2.3	60
73	Defense mechanisms of empathetic players in the spatial ultimatum game. <i>Physical Review Letters</i> , 2012 , 109, 078701	7.4	161
72	Accuracy in strategy imitations promotes the evolution of fairness in the spatial ultimatum game. <i>Europhysics Letters</i> , 2012 , 100, 28005	1.6	55
71	Percolation threshold determines the optimal population density for public cooperation. <i>Physical Review E</i> , 2012 , 85, 037101	2.4	110
70	If players are sparse social dilemmas are too: Importance of percolation for evolution of cooperation. <i>Scientific Reports</i> , 2012 , 2, 369	4.9	156
69	Evolutionary advantages of adaptive rewarding. <i>New Journal of Physics</i> , 2012 , 14, 093016	2.9	92

68	Self-organization of punishment in structured populations. <i>New Journal of Physics</i> , 2012 , 14, 043013	2.9	130
67	Risk-driven migration and the collective-risk social dilemma. <i>Physical Review E</i> , 2012 , 86, 036101	2.4	105
66	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	2.4	43
65	Conditional strategies and the evolution of cooperation in spatial public goods games. <i>Physical Review E</i> , 2012 , 85, 026104	2.4	119
64	Evolution of public cooperation on interdependent networks: The impact of biased utility functions. <i>Europhysics Letters</i> , 2012 , 97, 48001	1.6	279
63	Averting group failures in collective-risk social dilemmas. <i>Europhysics Letters</i> , 2012 , 99, 68003	1.6	29
62	Wisdom of groups promotes cooperation in evolutionary social dilemmas. <i>Scientific Reports</i> , 2012 , 2, 576	4.9	155
61	Phase diagrams for the spatial public goods game with pool punishment. <i>Physical Review E</i> , 2011 , 83, 036101	2.4	240
60	Imitating emotions instead of strategies in spatial games elevates social welfare. <i>Europhysics Letters</i> , 2011 , 96, 38002	1.6	60
59	Group-size effects on the evolution of cooperation in the spatial public goods game. <i>Physical Review E</i> , 2011 , 84, 047102	2.4	107
58	Competition of individual and institutional punishments in spatial public goods games. <i>Physical Review E</i> , 2011 , 84, 046106	2.4	90
57	Defector-accelerated cooperativeness and punishment in public goods games with mutations. <i>Physical Review E</i> , 2010 , 81, 057104	2.4	89
56	Impact of critical mass on the evolution of cooperation in spatial public goods games. <i>Physical Review E</i> , 2010 , 81, 057101	2.4	105
55	Evolutionary establishment of moral and double moral standards through spatial interactions. <i>PLoS Computational Biology</i> , 2010 , 6, e1000758	5	237
54	Reward and cooperation in the spatial public goods game. <i>Europhysics Letters</i> , 2010 , 92, 38003	1.6	369
53	Punish, but not too hard: how costly punishment spreads in the spatial public goods game. <i>New Journal of Physics</i> , 2010 , 12, 083005	2.9	235
52	Dynamically generated cyclic dominance in spatial prisoner's dilemma games. <i>Physical Review E</i> , 2010 , 82, 036110	2.4	56
51	Ordering in spatial evolutionary games for pairwise collective strategy updates. <i>Physical Review E</i> , 2010 , 82, 026110	2.4	27

50	Mechanisms Supporting Cooperation for the Evolutionary Prisoner's Dilemma Games. <i>New Economic Windows</i> , 2010 , 24-31	0.5	
49	Coevolutionary games--a mini review. <i>BioSystems</i> , 2010 , 99, 109-25	1.9	1399
48	Impact of aging on the evolution of cooperation in the spatial prisoner's dilemma game. <i>Physical Review E</i> , 2009 , 80, 021901	2.4	142
47	Selection of noise level in strategy adoption for spatial social dilemmas. <i>Physical Review E</i> , 2009 , 80, 056112	1.2	104
46	Phase diagrams for three-strategy evolutionary prisoner's dilemma games on regular graphs. <i>Physical Review E</i> , 2009 , 80, 056104	2.4	77
45	Topology-independent impact of noise on cooperation in spatial public goods games. <i>Physical Review E</i> , 2009 , 80, 056109	2.4	263
44	Cooperation in spatial prisoner's dilemma with two types of players for increasing number of neighbors. <i>Physical Review E</i> , 2009 , 79, 016106	2.4	90
43	Emergence of multilevel selection in the prisoner's dilemma game on coevolving random networks. <i>New Journal of Physics</i> , 2009 , 11, 093033	2.9	136
42	Resolving social dilemmas on evolving random networks. <i>Europhysics Letters</i> , 2009 , 86, 30007	1.6	205
41	Promoting cooperation in social dilemmas via simple coevolutionary rules. <i>European Physical Journal B</i> , 2009 , 67, 337-344	1.2	124
40	Selection of dynamical rules in spatial Prisoner's Dilemma games. <i>Europhysics Letters</i> , 2009 , 87, 18007	1.6	78
39	Coevolution of teaching activity promotes cooperation. <i>New Journal of Physics</i> , 2008 , 10, 043036	2.9	250
38	Restricted connections among distinguished players support cooperation. <i>Physical Review E</i> , 2008 , 78, 066101	2.4	126
37	Evolutionary prisoner's dilemma game on Newman-Watts networks. <i>Physical Review E</i> , 2008 , 77, 026109	2.4	116
36	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	2.4	41
35	Social diversity and promotion of cooperation in the spatial prisoner's dilemma game. <i>Physical Review E</i> , 2008 , 77, 011904	2.4	534
34	Self-organizing patterns maintained by competing associations in a six-species predator-prey model. <i>Physical Review E</i> , 2008 , 77, 041919	2.4	51
33	Making new connections towards cooperation in the prisoner's dilemma game. <i>Europhysics Letters</i> , 2008 , 84, 50007	1.6	192

32	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	3.3	225
31	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	1.2	141
30	Segregation process and phase transition in cyclic predator-prey models with an even number of species. <i>Physical Review E</i> , 2007 , 76, 051921	2.4	43
29	Noise-guided evolution within cyclical interactions. <i>New Journal of Physics</i> , 2007 , 9, 267-267	2.9	88
28	Cyclical interactions with alliance-specific heterogeneous invasion rates. <i>Physical Review E</i> , 2007 , 75, 052102	2.4	98
27	Cooperation enhanced by inhomogeneous activity of teaching for evolutionary Prisoner's Dilemma games. <i>Europhysics Letters</i> , 2007 , 77, 30004	1.6	329
26	Cooperation in the noisy case: Prisoner's dilemma game on two types of regular random graphs. <i>Physical Review E</i> , 2006 , 73, 067103	2.4	251
25	Three-state Potts model in combination with the rock-scissors-paper game. <i>Physical Review E</i> , 2005 , 71, 027102	2.4	20
24	Cluster mean-field study of the parity-conserving phase transition. <i>Physical Review E</i> , 2005 , 71, 066128	2.4	8
23	Phase diagrams for an evolutionary prisoner's dilemma game on two-dimensional lattices. <i>Physical Review E</i> , 2005 , 72, 047107	2.4	376
22	Rock-scissors-paper game on regular small-world networks. <i>Journal of Physics A</i> , 2004 , 37, 2599-2609		143
21	Spreading of families in cyclic predator-prey models. <i>Physical Review E</i> , 2004 , 70, 012901	2.4	13
20	Vertex dynamics during domain growth in three-state models. <i>Physical Review E</i> , 2004 , 70, 027101	2.4	13
19	Phase transitions for rock-scissors-paper game on different networks. <i>Physical Review E</i> , 2004 , 70, 037102	2.4	65
18	Dynamical mean-field approximation for a pair contact process with a particle source. <i>Physical Review E</i> , 2002 , 66, 057102	2.4	12
17	Influence of extended dynamics on phase transitions in a driven lattice gas. <i>Physical Review E</i> , 2002 , 65, 047101	2.4	9
16	Three-state cyclic voter model extended with Potts energy. <i>Physical Review E</i> , 2002 , 65, 036115	2.4	45
15	Phase transitions in the kinetic Ising model with competing dynamics. <i>Physical Review E</i> , 2000 , 62, 7466-7474	2.4	16

- 14 Stationary state in a two-temperature model with competing dynamics. *Physical Review E*, **1999**, 60, 2425-8 9
- 13 Non-equilibrium phase transition in a two-temperature lattice gas. *Journal of Physics A*, **1997**, 30, 7791-7799 5
- 12 Anisotropic ordering in a two-temperature lattice gas. *Physical Review E*, **1997**, 55, 2255-2259 2.4 12
- 11 Self-organizing domain structure in a driven lattice gas. *Physical Review E*, **1997**, 55, 5275-5279 2.4 7
- 10 Generalized mean-field study of a driven lattice gas. *Physical Review E*, **1996**, 53, 2196-2199 2.4 15
- 9 Directed-percolation conjecture for cellular automata. *Physical Review E*, **1996**, 53, 2231-2238 2.4 16
- 8 Anisotropic polydomain structure in a driven lattice gas with repulsive interaction. *Physical Review E*, **1994**, 49, 299-304 2.4 11
- 7 INTERFACE INSTABILITY IN DRIVEN LATTICE GASES. *Fractals*, **1993**, 01, 954-958 3.2 3
- 6 Coupled-chain approximation for driven lattice-gas models. *Physical Review B*, **1993**, 47, 8260-8262 3.3 2
- 5 Breaking of forward-backward symmetry in driven systems. *Physical Review E*, **1993**, 48, 611-613 2.4 11
- 4 Orientation in a driven lattice gas. *Physical Review B*, **1992**, 46, 11432-11438 3.3 5
- 3 Enhanced fluctuations in driven lattice gases. *Physica A: Statistical Mechanics and Its Applications*, **1992**, 191, 445-448 3.3 2
- 2 Correlations induced by transport in one-dimensional lattice gas. *Physical Review A*, **1991**, 44, 6375-6378 2.6 21
- 1 Transport-driven reorientation in a square lattice-gas model. *Physical Review A*, **1990**, 41, 2235-2238 2.6 9