

Christoph Hauert

List of Publications by Year in descending order

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82
papers

14,566
citations

50276

46
h-index

58581

82
g-index

89
all docs

89
docs citations

89
times ranked

4447
citing authors

#	ARTICLE	IF	CITATIONS
1	A simple rule for the evolution of cooperation on graphs and social networks. <i>Nature</i> , 2006, 441, 502-505.	27.8	1,763
2	Spatial structure often inhibits the evolution of cooperation in the snowdrift game. <i>Nature</i> , 2004, 428, 643-646.	27.8	1,254
3	Evolutionary dynamics on graphs. <i>Nature</i> , 2005, 433, 312-316.	27.8	1,044
4	Volunteering as Red Queen Mechanism for Cooperation in Public Goods Games. <i>Science</i> , 2002, 296, 1129-1132.	12.6	949
5	Models of cooperation based on the Prisoner's Dilemma and the Snowdrift game. <i>Ecology Letters</i> , 2005, 8, 748-766.	6.4	681
6	Via Freedom to Coercion: The Emergence of Costly Punishment. <i>Science</i> , 2007, 316, 1905-1907.	12.6	628
7	Reward and punishment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 10757-10762.	7.1	542
8	Phase Transitions and Volunteering in Spatial Public Goods Games. <i>Physical Review Letters</i> , 2002, 89, 118101.	7.8	542
9	Reputation-based partner choice promotes cooperation in social networks. <i>Physical Review E</i> , 2008, 78, 026117.	2.1	517
10	Social learning promotes institutions for governing the commons. <i>Nature</i> , 2010, 466, 861-863.	27.8	434
11	Game theory and physics. <i>American Journal of Physics</i> , 2005, 73, 405-414.	0.7	414
12	Coevolutionary Dynamics: From Finite to Infinite Populations. <i>Physical Review Letters</i> , 2005, 95, 238701.	7.8	411
13	Punishment and reputation in spatial public goods games. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 1099-1104.	2.6	330
14	Replicator Dynamics for Optional Public Good Games. <i>Journal of Theoretical Biology</i> , 2002, 218, 187-194.	1.7	287
15	The Evolutionary Origin of Cooperators and Defectors. <i>Science</i> , 2004, 306, 859-862.	12.6	285
16	Synergy and discounting of cooperation in social dilemmas. <i>Journal of Theoretical Biology</i> , 2006, 239, 195-202.	1.7	273
17	Exploration dynamics in evolutionary games. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 709-712.	7.1	258
18	Evolutionary games and population dynamics: maintenance of cooperation in public goods games. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 2565-2571.	2.6	236

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19	Evolutionary prisoner's dilemma games with voluntary participation. <i>Physical Review E</i> , 2002, 66, 062903.	2.1	224
20	Spatial dynamics of ecological public goods. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 7910-7914.	7.1	197
21	Punishing and abstaining for public goods. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 495-497.	7.1	168
22	Prisoner's dilemma and public goods games in different geometries: Compulsory versus voluntary interactions. <i>Complexity</i> , 2003, 8, 31-38.	1.6	145
23	Coevolutionary dynamics in large, but finite populations. <i>Physical Review E</i> , 2006, 74, 011901.	2.1	139
24	Replicator dynamics of reward & reputation in public goods games. <i>Journal of Theoretical Biology</i> , 2010, 267, 22-28.	1.7	131
25	Shame and honour drive cooperation. <i>Biology Letters</i> , 2011, 7, 899-901.	2.3	120
26	Effects of increasing the number of players and memory size in the iterated Prisoner's Dilemma: a numerical approach. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1997, 264, 513-519.	2.6	117
27	EFFECTS OF SPACE IN 2-PLAYER GAMES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2002, 12, 1531-1548.	1.7	117
28	Social evolution in structured populations. <i>Nature Communications</i> , 2014, 5, 3409.	12.8	117
29	Invasion and expansion of cooperators in lattice populations: Prisoner's dilemma vs. snowdrift games. <i>Journal of Theoretical Biology</i> , 2010, 266, 358-366.	1.7	116
30	Intra- and intergenerational discounting in the climate game. <i>Nature Climate Change</i> , 2013, 3, 1025-1028.	18.8	116
31	Leadership in Mammalian Societies: Emergence, Distribution, Power, and Payoff. <i>Trends in Ecology and Evolution</i> , 2016, 31, 54-66.	8.7	113
32	Evolutionary Game Dynamics in Populations with Heterogeneous Structures. <i>PLoS Computational Biology</i> , 2014, 10, e1003567.	3.2	96
33	Stochastic game dynamics under demographic fluctuations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 9064-9069.	7.1	96
34	Fundamental clusters in spatial 2-player games. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2001, 268, 761-769.	2.6	95
35	Spatial invasion of cooperation. <i>Journal of Theoretical Biology</i> , 2008, 250, 634-641.	1.7	92
36	Evolutionary dynamics on graphs: Efficient method for weak selection. <i>Physical Review E</i> , 2009, 79, 046707.	2.1	89

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37	Extrapolating Weak Selection in Evolutionary Games. PLoS Computational Biology, 2013, 9, e1003381.	3.2	86
38	Ecological public goods games: Cooperation and bifurcation. Theoretical Population Biology, 2008, 73, 257-263.	1.1	79
39	Spatial effects in social dilemmas. Journal of Theoretical Biology, 2006, 240, 627-636.	1.7	73
40	Consolidating Birth-Death and Death-Birth Processes in Structured Populations. PLoS ONE, 2013, 8, e54639.	2.5	66
41	Evolutionary games in deme structured, finite populations. Journal of Theoretical Biology, 2012, 299, 106-112.	1.7	64
42	Public Goods With Punishment and Abstaining in Finite and Infinite Populations. Biological Theory, 2008, 3, 114-122.	1.5	63
43	Eco-evolutionary dynamics of social dilemmas. Theoretical Population Biology, 2016, 111, 28-42.	1.1	60
44	Asymmetric evolutionary games with environmental feedback. Journal of Theoretical Biology, 2019, 462, 347-360.	1.7	59
45	Stochastic differential equations for evolutionary dynamics with demographic noise and mutations. Physical Review E, 2012, 85, 041901.	2.1	53
46	Asymmetric Evolutionary Games. PLoS Computational Biology, 2015, 11, e1004349.	3.2	52
47	Emergence of stable polymorphisms driven by evolutionary games between mutants. Nature Communications, 2012, 3, 919.	12.8	51
48	Autocratic strategies for iterated games with arbitrary action spaces. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3573-3578.	7.1	48
49	Pattern formation and chaos in spatial ecological public goodsgames. Journal of Theoretical Biology, 2011, 268, 30-38.	1.7	47
50	Social Control and the Social Contract: The Emergence of Sanctioning Systems for Collective Action. Dynamic Games and Applications, 2011, 1, 149-171.	1.9	32
51	Extending the Iterated Prisoner's Dilemma without Synchrony. Journal of Theoretical Biology, 1998, 192, 155-166.	1.7	31
52	Freedom, enforcement, and the social dilemma of strong altruism. Journal of Evolutionary Economics, 2010, 20, 203-217.	1.7	31
53	Public goods games in populations with fluctuating size. Theoretical Population Biology, 2018, 121, 72-84.	1.1	31
54	The dynamics of public goods. Discrete and Continuous Dynamical Systems - Series B, 2004, 4, 575-587.	0.9	31

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55	Public goods games with reward in finite populations. <i>Journal of Mathematical Biology</i> , 2011, 63, 109-123.	1.9	27
56	COOPERATION, COLLECTIVES FORMATION AND SPECIALIZATION. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2006, 09, 315-335.	1.4	26
57	Diversity of Cooperation in the Tragedy of the Commons. <i>Biological Theory</i> , 2010, 5, 3-6.	1.5	26
58	Autocratic strategies for alternating games. <i>Theoretical Population Biology</i> , 2017, 113, 13-22.	1.1	26
59	Origin and Structure of Dynamic Cooperative Networks. <i>Scientific Reports</i> , 2014, 4, 5725.	3.3	25
60	Fixation probabilities on superstars, revisited and revised. <i>Journal of Theoretical Biology</i> , 2015, 382, 44-56.	1.7	25
61	Structure coefficients and strategy selection in multiplayer games. <i>Journal of Mathematical Biology</i> , 2016, 72, 203-238.	1.9	24
62	Limits of Hamilton's rule. <i>Journal of Evolutionary Biology</i> , 2006, 19, 1386-1388.	1.7	17
63	Self-organized criticality in a nutshell. <i>Physical Review E</i> , 1999, 60, 2706-2709.	2.1	16
64	Structural symmetry in evolutionary games. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150420.	3.4	16
65	Altruism. <i>Current Biology</i> , 2002, 12, R270-R272.	3.9	13
66	Simple Adaptive Strategy Wins the Prisoner's Dilemma. <i>Journal of Theoretical Biology</i> , 2002, 218, 261-272.	1.7	13
67	Of Dogs and Fleas: The Dynamics of N Uncoupled Two-State Systems. <i>Journal of Statistical Physics</i> , 2004, 116, 1453-1469.	1.2	13
68	Global dynamics of microbial communities emerge from local interaction rules. <i>PLoS Computational Biology</i> , 2022, 18, e1009877.	3.2	13
69	Fixation Times in Deme Structured, Finite Populations with Rare Migration. <i>Journal of Statistical Physics</i> , 2014, 156, 739-759.	1.2	12
70	Cooperation and coauthorship in scientific publishing. <i>Physical Review E</i> , 2015, 91, 012825.	2.1	12
71	Could shame and honor save cooperation?. <i>Communicative and Integrative Biology</i> , 2012, 5, 209-213.	1.4	10
72	Evolutionary Dynamics. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2008, , 11-44.	0.3	8

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73	Effects of sampling interaction partners and competitors in evolutionary games. <i>Physical Review E</i> , 2018, 98, .	2.1	7
74	Directed migration shapes cooperation in spatial ecological public goods games. <i>PLoS Computational Biology</i> , 2019, 15, e1006948.	3.2	6
75	Spatial social dilemmas promote diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	6
76	A comment on "Towards a rigorous framework for studying 2-player continuous games" by Shade T. Shutter, <i>Journal of Theoretical Biology</i> 321, 40-43, 2013. <i>Journal of Theoretical Biology</i> , 2013, 336, 240-241.	1.7	5
77	Targeted Cooperative Actions Shape Social Networks. <i>PLoS ONE</i> , 2016, 11, e0147850.	2.5	5
78	Effort Perception is Made More Accurate with More Effort and When Cooperating with Slackers. <i>Scientific Reports</i> , 2019, 9, 17491.	3.3	3
79	Intriguing effects of selection intensity on the evolution of prosocial behaviors. <i>PLoS Computational Biology</i> , 2021, 17, e1009611.	3.2	3
80	A sheep in wolf's clothing: levels of deceit and detection in the evolution of cue-mimicry. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20191425.	2.6	2
81	On the importance of evolving phenotype distributions on evolutionary diversification. <i>PLoS Computational Biology</i> , 2021, 17, e1008733.	3.2	1
82	A Framework on Polarization, Cognitive Inflexibility, and Rigid Cognitive Specialization. <i>Frontiers in Psychology</i> , 2022, 13, 776891.	2.1	0