

Christoph Hauert

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2988461/publications.pdf>

Version: 2024-02-01

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 Framework on Polarization, Cognitive Inflexibility, and Rigid Cognitive Specialization. <i>Frontiers in Psychology</i> , 2022, 13, 776891.	2.1	0
2	Global dynamics of microbial communities emerge from local interaction rules. <i>PLoS Computational Biology</i> , 2022, 18, e1009877.	3.2	13
3	On the importance of evolving phenotype distributions on evolutionary diversification. <i>PLoS Computational Biology</i> , 2021, 17, e1008733.	3.2	1
4	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
5	Intriguing effects of selection intensity on the evolution of prosocial behaviors. <i>PLoS Computational Biology</i> , 2021, 17, e1009611.	3.2	3
6	Directed migration shapes cooperation in spatial ecological public goods games. <i>PLoS Computational Biology</i> , 2019, 15, e1006948.	3.2	6
7	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
8	Effort Perception is Made More Accurate with More Effort and When Cooperating with Slackers. <i>Scientific Reports</i> , 2019, 9, 17491.	3.3	3
9	Asymmetric evolutionary games with environmental feedback. <i>Journal of Theoretical Biology</i> , 2019, 462, 347-360.	1.7	59
10	Public goods games in populations with fluctuating size. <i>Theoretical Population Biology</i> , 2018, 121, 72-84.	1.1	31
11	Effects of sampling interaction partners and competitors in evolutionary games. <i>Physical Review E</i> , 2018, 98, .	2.1	7
12	Autocratic strategies for alternating games. <i>Theoretical Population Biology</i> , 2017, 113, 13-22.	1.1	26
13	Eco-evolutionary dynamics of social dilemmas. <i>Theoretical Population Biology</i> , 2016, 111, 28-42.	1.1	60
14	Autocratic strategies for iterated games with arbitrary action spaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3573-3578.	7.1	48
15	Leadership in Mammalian Societies: Emergence, Distribution, Power, and Payoff. <i>Trends in Ecology and Evolution</i> , 2016, 31, 54-66.	8.7	113
16	Structure coefficients and strategy selection in multiplayer games. <i>Journal of Mathematical Biology</i> , 2016, 72, 203-238.	1.9	24
17	Targeted Cooperative Actions Shape Social Networks. <i>PLoS ONE</i> , 2016, 11, e0147850.	2.5	5
18	Cooperation and coauthorship in scientific publishing. <i>Physical Review E</i> , 2015, 91, 012825.	2.1	12

#	ARTICLE	IF	CITATIONS
19	Stochastic game dynamics under demographic fluctuations. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9064-9069.	7.1	96
20	Fixation probabilities on superstars, revisited and revised. Journal of Theoretical Biology, 2015, 382, 44-56.	1.7	25
21	Structural symmetry in evolutionary games. Journal of the Royal Society Interface, 2015, 12, 20150420.	3.4	16
22	Asymmetric Evolutionary Games. PLoS Computational Biology, 2015, 11, e1004349.	3.2	52
23	Evolutionary Game Dynamics in Populations with Heterogenous Structures. PLoS Computational Biology, 2014, 10, e1003567.	3.2	96
24	Social evolution in structured populations. Nature Communications, 2014, 5, 3409.	12.8	117
25	Fixation Times in Deme Structured, Finite Populations with Rare Migration. Journal of Statistical Physics, 2014, 156, 739-759.	1.2	12
26	Origin and Structure of Dynamic Cooperative Networks. Scientific Reports, 2014, 4, 5725.	3.3	25
27	Intra- and intergenerational discounting in the climate game. Nature Climate Change, 2013, 3, 1025-1028.	18.8	116
28	A comment on "Towards a rigorous framework for studying 2-player continuous games" by Shade T. Shatters, Journal of Theoretical Biology 321, 40-43, 2013. Journal of Theoretical Biology, 2013, 336, 240-241.	1.7	5
29	Extrapolating Weak Selection in Evolutionary Games. PLoS Computational Biology, 2013, 9, e1003381.	3.2	86
30	Consolidating Birth-Death and Death-Birth Processes in Structured Populations. PLoS ONE, 2013, 8, e54639.	2.5	66
31	Emergence of stable polymorphisms driven by evolutionary games between mutants. Nature Communications, 2012, 3, 919.	12.8	51
32	Could shame and honor save cooperation?. Communicative and Integrative Biology, 2012, 5, 209-213.	1.4	10
33	Stochastic differential equations for evolutionary dynamics with demographic noise and mutations. Physical Review E, 2012, 85, 041901.	2.1	53
34	Evolutionary games in deme structured, finite populations. Journal of Theoretical Biology, 2012, 299, 106-112.	1.7	64
35	Public goods games with reward in finite populations. Journal of Mathematical Biology, 2011, 63, 109-123.	1.9	27
36	Pattern formation and chaos in spatial ecological public goodsgames. Journal of Theoretical Biology, 2011, 268, 30-38.	1.7	47

#	ARTICLE	IF	CITATIONS
37	Social Control and the Social Contract: The Emergence of Sanctioning Systems for Collective Action. <i>Dynamic Games and Applications</i> , 2011, 1, 149-171.	1.9	32
38	Shame and honour drive cooperation. <i>Biology Letters</i> , 2011, 7, 899-901.	2.3	120
39	Freedom, enforcement, and the social dilemma of strong altruism. <i>Journal of Evolutionary Economics</i> , 2010, 20, 203-217.	1.7	31
40	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
41	Replicator dynamics of reward & reputation in public goods games. <i>Journal of Theoretical Biology</i> , 2010, 267, 22-28.	1.7	131
42	Social learning promotes institutions for governing the commons. <i>Nature</i> , 2010, 466, 861-863.	27.8	434
43	Diversity of Cooperation in the Tragedy of the Commons. <i>Biological Theory</i> , 2010, 5, 3-6.	1.5	26
44	Evolutionary dynamics on graphs: Efficient method for weak selection. <i>Physical Review E</i> , 2009, 79, 046707.	2.1	89
45	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
46	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
47	Spatial invasion of cooperation. <i>Journal of Theoretical Biology</i> , 2008, 250, 634-641.	1.7	92
48	Ecological public goods games: Cooperation and bifurcation. <i>Theoretical Population Biology</i> , 2008, 73, 257-263.	1.1	79
49	Reputation-based partner choice promotes cooperation in social networks. <i>Physical Review E</i> , 2008, 78, 026117.	2.1	517
50	Public Goods With Punishment and Abstaining in Finite and Infinite Populations. <i>Biological Theory</i> , 2008, 3, 114-122.	1.5	63
51	Evolutionary Dynamics. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2008, , 11-44.	0.3	8
52	Via Freedom to Coercion: The Emergence of Costly Punishment. <i>Science</i> , 2007, 316, 1905-1907.	12.6	628
53	Limits of Hamilton's rule. <i>Journal of Evolutionary Biology</i> , 2006, 19, 1386-1388.	1.7	17
54	A simple rule for the evolution of cooperation on graphs and social networks. <i>Nature</i> , 2006, 441, 502-505.	27.8	1,763

#	ARTICLE	IF	CITATIONS
55	Synergy and discounting of cooperation in social dilemmas. <i>Journal of Theoretical Biology</i> , 2006, 239, 195-202.	1.7	273
56	Spatial effects in social dilemmas. <i>Journal of Theoretical Biology</i> , 2006, 240, 627-636.	1.7	73
57	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
58	Coevolutionary dynamics in large, but finite populations. <i>Physical Review E</i> , 2006, 74, 011901.	2.1	139
59	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
60	COOPERATION, COLLECTIVES FORMATION AND SPECIALIZATION. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2006, 09, 315-335.	1.4	26
61	Models of cooperation based on the Prisoner's Dilemma and the Snowdrift game. <i>Ecology Letters</i> , 2005, 8, 748-766.	6.4	681
62	Evolutionary dynamics on graphs. <i>Nature</i> , 2005, 433, 312-316.	27.8	1,044
63	Coevolutionary Dynamics: From Finite to Infinite Populations. <i>Physical Review Letters</i> , 2005, 95, 238701.	7.8	411
64	Game theory and physics. <i>American Journal of Physics</i> , 2005, 73, 405-414.	0.7	414
65	Spatial structure often inhibits the evolution of cooperation in the snowdrift game. <i>Nature</i> , 2004, 428, 643-646.	27.8	1,254
66	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
67	The Evolutionary Origin of Cooperators and Defectors. <i>Science</i> , 2004, 306, 859-862.	12.6	285
68	The dynamics of public goods. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2004, 4, 575-587.	0.9	31
69	Prisoner's dilemma and public goods games in different geometries: Compulsory versus voluntary interactions. <i>Complexity</i> , 2003, 8, 31-38.	1.6	145
70	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
71	Evolutionary prisoner's dilemma games with voluntary participation. <i>Physical Review E</i> , 2002, 66, 062903.	2.1	224
72	Volunteering as Red Queen Mechanism for Cooperation in Public Goods Games. <i>Science</i> , 2002, 296, 1129-1132.	12.6	949

#	ARTICLE	IF	CITATIONS
73	EFFECTS OF SPACE IN 2 \times 2 GAMES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 1531-1548.	1.7	117
74	Phase Transitions and Volunteering in Spatial Public Goods Games. Physical Review Letters, 2002, 89, 118101.	7.8	542
75	Altruism. Current Biology, 2002, 12, R270-R272.	3.9	13
76	Replicator Dynamics for Optional Public Good Games. Journal of Theoretical Biology, 2002, 218, 187-194.	1.7	287
77	Simple Adaptive Strategy Wins the Prisoner's Dilemma. Journal of Theoretical Biology, 2002, 218, 261-272.	1.7	13
78	Fundamental clusters in spatial 2 \times 2 games. Proceedings of the Royal Society B: Biological Sciences, 2001, 268, 761-769.	2.6	95
79	Reward and punishment. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 10757-10762.	7.1	542
80	Self-organized criticality in a nutshell. Physical Review E, 1999, 60, 2706-2709.	2.1	16
81	Extending the Iterated Prisoner's Dilemma without Synchrony. Journal of Theoretical Biology, 1998, 192, 155-166.	1.7	31
82	Effects of increasing the number of players and memory size in the iterated Prisoner's Dilemma: a numerical approach. Proceedings of the Royal Society B: Biological Sciences, 1997, 264, 513-519.	2.6	117