

# Feng Fu

## List of Publications by Year in descending order

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89  
papers

4,671  
citations

94269

37  
h-index

98622

67  
g-index

92  
all docs

92  
docs citations

92  
times ranked

2643  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reputation-based partner choice promotes cooperation in social networks. <i>Physical Review E</i> , 2008, 78, 026117.	0.8	517
2	Imitation dynamics of vaccination behaviour on social networks. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 42-49.	1.2	326
3	Predicting the outcomes of treatment to eradicate the latent reservoir for HIV-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13475-13480.	3.3	249
4	Strategy selection in structured populations. <i>Journal of Theoretical Biology</i> , 2009, 259, 570-581.	0.8	217
5	Partner switching stabilizes cooperation in coevolutionary prisoner's dilemma. <i>Physical Review E</i> , 2009, 79, 036101.	0.8	187
6	Evolution of in-group favoritism. <i>Scientific Reports</i> , 2012, 2, 460.	1.6	160
7	Evolution of Cooperation on Stochastic Dynamical Networks. <i>PLoS ONE</i> , 2010, 5, e11187.	1.1	155
8	Empirical analysis of online social networks in the age of Web 2.0. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 675-684.	1.2	127
9	Social dilemmas in an online social network: The structure and evolution of cooperation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 371, 58-64.	0.9	124
10	Invasion and expansion of cooperators in lattice populations: Prisoner's dilemma vs. snowdrift games. <i>Journal of Theoretical Biology</i> , 2010, 266, 358-366.	0.8	116
11	The Evolution of Homophily. <i>Scientific Reports</i> , 2012, 2, 845.	1.6	111
12	Interaction stochasticity supports cooperation in spatial Prisoner's dilemma. <i>Physical Review E</i> , 2008, 78, 051120.	0.8	108
13	Spatial Heterogeneity in Drug Concentrations Can Facilitate the Emergence of Resistance to Cancer Therapy. <i>PLoS Computational Biology</i> , 2015, 11, e1004142.	1.5	100
14	Emergence of social cooperation in threshold public goods games with collective risk. <i>Physical Review E</i> , 2009, 80, 016101.	0.8	99
15	Evolutionary Game Dynamics in Populations with Heterogeneous Structures. <i>PLoS Computational Biology</i> , 2014, 10, e1003567.	1.5	96
16	Evolutionary dynamics on graphs: Efficient method for weak selection. <i>Physical Review E</i> , 2009, 79, 046707.	0.8	89
17	Imperfect Vaccine Aggravates the Long-Standing Dilemma of Voluntary Vaccination. <i>PLoS ONE</i> , 2011, 6, e20577.	1.1	78
18	Coevolutionary dynamics of opinions and networks: From diversity to uniformity. <i>Physical Review E</i> , 2008, 78, 016104.	0.8	73

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19	Effects of heterogeneous wealth distribution on public cooperation with collective risk. <i>Physical Review E</i> , 2010, 82, 016102.	0.8	73
20	Quality versus quantity of social ties in experimental cooperative networks. <i>Nature Communications</i> , 2013, 4, 2814.	5.8	68
21	Sentiment-Based Prediction of Alternative Cryptocurrency Price Fluctuations Using Gradient Boosting Tree Model. <i>Frontiers in Physics</i> , 2019, 7, .	1.0	68
22	Prisoner's Dilemma on community networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 378, 512-518.	1.2	66
23	Social tolerance allows cooperation to prevail in an adaptive environment. <i>Physical Review E</i> , 2009, 80, 051104.	0.8	64
24	Promotion of cooperation induced by the interplay between structure and game dynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 383, 651-659.	1.2	61
25	Imperfect vaccine and hysteresis. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20182406.	1.2	61
26	Partner selections in public goods games with constant group size. <i>Physical Review E</i> , 2009, 80, 026121.	0.8	60
27	Expectation-driven migration promotes cooperation by group interactions. <i>Physical Review E</i> , 2012, 85, 066104.	0.8	59
28	Rational behavior is a "double-edged sword" when considering voluntary vaccination. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 4807-4815.	1.2	56
29	Global Migration Can Lead to Stronger Spatial Selection than Local Migration. <i>Journal of Statistical Physics</i> , 2013, 151, 637-653.	0.5	51
30	Social influence promotes cooperation in the public goods game. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 413, 86-93.	1.2	48
31	Promoting cooperation by local contribution under stochastic win-stay-lose-shift mechanism. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 5609-5615.	1.2	47
32	Adaptive role switching promotes fairness in networked ultimatum game. <i>Scientific Reports</i> , 2013, 3, 1550.	1.6	46
33	Individual's expulsion to nasty environment promotes cooperation in public goods games. <i>Europhysics Letters</i> , 2009, 88, 30011.	0.7	45
34	Influence of different initial distributions on robust cooperation in scale-free networks: A comparative study. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 1161-1167.	0.9	41
35	Dueling biological and social contagions. <i>Scientific Reports</i> , 2017, 7, 43634.	1.6	41
36	Moving Away from Nasty Encounters Enhances Cooperation in Ecological Prisoner's Dilemma Game. <i>PLoS ONE</i> , 2011, 6, e27669.	1.1	39

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37	Social Learning of Prescribing Behavior Can Promote Population Optimum of Antibiotic Use. <i>Frontiers in Physics</i> , 2018, 6, .	1.0	39
38	A tale of two contribution mechanisms for nonlinear public goods. <i>Scientific Reports</i> , 2013, 3, 2021.	1.6	38
39	Coevolutionary dynamics of aspiration and strategy in spatial repeated public goods games. <i>New Journal of Physics</i> , 2018, 20, 063007.	1.2	38
40	Evolutionary dynamics of group cooperation with asymmetrical environmental feedback. <i>Europhysics Letters</i> , 2019, 126, 40005.	0.7	38
41	Oscillatory dynamics in the dilemma of social distancing. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20200686.	1.0	38
42	Cooperation in group-structured populations with two layers of interactions. <i>Scientific Reports</i> , 2015, 5, 17446.	1.6	36
43	Evolutionary models of in-group favoritism. <i>F1000prime Reports</i> , 2015, 7, 27.	5.9	32
44	Opinion formation on dynamic networks: identifying conditions for the emergence of partisan echo chambers. <i>Royal Society Open Science</i> , 2018, 5, 181122.	1.1	31
45	Public Discourse and Social Network Echo Chambers Driven by Socio-Cognitive Biases. <i>Physical Review X</i> , 2020, 10, .	2.8	29
46	Eco-evolutionary dynamics with environmental feedback: Cooperation in a changing world. <i>Europhysics Letters</i> , 2020, 132, 10001.	0.7	29
47	Steering eco-evolutionary game dynamics with manifold control. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20190643.	1.0	26
48	EFFECTS OF LEARNING ACTIVITY ON COOPERATION IN EVOLUTIONARY PRISONER'S DILEMMA GAME. <i>International Journal of Modern Physics C</i> , 2008, 19, 1377-1387.	0.8	25
49	Inertia in strategy switching transforms the strategy evolution. <i>Physical Review E</i> , 2011, 84, 066103.	0.8	25
50	Risk-aware multi-armed bandit problem with application to portfolio selection. <i>Royal Society Open Science</i> , 2017, 4, 171377.	1.1	25
51	Leveraging statistical physics to improve understanding of cooperation in multiplex networks. <i>New Journal of Physics</i> , 2017, 19, 071002.	1.2	23
52	Partner Selection Shapes the Strategic and Topological Evolution of Cooperation. <i>Dynamic Games and Applications</i> , 2011, 1, 354-369.	1.1	22
53	Evolution of Cooperation in Public Goods Games with Stochastic Opting-Out. <i>Games</i> , 2019, 10, 1.	0.4	21
54	Adaptive tag switching reinforces the coevolution of contingent cooperation and tag diversity. <i>Journal of Theoretical Biology</i> , 2013, 330, 45-55.	0.8	19

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55	Coevolutionary dynamics of phenotypic diversity and contingent cooperation. <i>PLoS Computational Biology</i> , 2017, 13, e1005363.	1.5	19
56	Co-diffusion of social contagions. <i>New Journal of Physics</i> , 2018, 20, 095001.	1.2	19
57	Strategy intervention for the evolution of fairness. <i>PLoS ONE</i> , 2018, 13, e0196524.	1.1	18
58	Mathematically modeling spillovers of an emerging infectious zoonosis with an intermediate host. <i>PLoS ONE</i> , 2020, 15, e0237780.	1.1	18
59	The riskâ€return tradeâ€off between solitary and eusocial reproduction. <i>Ecology Letters</i> , 2015, 18, 74-84.	3.0	15
60	Consensus of population systems with community structures. <i>Physical Review E</i> , 2008, 78, 051923.	0.8	14
61	Understanding gambling behaviour and risk attitudes using cryptocurrency-based casino blockchain data. <i>Royal Society Open Science</i> , 2020, 7, 201446.	1.1	13
62	Flocking of Multi-Agent Systems with a Virtual Leader. , 2007, , .		12
63	The Increased Risk of Joint Venture Promotes Social Cooperation. <i>PLoS ONE</i> , 2013, 8, e63801.	1.1	12
64	Coevolution of Cooperation and Partner Rewiring Range in Spatial Social Networks. <i>Scientific Reports</i> , 2016, 6, 36293.	1.6	10
65	Cancer-induced immunosuppression can enable effectiveness of immunotherapy through bistability generation: A mathematical and computational examination. <i>Journal of Theoretical Biology</i> , 2020, 492, 110185.	0.8	10
66	Highly coordinated nationwide massive travel restrictions are central to effective mitigation and control of COVID-19 outbreaks in China. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2022, 478, 20220040.	1.0	10
67	Quantifying the impact of noise on macroscopic organization of cooperation in spatial games. <i>Chaos, Solitons and Fractals</i> , 2013, 56, 35-44.	2.5	8
68	Elitism in mathematics and inequality. <i>Humanities and Social Sciences Communications</i> , 2021, 8, .	1.3	6
69	Could feedback-based self-learning help solve networked Prisoner's Dilemma?. , 2009, , .		5
70	Spillover modes in multiplex games: double-edged effects on cooperation and their coevolution. <i>Scientific Reports</i> , 2018, 8, 6922.	1.6	5
71	Evolutionary Dynamics of Gig Economy Labor Strategies under Technology, Policy and Market Influence. <i>Games</i> , 2021, 12, 49.	0.4	4
72	Co-contagion diffusion on multilayer networks. <i>Applied Network Science</i> , 2019, 4, .	0.8	3

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73	Phenotype affinity mediated interactions can facilitate the evolution of cooperation. Journal of Theoretical Biology, 2019, 462, 361-369.	0.8	3
74	Random choices facilitate solutions to collective network coloring problems by artificial agents. IScience, 2021, 24, 102340.	1.9	2
75	Polarization, abstention, and the median voter theorem. Humanities and Social Sciences Communications, 2022, 9, .	1.3	2
76	Asymmetric Partisan Voter Turnout Games. Dynamic Games and Applications, 2021, 11, 738-758.	1.1	1
77	Immune checkpoint therapy modeling of PD-1/PD-L1 blockades reveals subtle difference in their response dynamics and potential synergy in combination. Immunoinformatics, 2021, 1-2, 100004.	1.2	1
78	Information propagation in hierarchical networks. , 2007, , .		0
79	The dual problems of coordination and anti-coordination on random bipartite graphs. New Journal of Physics, 2021, 23, 113018.	1.2	0
80	Mathematically modeling spillovers of an emerging infectious zoonosis with an intermediate host. , 2020, 15, e0237780.		0
81	Mathematically modeling spillovers of an emerging infectious zoonosis with an intermediate host. , 2020, 15, e0237780.		0
82	Mathematically modeling spillovers of an emerging infectious zoonosis with an intermediate host. , 2020, 15, e0237780.		0
83	Mathematically modeling spillovers of an emerging infectious zoonosis with an intermediate host. , 2020, 15, e0237780.		0
84	Mathematically modeling spillovers of an emerging infectious zoonosis with an intermediate host. , 2020, 15, e0237780.		0
85	Mathematically modeling spillovers of an emerging infectious zoonosis with an intermediate host. , 2020, 15, e0237780.		0
86	Mathematically modeling spillovers of an emerging infectious zoonosis with an intermediate host. , 2020, 15, e0237780.		0
87	Mathematically modeling spillovers of an emerging infectious zoonosis with an intermediate host. , 2020, 15, e0237780.		0
88	Mathematically modeling spillovers of an emerging infectious zoonosis with an intermediate host. , 2020, 15, e0237780.		0
89	Mathematically modeling spillovers of an emerging infectious zoonosis with an intermediate host. , 2020, 15, e0237780.		0