

Karl Sigmund

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.

96
papers

16,963
citations

45
h-index

116
g-index

116
ext. papers

19,510
ext. citations

8.9
avg, IF

6.96
L-index

#	Paper	IF	Citations
96	Toward ecoevolutionary dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	2
95	Social evolution leads to persistent corruption. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 13276-13281	11.5	14
94	Games of corruption: how to suppress illegal logging. <i>Journal of Theoretical Biology</i> , 2015 , 367, 1-13	2.3	36
93	Partners or rivals? Strategies for the iterated prisoner's dilemma. <i>Games and Economic Behavior</i> , 2015 , 92, 41-52	1.1	58
92	The evolution of sanctioning institutions: an experimental approach to the social contract. <i>Experimental Economics</i> , 2013 , 17, 285	2.1	8
91	Evolution of extortion in Iterated Prisoner's Dilemma games. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 6913-8	11.5	169
90	Moral assessment in indirect reciprocity. <i>Journal of Theoretical Biology</i> , 2012 , 299, 25-30	2.3	74
89	The take-it-or-leave-it option allows small penalties to overcome social dilemmas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 1165-9	11.5	88
88	Social Control and the Social Contract: The Emergence of Sanctioning Systems for Collective Action. <i>Dynamic Games and Applications</i> , 2011 , 1, 149-171	1.1	26
87	Darwin and the Evolution of Human Cooperation. <i>The Frontiers Collection</i> , 2011 , 331-347	0.3	2
86	Social learning promotes institutions for governing the commons. <i>Nature</i> , 2010 , 466, 861-3	50.4	336
85	Incentives and opportunism: from the carrot to the stick. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010 , 277, 2427-33	4.4	164
84	Freedom, enforcement, and the social dilemma of strong altruism. <i>Journal of Evolutionary Economics</i> , 2010 , 20, 203-217	1.9	29
83	The competition of assessment rules for indirect reciprocity. <i>Journal of Theoretical Biology</i> , 2010 , 263, 13-9	2.3	56
82	The Calculus of Selfishness 2010 ,		368
81	Exploration dynamics in evolutionary games. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 709-12	11.5	226
80	Sympathy and similarity: the evolutionary dynamics of cooperation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 8405-6	11.5	30

79	Public Good Games with Incentives: The Role of Reputation. <i>Springer Series in Game Theory</i> , 2009 , 85-103		3
78	Public goods with punishment and abstaining in finite and infinite populations. <i>Biological Theory</i> , 2008 , 3, 114-122	1.7	54
77	A short tale of two cities: Otto schreier and the HamburgVienna connection. <i>Mathematical Intelligencer</i> , 2008 , 30, 27-35	0.2	0
76	Via freedom to coercion: the emergence of costly punishment. <i>Science</i> , 2007 , 316, 1905-7	33.3	517
75	Punish or perish? Retaliation and collaboration among humans. <i>Trends in Ecology and Evolution</i> , 2007 , 22, 593-600	10.9	270
74	A Survey of Indirect Reciprocity 2007 , 21-49		8
73	Evolution theory system theory game theory Biocentric Modeling 2007 , 368-417		
72	Gfellel Vienna. <i>Mathematical Intelligencer</i> , 2006 , 28, 44-55	0.2	1
71	Punishing and abstaining for public goods. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 495-7	11.5	144
70	The good, the bad and the discriminator--errors in direct and indirect reciprocity. <i>Journal of Theoretical Biology</i> , 2006 , 239, 183-94	2.3	89
69	Evolution of indirect reciprocity. <i>Nature</i> , 2005 , 437, 1291-8	50.4	1669
68	Indirect reciprocity, image scoring, and moral hazard. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 2666-70	11.5	114
67	Three's company when seeking unanimity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 17885-6	11.5	
66	Kepler's conjecture: How some of the greatest minds in history helped solve one of the oldest math problems in the world. <i>Mathematical Intelligencer</i> , 2004 , 26, 66-67	0.2	2
65	The logic of reprobation: assessment and action rules for indirect reciprocation. <i>Journal of Theoretical Biology</i> , 2004 , 231, 475-86	2.3	154
64	Evolutionary dynamics of biological games. <i>Science</i> , 2004 , 303, 793-9	33.3	725
63	The dynamics of public goods. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2004 , 4, 575-587	1.3	26
62	Evolutionary game dynamics. <i>Bulletin of the American Mathematical Society</i> , 2003 , 40, 479-520	1.3	712

61	Punishment and reputation in spatial public goods games. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003 , 270, 1099-104	4.4	259
60	Primer: altruism. <i>Current Biology</i> , 2002 , 12, R270-2	6.3	10
59	Replicator dynamics for optional public good games. <i>Journal of Theoretical Biology</i> , 2002 , 218, 187-94	2.3	232
58	Volunteering as Red Queen mechanism for cooperation in public goods games. <i>Science</i> , 2002 , 296, 1129-33	3.3	745
57	Automata for Repeated Games 2001 , 335-347		
56	Exact thought in a demented time: Karl menger and his viennese mathematical colloquium. <i>Mathematical Intelligencer</i> , 2000 , 22, 34-45	0.2	5
55	Cooperation versus Competition. <i>Financial Analysts Journal</i> , 2000 , 56, 13-22	1.5	18
54	The spatial ultimatum game. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2000 , 267, 2177-82	4.4	112
53	Fairness versus reason in the ultimatum game. <i>Science</i> , 2000 , 289, 1773-5	33.3	629
52	Evolutionary game theory. <i>Current Biology</i> , 1999 , 9, R503-5	6.3	76
51	Evolution of indirect reciprocity by image scoring. <i>Nature</i> , 1998 , 393, 573-7	50.4	1701
50	The dynamics of indirect reciprocity. <i>Journal of Theoretical Biology</i> , 1998 , 194, 561-74	2.3	374
49	Complex Adaptive Systems and the Evolution of Reciprocation. <i>Ecosystems</i> , 1998 , 1, 444-448	3.9	6
48	Evolutionary Games and Population Dynamics 1998 ,		2150
47	Automata and Inner States for Repeated Games 1998 , 131-139		
46	Equal Pay for All Prisoners. <i>American Mathematical Monthly</i> , 1997 , 104, 303	0.3	15
45	Equal Pay for All Prisoners. <i>American Mathematical Monthly</i> , 1997 , 104, 303-305	0.3	20
44	The logic of contrition. <i>Journal of Theoretical Biology</i> , 1997 , 185, 281-93	2.3	60

43	Games Evolution Plays 1996 , 65-76		
42	What is life? The next fifty years. <i>Complexity</i> , 1996 , 2, 43-44	1.6	3
41	Automata, repeated games and noise. <i>Journal of Mathematical Biology</i> , 1995 , 33, 703	2	55
40	The arithmetics of mutual help. <i>Scientific American</i> , 1995 , 272, 76-81	0.5	166
39	A philosopher's mathematician: hans hahn and the vienna circle. <i>Mathematical Intelligencer</i> , 1995 , 17, 16-29	0.2	12
38	Invasion Dynamics of the Finitely Repeated Prisoner's Dilemma. <i>Games and Economic Behavior</i> , 1995 , 11, 364-390	1.1	16
37	Immune responses against multiple epitopes. <i>Journal of Theoretical Biology</i> , 1995 , 175, 325-53	2.3	54
36	The Alternating Prisoner's Dilemma. <i>Journal of Theoretical Biology</i> , 1994 , 168, 219-226	2.3	112
35	Cooperation in Heterogeneous Populations. <i>Recent Research in Psychology</i> , 1994 , 223-235		1
34	A strategy of win-stay, lose-shift that outperforms tit-for-tat in the Prisoner's Dilemma game. <i>Nature</i> , 1993 , 364, 56-8	50.4	1221
33	Tit for tat in heterogeneous populations. <i>Nature</i> , 1992 , 355, 250-253	50.4	729
32	Time averages for unpredictable orbits of deterministic systems. <i>Annals of Operations Research</i> , 1992 , 37, 217-228	3.2	19
31	On the dynamics of asymmetric games. <i>Theoretical Population Biology</i> , 1991 , 39, 345-357	1.2	30
30	The evolution of stochastic strategies in the Prisoner's Dilemma. <i>Acta Applicandae Mathematicae</i> , 1990 , 20, 247-265	1.1	194
29	Game-dynamical aspects of the prisoner's dilemma. <i>Applied Mathematics and Computation</i> , 1989 , 30, 191-213	2.7	50
28	Oscillations in the evolution of reciprocity. <i>Journal of Theoretical Biology</i> , 1989 , 137, 21-6	2.3	111
27	Permanence and viability. <i>Journal of Computational and Applied Mathematics</i> , 1988 , 22, 203-209	2.4	4
26	A maximum principle for frequency dependent selection. <i>Mathematical Biosciences</i> , 1987 , 84, 189-195	3.9	12

25	Game dynamics, mixed strategies, and gradient systems. <i>Theoretical Population Biology</i> , 1987 , 32, 114-126	20
24	Gradients for the evolution of bimatrix games. <i>Journal of Mathematical Biology</i> , 1987 , 25, 623-35	5
23	A Survey of Replicator Equations. <i>Biomathematics</i> , 1986 , 88-104	8
22	Dynamics of Evolutionary Optimization. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1985 , 89, 668-682	41
21	The role of Mendelian genetics in strategic models on animal behaviour. <i>Journal of Theoretical Biology</i> , 1983 , 101, 19-38	26
20	Replicator dynamics. <i>Journal of Theoretical Biology</i> , 1983 , 100, 533-538	426
19	A note on the evolution of sexual dimorphism. <i>Journal of Theoretical Biology</i> , 1982 , 94, 107-10	15
18	Game dynamics in mendelian populations. <i>Biological Cybernetics</i> , 1982 , 43, 51-57	28
17	Coyness, philandering and stable strategies. <i>Animal Behaviour</i> , 1981 , 29, 186-192	93
16	Selfregulation of behaviour in animal societies. <i>Biological Cybernetics</i> , 1981 , 40, 1-8	49
15	Selfregulation of behaviour in animal societies. <i>Biological Cybernetics</i> , 1981 , 40, 9-15	31
14	Selfregulation of behaviour in animal societies. <i>Biological Cybernetics</i> , 1981 , 40, 17-25	32
13	Mass action kinetics of selfreplication in flow reactors. <i>Journal of Mathematical Analysis and Applications</i> , 1980 , 78, 88-112	34
12	On minimal centers of attraction and generic points.. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 1977 , 1977, 72-79	2
11	On the connectedness of ergodic systems. <i>Manuscripta Mathematica</i> , 1977 , 22, 27-32	8
10	Ergodic Theory on Compact Spaces. <i>Lecture Notes in Mathematics</i> , 1976 ,	368
9	Topological dynamics of transformations induced on the space of probability measures. <i>Monatshefte Fur Mathematik</i> , 1975 , 79, 81-92	73
8	Propriétés globales et exceptionnelles des États statistiques de systèmes dynamiques stables. <i>Lecture Notes in Mathematics</i> , 1975 , 294-304	0.4

7	On dynamical systems with the specification property. <i>Transactions of the American Mathematical Society</i> , 1974 , 190, 285-285	1	97
6	Normal and quasiregular points for automorphisms of the torus. <i>Mathematical Systems Theory</i> , 1974 , 8, 251-255		4
5	On the time evolution of statistical states for Anosov systems. <i>Mathematische Zeitschrift</i> , 1974 , 138, 183-189	0.7	3
4	On the Space of Invariant Measures for Hyperbolic Flows. <i>American Journal of Mathematics</i> , 1972 , 94, 31	1.2	26
3	On mixing measures for axiom A diffeomorphisms. <i>Proceedings of the American Mathematical Society</i> , 1972 , 36, 497-497	0.8	12
2	On the prevalence of zero entropy. <i>Israel Journal of Mathematics</i> , 1971 , 10, 281-288	0.8	3
1	Generic properties of invariant measures for AxiomA-diffeomorphisms. <i>Inventiones Mathematicae</i> , 1970 , 11, 99-109	2.2	92