Martin A Nowak

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228 82 44,053 209 h-index g-index citations papers 15 51,233 244 7.99 avg, IF L-index ext. papers ext. citations

#	Paper	IF	Citations
228	Five rules for the evolution of cooperation. <i>Science</i> , 2006 , 314, 1560-3	33.3	3388
227	Viral dynamics in human immunodeficiency virus type 1 infection. <i>Nature</i> , 1995 , 373, 117-22	50.4	2863
226	Evolutionary games and spatial chaos. <i>Nature</i> , 1992 , 359, 826-829	50.4	2767
225	Distant metastasis occurs late during the genetic evolution of pancreatic cancer. <i>Nature</i> , 2010 , 467, 111	1 <i>4</i> 5-7.4	1834
224	Evolution of indirect reciprocity by image scoring. <i>Nature</i> , 1998 , 393, 573-7	50.4	1701
223	Evolution of indirect reciprocity. <i>Nature</i> , 2005 , 437, 1291-8	50.4	1669
222	A simple rule for the evolution of cooperation on graphs and social networks. <i>Nature</i> , 2006 , 441, 502-5	50.4	1397
221	Evolutionary Dynamics 2006 ,		1369
220	The molecular evolution of acquired resistance to targeted EGFR blockade in colorectal cancers. <i>Nature</i> , 2012 , 486, 537-40	50.4	1272
219	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
218	Late escape from an immunodominant cytotoxic T-lymphocyte response associated with progression to AIDS. <i>Nature Medicine</i> , 1997 , 3, 212-7	50.5	1016
217	Emergence of cooperation and evolutionary stability in finite populations. <i>Nature</i> , 2004 , 428, 646-50	50.4	900
216	Evolutionary dynamics on graphs. <i>Nature</i> , 2005 , 433, 312-6	50.4	810
215	The evolution of eusociality. <i>Nature</i> , 2010 , 466, 1057-62	50.4	809
214	Human cooperation. <i>Trends in Cognitive Sciences</i> , 2013 , 17, 413-25	14	755
213	Tit for tat in heterogeneous populations. <i>Nature</i> , 1992 , 355, 250-253	50.4	729
212	Evolutionary dynamics of biological games. <i>Science</i> , 2004 , 303, 793-9	33.3	725

211	Mutations driving CLL and their evolution in progression and relapse. <i>Nature</i> , 2015 , 526, 525-30	50.4	658
210	Comparative lesion sequencing provides insights into tumor evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 4283-8	11.5	616
209	Evolution of cooperation by multilevel selection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 10952-5	11.5	592
208	Accumulation of driver and passenger mutations during tumor progression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 18545-50	11.5	574
207	Evolution of genetic redundancy. <i>Nature</i> , 1997 , 388, 167-71	50.4	537
206	Winners don T punish. <i>Nature</i> , 2008 , 452, 348-51	50.4	531
205	Via freedom to coercion: the emergence of costly punishment. <i>Science</i> , 2007 , 316, 1905-7	33.3	517
204	THE SPATIAL DILEMMAS OF EVOLUTION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1993 , 03, 35-78	2	460
203	HIV-1 Vpr increases viral expression by manipulation of the cell cycle: a mechanism for selection of Vpr in vivo. <i>Nature Medicine</i> , 1998 , 4, 65-71	50.5	435
202	Evolutionary dynamics of cancer in response to targeted combination therapy. <i>ELife</i> , 2013 , 2, e00747	8.9	400
201	Social heuristics shape intuitive cooperation. <i>Nature Communications</i> , 2014 , 5, 3677	17.4	387
2 00	The dynamics of indirect reciprocity. <i>Journal of Theoretical Biology</i> , 1998 , 194, 561-74	2.3	374
199	Stochastic dynamics of invasion and fixation. <i>Physical Review E</i> , 2006 , 74, 011909	2.4	348
198	A spatial model predicts that dispersal and cell turnover limit intratumour heterogeneity. <i>Nature</i> , 2015 , 525, 261-4	50.4	326
197	Evolutionary dynamics in structured populations. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010 , 365, 19-30	5.8	315
196	Antigenic oscillations and shifting immunodominance in HIV-1 infections. <i>Nature</i> , 1995 , 375, 606-11	50.4	293
195	Evolutionary game dynamics in finite populations. <i>Bulletin of Mathematical Biology</i> , 2004 , 66, 1621-44	2.1	279
194	Cooperating with the future. <i>Nature</i> , 2014 , 511, 220-3	50.4	254

193	Humans display a Tooperative phenotypeTthat is domain general and temporally stable. <i>Nature Communications</i> , 2014 , 5, 4939	17.4	252
192	Computational and evolutionary aspects of language. <i>Nature</i> , 2002 , 417, 611-7	50.4	251
191	Only three driver gene mutations are required for the development of lung and colorectal cancers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 118-23	11.5	248
190	Evolutionary cycles of cooperation and defection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 10797-800	11.5	247
189	Origins of lymphatic and distant metastases in human colorectal cancer. <i>Science</i> , 2017 , 357, 55-60	33.3	239
188	Pairwise comparison and selection temperature in evolutionary game dynamics. <i>Journal of Theoretical Biology</i> , 2007 , 246, 522-9	2.3	236
187	Limited heterogeneity of known driver gene mutations among the metastases of individual patients with pancreatic cancer. <i>Nature Genetics</i> , 2017 , 49, 358-366	36.3	228
186	Clonal evolution in patients with chronic lymphocytic leukaemia developing resistance to BTK inhibition. <i>Nature Communications</i> , 2016 , 7, 11589	17.4	220
185	MORE SPATIAL GAMES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1994 , 04, 33-56	2	209
184	Breaking the symmetry between interaction and replacement in evolutionary dynamics on graphs. <i>Physical Review Letters</i> , 2007 , 98, 108106	7.4	199
183	Evolutionary dynamics on any population structure. <i>Nature</i> , 2017 , 544, 227-230	50.4	198
182	The evolution of stochastic strategies in the Prisoner's Dilemma. <i>Acta Applicandae Mathematicae</i> , 1990 , 20, 247-265	1.1	194
181	Evolutionary dynamics in set structured populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 8601-4	11.5	185
180	THE EVOLUTION OF VIRULENCE IN PATHOGENS WITH VERTICAL AND HORIZONTAL TRANSMISSION. <i>Evolution; International Journal of Organic Evolution</i> , 1996 , 50, 1729-1741	3.8	173
179	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
178	Strategy selection in structured populations. <i>Journal of Theoretical Biology</i> , 2009 , 259, 570-81	2.3	168
177	Static network structure can stabilize human cooperation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 17093-8	11.5	166
176	Evolutionary games on cycles. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006 , 273, 2249-56	4.4	165

(1989-2007)

175	Upstream reciprocity and the evolution of gratitude. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007 , 274, 605-9	4.4	165	
174	Powering up with indirect reciprocity in a large-scale field experiment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110 Suppl 2, 10424-9	11.5	155	
173	Evolving cooperation. <i>Journal of Theoretical Biology</i> , 2012 , 299, 1-8	2.3	149	
172	The linear process of somatic evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 14966-9	11.5	149	
171	Minimal functional driver gene heterogeneity among untreated metastases. <i>Science</i> , 2018 , 361, 1033-1	10337.3	147	
170	Evolution of fairness in the one-shot anonymous Ultimatum Game. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 2581-6	11.5	140	
169	Evolutionary graph theory: breaking the symmetry between interaction and replacement. <i>Journal of Theoretical Biology</i> , 2007 , 246, 681-94	2.3	137	
168	Evolutionary dynamics of CRISPR gene drives. <i>Science Advances</i> , 2017 , 3, e1601964	14.3	134	
167	Direct reciprocity in structured populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 9929-34	11.5	130	
166	Antiretroviral dynamics determines HIV evolution and predicts therapy outcome. <i>Nature Medicine</i> , 2012 , 18, 1378-85	50.5	128	
165	Causes of HIV diversity. <i>Nature</i> , 1995 , 376, 125	50.4	122	
164	Development of an oral once-weekly drug delivery system for HIV antiretroviral therapy. <i>Nature Communications</i> , 2018 , 9, 2	17.4	120	
163	Tit-for-tat or win-stay, lose-shift?. <i>Journal of Theoretical Biology</i> , 2007 , 247, 574-80	2.3	120	
162	Analytical results for individual and group selection of any intensity. <i>Bulletin of Mathematical Biology</i> , 2008 , 70, 1410-24	2.1	119	
161	The timetable of evolution. <i>Science Advances</i> , 2017 , 3, e1603076	14.3	115	
160	Evolutionary game dynamics in finite populations with strong selection and weak mutation. <i>Theoretical Population Biology</i> , 2006 , 70, 352-63	1.2	113	
159	The Alternating Prisoner's Dilemma. <i>Journal of Theoretical Biology</i> , 1994 , 168, 219-226	2.3	112	
158	Oscillations in the evolution of reciprocity. <i>Journal of Theoretical Biology</i> , 1989 , 137, 21-6	2.3	111	

157	The evolutionary dynamics of grammar acquisition. <i>Journal of Theoretical Biology</i> , 2001 , 209, 43-59	2.3	100
156	Cooperate without looking: why we care what people think and not just what they do. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 1727-32	11.5	98
155	Games on graphs. EMS Surveys in Mathematical Sciences, 2014, 1, 113-151	1.4	98
154	Current CRISPR gene drive systems are likely to be highly invasive in wild populations. <i>ELife</i> , 2018 , 7,	8.9	96
153	Co-evolution of human immunodeficiency virus and cytotoxic T-lymphocyte responses. <i>Immunological Reviews</i> , 1997 , 159, 17-29	11.3	94
152	Daisy-chain gene drives for the alteration of local populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 8275-8282	11.5	93
151	The continuous prisoner's dilemma: I. linear reactive strategies. <i>Journal of Theoretical Biology</i> , 1999 , 200, 307-21	2.3	90
150	Imperfect drug penetration leads to spatial monotherapy and rapid evolution of multidrug resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E2874-83	11.5	85
149	Limitations of inclusive fitness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 20135-9	11.5	85
148	Spatial dilemmas of diffusible public goods. <i>ELife</i> , 2013 , 2, e01169	8.9	85
148	Spatial dilemmas of diffusible public goods. <i>ELife</i> , 2013 , 2, e01169 Cooperation and control in multiplayer social dilemmas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 16425-30	8.9	85
<u>'</u>	Cooperation and control in multiplayer social dilemmas. <i>Proceedings of the National Academy of</i>		83
147	Cooperation and control in multiplayer social dilemmas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 16425-30 Evolutionary dynamics of tumor suppressor gene inactivation. <i>Proceedings of the National Academy</i>	11.5	83
147 146	Cooperation and control in multiplayer social dilemmas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 16425-30 Evolutionary dynamics of tumor suppressor gene inactivation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 10635-8 Vertical suppression of the EGFR pathway prevents onset of resistance in colorectal cancers.	11.5 11.5	83
147 146 145	Cooperation and control in multiplayer social dilemmas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 16425-30 Evolutionary dynamics of tumor suppressor gene inactivation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 10635-8 Vertical suppression of the EGFR pathway prevents onset of resistance in colorectal cancers. <i>Nature Communications</i> , 2015 , 6, 8305	11.5 11.5 17.4 50.4	83 81 80
147 146 145	Cooperation and control in multiplayer social dilemmas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 16425-30 Evolutionary dynamics of tumor suppressor gene inactivation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 10635-8 Vertical suppression of the EGFR pathway prevents onset of resistance in colorectal cancers. <i>Nature Communications</i> , 2015 , 6, 8305 Evolution of cooperation in stochastic games. <i>Nature</i> , 2018 , 559, 246-249	11.5 11.5 17.4 50.4	83 81 80 80
147 146 145 144	Cooperation and control in multiplayer social dilemmas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 16425-30 Evolutionary dynamics of tumor suppressor gene inactivation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 10635-8 Vertical suppression of the EGFR pathway prevents onset of resistance in colorectal cancers. <i>Nature Communications</i> , 2015 , 6, 8305 Evolution of cooperation in stochastic games. <i>Nature</i> , 2018 , 559, 246-249 Reconstructing metastatic seeding patterns of human cancers. <i>Nature Communications</i> , 2017 , 8, 14114 Quantifying Clonal and Subclonal Passenger Mutations in Cancer Evolution. <i>PLos Computational</i>	11.5 11.5 17.4 50.4	83 81 80 80

139	Timing and heterogeneity of mutations associated with drug resistance in metastatic cancers. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15964-8	11.5	74	
138	Evolutionary construction by staying together and coming together. <i>Journal of Theoretical Biology</i> , 2013 , 320, 10-22	2.3	74	
137	Evolutionary dynamics on graphs: Efficient method for weak selection. <i>Physical Review E</i> , 2009 , 79, 046	7 9 .74	72	
136	An analysis of genetic heterogeneity in untreated cancers. <i>Nature Reviews Cancer</i> , 2019 , 19, 639-650	31.3	71	
135	Prevolutionary dynamics and the origin of evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 14924-7	11.5	70	
134	Spatial heterogeneity in drug concentrations can facilitate the emergence of resistance to cancer therapy. <i>PLoS Computational Biology</i> , 2015 , 11, e1004142	5	69	
133	Effect of immune activation on the dynamics of human immunodeficiency virus replication and on the distribution of viral quasispecies. <i>Journal of Virology</i> , 1998 , 72, 7772-84	6.6	63	
132	How mutation affects evolutionary games on graphs. <i>Journal of Theoretical Biology</i> , 2012 , 299, 97-105	2.3	62	
131	Stochastic evolutionary dynamics of direct reciprocity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010 , 277, 463-8	4.4	58	
130	HIV mutation rate. <i>Nature</i> , 1990 , 347, 522	50.4	58	
129	Adaptive dynamics of extortion and compliance. <i>PLoS ONE</i> , 2013 , 8, e77886	3.7	57	
128	Nowak et al. reply. <i>Nature</i> , 2011 , 471, E9-E10	50.4	55	
127	Direct reciprocity on graphs. Journal of Theoretical Biology, 2007, 247, 462-70	2.3	55	
126	Precancerous neoplastic cells can move through the pancreatic ductal system. <i>Nature</i> , 2018 , 561, 201-2	05 0.4	55	
126	Precancerous neoplastic cells can move through the pancreatic ductal system. <i>Nature</i> , 2018 , 561, 201-2 Memory- strategies of direct reciprocity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 4715-4720	0 <u>5</u> 0.4 11.5	5554	
	Memory- strategies of direct reciprocity. <i>Proceedings of the National Academy of Sciences of the</i>			
125	Memory- strategies of direct reciprocity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 4715-4720 Public goods with punishment and abstaining in finite and infinite populations. <i>Biological Theory</i> ,	11.5	54	

121	Evolution of cooperation on large networks with community structure. <i>Journal of the Royal Society Interface</i> , 2019 , 16, 20180677	4.1	50
120	Increased stem cell proliferation in atherosclerosis accelerates clonal hematopoiesis. <i>Cell</i> , 2021 , 184, 1348-1361.e22	56.2	49
119	Indirect reciprocity with private, noisy, and incomplete information. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 12241-12246	11.5	48
118	Growth dynamics in naturally progressing chronic lymphocytic leukaemia. <i>Nature</i> , 2019 , 570, 474-479	50.4	47
117	Global migration can lead to stronger spatial selection than local migration. <i>Journal of Statistical Physics</i> , 2013 , 151, 637-653	1.5	46
116	Evolutionary performance of zero-determinant strategies in multiplayer games. <i>Journal of Theoretical Biology</i> , 2015 , 374, 115-24	2.3	45
115	Punishment does not promote cooperation under exploration dynamics when anti-social punishment is possible. <i>Journal of Theoretical Biology</i> , 2014 , 360, 163-171	2.3	42
114	HIV results in the frame. Results confirmed. <i>Nature</i> , 1995 , 375, 193	50.4	42
113	From prelife to life: how chemical kinetics become evolutionary dynamics. <i>Accounts of Chemical Research</i> , 2012 , 45, 2088-96	24.3	40
112	Transitions in social complexity along elevational gradients reveal a combined impact of season length and development time on social evolution. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014 , 281,	4.4	39
111	Social dilemmas among unequals. <i>Nature</i> , 2019 , 572, 524-527	50.4	38
110	Genetic control and dynamics of the cellular immune response to the human T-cell leukaemia virus, HTLV-I. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1999 , 354, 691-700	5.8	36
109	Indirect reciprocity with optional interactions. <i>Journal of Theoretical Biology</i> , 2015 , 365, 1-11	2.3	35
108	Reputation Effects in Public and Private Interactions. <i>PLoS Computational Biology</i> , 2015 , 11, e1004527	5	34
107	The Evolutionary Origins of Recurrent Pancreatic Cancer. Cancer Discovery, 2020, 10, 792-805	24.4	33
106	Insight into treatment of HIV infection from viral dynamics models. <i>Immunological Reviews</i> , 2018 , 285, 9-25	11.3	33
105	The molecular clock of neutral evolution can be accelerated or slowed by asymmetric spatial structure. <i>PLoS Computational Biology</i> , 2015 , 11, e1004108	5	32
104	Games among relatives revisited. <i>Journal of Theoretical Biology</i> , 2015 , 378, 103-16	2.3	32

103	Resisting Resistance. Annual Review of Cancer Biology, 2017 , 1, 203-221	13.3	32
102	Genes, environment, and "bad luck". <i>Science</i> , 2017 , 355, 1266-1267	33.3	31
101	Spatiotemporal regulation of clonogenicity in colorectal cancer xenografts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6140-6145	11.5	31
100	Daisy-chain gene drives for the alteration of local populations		31
99	Think global, act local: Preserving the global commons. <i>Scientific Reports</i> , 2016 , 6, 36079	4.9	30
98	Evolutionary dynamics with game transitions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 25398-25404	11.5	30
97	Comparing reactive and memory-one strategies of direct reciprocity. <i>Scientific Reports</i> , 2016 , 6, 25676	4.9	29
96	The general form of Hamilton's rule makes no predictions and cannot be tested empirically. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5665-5670	11.5	27
95	Extended flowering intervals of bamboos evolved by discrete multiplication. <i>Ecology Letters</i> , 2015 , 18, 653-9	10	27
94	Computational complexity of ecological and evolutionary spatial dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 15636-41	11.5	27
93	Construction of arbitrarily strong amplifiers of natural selection using evolutionary graph theory. <i>Communications Biology</i> , 2018 , 1, 71	6.7	26
92	The effect of one additional driver mutation on tumor progression. <i>Evolutionary Applications</i> , 2013 , 6, 34-45	4.8	26
91	Conjoining uncooperative societies facilitates evolution of cooperation. <i>Nature Human Behaviour</i> , 2018 , 2, 492-499	12.8	26
90	Universality of fixation probabilities in randomly structured populations. <i>Scientific Reports</i> , 2014 , 4, 669	2 4.9	25
89	Natural selection drives the evolution of ant life cycles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 12585-90	11.5	25
88	Genetic instability and clonal expansion. <i>Journal of Theoretical Biology</i> , 2006 , 241, 26-32	2.3	25
87	The Trivers-Willard hypothesis: sex ratio or investment?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016 , 283,	4.4	25
86	Optional games on cycles and complete graphs. <i>Journal of Theoretical Biology</i> , 2014 , 356, 98-112	2.3	24

85	Drift-Induced Selection Between Male and Female Heterogamety. <i>Genetics</i> , 2017 , 207, 711-727	4	24
84	Amplification on Undirected Population Structures: Comets Beat Stars. <i>Scientific Reports</i> , 2017 , 7, 82	4.9	24
83	Rand et al. reply. <i>Nature</i> , 2013 , 498, E2-E3	50.4	24
82	Language dynamics in finite populations. <i>Journal of Theoretical Biology</i> , 2003 , 221, 445-57	2.3	24
81	Public goods games in populations with fluctuating size. <i>Theoretical Population Biology</i> , 2018 , 121, 72-8	341.2	23
80	Four classes of interactions for evolutionary games. <i>Physical Review E</i> , 2015 , 92, 022820	2.4	23
79	Selection for replicases in protocells. <i>PLoS Computational Biology</i> , 2013 , 9, e1003051	5	23
78	Tumour and immune cell dynamics explain the PSA bounce after prostate cancer brachytherapy. <i>British Journal of Cancer</i> , 2016 , 115, 195-202	8.7	23
77	Prediction of future BSE spread. <i>Nature</i> , 1996 , 381, 119	50.4	22
76	Consecutive seeding and transfer of genetic diversity in metastasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 14129-14137	11.5	21
75	Inclusive fitness theorizing invokes phenomena that are not relevant for the evolution of eusociality. <i>PLoS Biology</i> , 2015 , 13, e1002134	9.7	21
74	Heterogeneity in background fitness acts as a suppressor of selection. <i>Journal of Theoretical Biology</i> , 2014 , 343, 178-85	2.3	21
73	The time scale of evolutionary innovation. <i>PLoS Computational Biology</i> , 2014 , 10, e1003818	5	21
72	A rigorous measure of genome-wide genetic shuffling that takes into account crossover positions and Mendel's second law. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 1659-1668	11.5	21
71	Population structure determines the tradeoff between fixation probability and fixation time. <i>Communications Biology</i> , 2019 , 2, 138	6.7	20
70	Limits on amplifiers of natural selection under death-Birth updating. <i>PLoS Computational Biology</i> , 2020 , 16, e1007494	5	20
69	Religious motivations for cooperation: an experimental investigation using explicit primes. <i>Religion, Brain and Behavior</i> , 2014 , 4, 31-48	0.6	20
68	Forgiver triumphs in alternating Prisoner's Dilemma. <i>PLoS ONE</i> , 2013 , 8, e80814	3.7	20

67	Equal Pay for All Prisoners. American Mathematical Monthly, 1997, 104, 303-305	0.3	20
66	Robustness of cooperation. <i>Nature</i> , 1996 , 379, 126-126	50.4	20
65	Phenotypic Heterogeneity and the Evolution of Bacterial Life Cycles. <i>PLoS Computational Biology</i> , 2016 , 12, e1004764	5	20
64	Dynamics of prebiotic RNA reproduction illuminated by chemical game theory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 5030-5	11.5	20
63	Indirect Reciprocity with Optional Interactions and Private Information. <i>Games</i> , 2015 , 6, 438-457	0.9	19
62	Crosstalk in concurrent repeated games impedes direct reciprocity and requires stronger levels of forgiveness. <i>Nature Communications</i> , 2018 , 9, 555	17.4	17
61	Evolution of worker policing. <i>Journal of Theoretical Biology</i> , 2016 , 399, 103-16	2.3	16
60	Life cycle synchronization is a viral drug resistance mechanism. <i>PLoS Computational Biology</i> , 2018 , 14, e1005947	5	16
59	Fourier decomposition of payoff matrix for symmetric three-strategy games. <i>Physical Review E</i> , 2014 , 90, 042811	2.4	16
58	The evolution of non-reproductive workers in insect colonies with haplodiploid genetics. <i>ELife</i> , 2015 , 4, e08918	8.9	16
57	The Red Queen and King in finite populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E5396-E5405	11.5	15
56	An experimental investigation of evolutionary dynamics in the Rock-Paper-Scissors game. <i>Scientific Reports</i> , 2015 , 5, 8817	4.9	15
55	Equal Pay for All Prisoners. American Mathematical Monthly, 1997, 104, 303	0.3	15
54	A unified framework of direct and indirect reciprocity. <i>Nature Human Behaviour</i> , 2021 , 5, 1292-1302	12.8	15
53	Cooperative adaptation to therapy (CAT) confers resistance in heterogeneous non-small cell lung cancer. <i>PLoS Computational Biology</i> , 2019 , 15, e1007278	5	14
52	Games of multicellularity. <i>Journal of Theoretical Biology</i> , 2016 , 403, 143-158	2.3	14
51	HOST POPULATION STRUCTURE AND THE EVOLUTION OF VIRULENCE: A "LAW OF DIMINISHING RETURNS". <i>Evolution; International Journal of Organic Evolution</i> , 1995 , 49, 743-748	3.8	13
50	Evolutionary games on isothermal graphs. <i>Nature Communications</i> , 2019 , 10, 5107	17.4	12

49	Payoff components and their effects in a spatial three-strategy evolutionary social dilemma. <i>Physical Review E</i> , 2015 , 92, 012813	2.4	12
48	Social goods dilemmas in heterogeneous societies. <i>Nature Human Behaviour</i> , 2020 , 4, 819-831	12.8	11
47	Recombination and selection against introgressed DNA		11
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