## Robert M May

## 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.

182 37,632 129 72 h-index g-index citations papers 182 26 41,997 7.53 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
129	The price of complexity in financial networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 10031-6	11.5	99
128	Tracking and forecasting ecosystem interactions in real time. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2016</b> , 283,	4.4	106
127	Reply to Luo et al.: Robustness of causal effects of galactic cosmic rays on interannual variation in global temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E4640-1	11.5	, 5
126	Fundamental ecology is fundamental. <i>Trends in Ecology and Evolution</i> , <b>2015</b> , 30, 9-16	10.9	41
125	Dynamical evidence for causality between galactic cosmic rays and interannual variation in global temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 3253-6	11.5	55
124	Back to the fundamentals: a reply to Barot et al. <i>Trends in Ecology and Evolution</i> , <b>2015</b> , 30, 370-1	10.9	2
123	Combined inequality in wealth and risk leads to disaster in the climate change game. <i>Climatic Change</i> , <b>2013</b> , 120, 815-830	4.5	33
122	John Snowß legacy: epidemiology without borders. <i>Lancet, The</i> , <b>2013</b> , 381, 1302-11	40	26
121	Can we name Earth® species before they go extinct?. <i>Science</i> , <b>2013</b> , 339, 413-6	33.3	381
120	Response to comments on "Can we name Earth® species before they go extinct?". <i>Science</i> , <b>2013</b> , 341, 237	33.3	18
119	Networks and webs in ecosystems and financial systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2013</b> , 371, 20120376	3	22
118	Q&A: extinctions and the impact of Homo sapiens. <i>BMC Biology</i> , <b>2012</b> , 10, 106	7.3	
117	Size and complexity in model financial systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 18338-43	11.5	77
116	Why should we be concerned about loss of biodiversity. <i>Comptes Rendus - Biologies</i> , <b>2011</b> , 334, 346-50	1.4	12
115	Systemic risk in banking ecosystems. <i>Nature</i> , <b>2011</b> , 469, 351-5	50.4	812
114	Individual versus systemic risk and the RegulatorB Dilemma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 12647-52	11.5	90
113	Are exploited fish populations stable?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, E1224-5; author reply E1226	11.5	26

## (2004-2011)

112	Science as organized scepticism. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2011</b> , 369, 4685-9	3	5
111	Why worry about how many species and their loss?. <i>PLoS Biology</i> , <b>2011</b> , 9, e1001130	9.7	45
110	Ecological science and tomorrowß world. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2010</b> , 365, 41-7	5.8	56
109	Systemic risk: the dynamics of model banking systems. <i>Journal of the Royal Society Interface</i> , <b>2010</b> , 7, 823-38	4.1	172
108	Ecology. Tropical arthropod species, more or less?. <i>Science</i> , <b>2010</b> , 329, 41-2	33.3	75
107	Food-web assembly and collapse: mathematical models and implications for conservation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 364, 1643-6	5.8	28
106	Why fishing magnifies fluctuations in fish abundance. <i>Nature</i> , <b>2008</b> , 452, 835-9	50.4	464
105	Disease and the abundance and distribution of bird populations: a summary. <i>Ibis</i> , <b>2008</b> , 137, S85-S86	1.9	15
104	Parasites, people and policy: infectious diseases and the Millennium Development Goals. <i>Trends in Ecology and Evolution</i> , <b>2007</b> , 22, 497-503	10.9	25
103	Observations on related ecological exponents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 6931-3	11.5	23
102	Network structure and the biology of populations. <i>Trends in Ecology and Evolution</i> , <b>2006</b> , 21, 394-9	10.9	215
101	Fishing elevates variability in the abundance of exploited species. <i>Nature</i> , <b>2006</b> , 443, 859-62	50.4	415
100	Infectious disease: can we avert a lethal flu pandemic?. Current Biology, 2005, 15, R922-4	6.3	6
99	Subnets of scale-free networks are not scale-free: sampling properties of networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 4221-4	11.5	359
98	Tomorrow® taxonomy: collecting new species in the field will remain the rate-limiting step. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2004</b> , 359, 733-4	5.8	35
97	Raising Europeß game. <i>Nature</i> , <b>2004</b> , 430, 831-2	50.4	4
96	Uses and abuses of mathematics in biology. <i>Science</i> , <b>2004</b> , 303, 790-3	33.3	280
95	Simple mathematical models with very complicated dynamics <b>2004</b> , 85-93		36

94	Infectious disease dynamics: What characterizes a successful invader?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2001</b> , 356, 901-10	5.8	114
93	Infection dynamics on scale-free networks. <i>Physical Review E</i> , <b>2001</b> , 64, 066112	2.4	522
92	Epidemiology. How viruses spread among computers and people. <i>Science</i> , <b>2001</b> , 292, 1316-7	33.3	442
91	Synchronicity, chaos and population cycles: spatial coherence in an uncertain world. <i>Trends in Ecology and Evolution</i> , <b>1999</b> , 14, 417-418	10.9	33
90	Extinction and the loss of evolutionary history. <i>Science</i> , <b>1997</b> , 278, 692-4	33.3	262
89	Anti-viral drug treatment: dynamics of resistance in free virus and infected cell populations. <i>Journal of Theoretical Biology</i> , <b>1997</b> , 184, 203-17	2.3	203
88	Spatial heterogeneity in epidemic models. <i>Journal of Theoretical Biology</i> , <b>1996</b> , 179, 1-11	2.3	232
87	The maintenance of strain structure in populations of recombining infectious agents. <i>Nature Medicine</i> , <b>1996</b> , 2, 437-42	50.5	241
86	Robustness of cooperation. <i>Nature</i> , <b>1996</b> , 379, 126-126	50.4	20
85	Explaining "Linguistic Features" of Noncoding DNA. <i>Science</i> , <b>1996</b> , 271, 14-15	33.3	
84	Explaining "Linguistic Features" of Noncoding DNA. <i>Science</i> , <b>1996</b> , 271, 14-15	33.3	
83	The rise and fall and rise of tuberculosis. <i>Nature Medicine</i> , <b>1995</b> , 1, 752	50.5	
82	Antigenic oscillations and shifting immunodominance in HIV-1 infections. <i>Nature</i> , <b>1995</b> , 375, 606-11	50.4	293
81	The co-evolutionary dynamics of viruses and their hosts <b>1995</b> , 192-212		6
80	Necessity and Chance: deterministic chaos in ecology and evolution. <i>Bulletin of the American Mathematical Society</i> , <b>1995</b> , 32, 291-309	1.3	29
79	Spatial games and evolution of cooperation. <i>Lecture Notes in Computer Science</i> , <b>1995</b> , 747-759	0.9	3
78	MORE SPATIAL GAMES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, <b>1994</b> , 04, 33-56	2	209
77	Ecological science and the management of protected areas. <i>Biodiversity and Conservation</i> , <b>1994</b> , 3, 437	-4 <u>4</u> .8	20

76	Uncertainties in extinction rates. <i>Nature</i> , <b>1994</b> , 368, 105-105	50.4	45
75	Species coexistence and self-organizing spatial dynamics. <i>Nature</i> , <b>1994</b> , 370, 290-292	50.4	299
74	Habitat destruction and the extinction debt. <i>Nature</i> , <b>1994</b> , 371, 65-66	50.4	1905
73	Spatial Chaos and its Role in Ecology and Evolution. <i>Lecture Notes in Biomathematics</i> , <b>1994</b> , 326-344		5
72	PHYLOGENIES WITHOUT FOSSILS. Evolution; International Journal of Organic Evolution, 1994, 48, 523-5	5 <b>29</b> .8	126
71	THE SPATIAL DILEMMAS OF EVOLUTION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, <b>1993</b> , 03, 35-78	2	460
70	AIDS pathogenesis. <i>Aids</i> , <b>1993</b> , 7, S3-S18	3.5	42
69	Marine species richness. <i>Nature</i> , <b>1993</b> , 361, 598-598	50.4	9
68	Dynamics of Metapopulations: Habitat Destruction and Competitive Coexistence. <i>Journal of Animal Ecology</i> , <b>1992</b> , 61, 37	4.7	345
67	Density-dependent populations. <i>Nature</i> , <b>1992</b> , 356, 391-392	50.4	3
66	Evolutionary games and spatial chaos. <i>Nature</i> , <b>1992</b> , 359, 826-829	50.4	2767
65	Comments on the Sustainable Biosphere Initiative. Conservation Biology, 1991, 5, 548-549	6	3
64	Nonlinear forecasting as a way of distinguishing chaos from measurement error in time series. <i>Nature</i> , <b>1990</b> , 344, 734-41	50.4	1320
63	Applications of fractals in ecology. <i>Trends in Ecology and Evolution</i> , <b>1990</b> , 5, 79-86	10.9	315
62	Copulation dynamics. Out for the sperm count. <i>Nature</i> , <b>1989</b> , 337, 508-9	50.4	56
61	High table tales. <i>Nature</i> , <b>1989</b> , 341, 695-695	50.4	1
60	Networks of sexual contacts. <i>Aids</i> , <b>1989</b> , 3, 807-818	3.5	206
59	22. The Population Biology of Host-Parasite and Host-Parasitoid Associations <b>1989</b> , 319-347		13

58	The Transmission Dynamics of Human Immunodeficiency Virus (HIV). <i>Biomathematics</i> , <b>1989</b> , 263-311		3
57	Complex dynamical behaviour in the interaction between HIV and the immune system <b>1989</b> , 335-349		14
56	Epidemiological parameters of HIV transmission. <i>Nature</i> , <b>1988</b> , 333, 514-9	50.4	287
55	Possible demographic consequences of HIV/AIDS epidemics. I. assuming HIV infection always leads to AIDS. <i>Mathematical Biosciences</i> , <b>1988</b> , 90, 475-505	3.9	61
54	Conservation and Disease. <i>Conservation Biology</i> , <b>1988</b> , 2, 28-30	6	93
53	Nonlinearities and complex behavior in simple ecological and epidemiological models. <i>Annals of the New York Academy of Sciences</i> , <b>1987</b> , 504, 1-15	6.5	14
52	Chaos and the dynamics of biological populations. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , <b>1987</b> , 2, 225-245		14
51	Transmission dynamics of HIV infection. <i>Nature</i> , <b>1987</b> , 326, 137-42	50.4	598
50	The Search for Patterns in the Balance of Nature: Advances and Retreats. <i>Ecology</i> , <b>1986</b> , 67, 1115-1126	4.6	174
49	Population Biology of Microparasitic Infections. <i>Biomathematics</i> , <b>1986</b> , 405-442		17
48	Regulation of Populations with Nonoverlapping Generations by Microparasites: A Purely Chaotic System. <i>American Naturalist</i> , <b>1985</b> , 125, 573-584	3.7	55
47	Vaccination and herd immunity to infectious diseases. <i>Nature</i> , <b>1985</b> , 318, 323-9	50.4	475
46	Ecological Aspects of Disease and Human Populations. <i>American Zoologist</i> , <b>1985</b> , 25, 441-450		9
45	Helminth infections of humans: mathematical models, population dynamics, and control. <i>Advances in Parasitology</i> , <b>1985</b> , 24, 1-101	3.2	401
44	Endemic infections in growing populations. <i>Mathematical Biosciences</i> , <b>1985</b> , 77, 141-156	3.9	33
43	Spatial, temporal, and genetic heterogeneity in host populations and the design of immunization programmes. <i>Mathematical Medicine and Biology</i> , <b>1984</b> , 1, 233-66	1.3	84
42	Spatial heterogeneity and the design of immunization programs. <i>Mathematical Biosciences</i> , <b>1984</b> , 72, 83-111	3.9	182
41	Long-term biological consequences of nuclear war. <i>Science</i> , <b>1983</b> , 222, 1293-300	33.3	134

40	Reprints of books previously reviewed in science. <i>Science</i> , <b>1983</b> , 221, 544	33.3	
39	Population dynamics of human helminth infections: control by chemotherapy. <i>Nature</i> , <b>1982</b> , 297, 557-6	350.4	227
38	Population dynamics of fox rabies in Europe. <i>Nature</i> , <b>1981</b> , 289, 765-71	50.4	371
37	The Role of Theory in Ecology. <i>American Zoologist</i> , <b>1981</b> , 21, 903-910		21
36	The Dynamics of Multiparasitoid-Host Interactions. <i>American Naturalist</i> , <b>1981</b> , 117, 234-261	3.7	133
35	NOTES ON SOME TOPICS IN THEORETICAL ECOLOGY, IN RELATION TO THE MANAGEMENT OF LOCALLY ABUNDANT POPULATIONS OF MAMMALS <b>1981</b> , 205-216		
34	Period doubling and the onset of turbulence: An analytic estimate of the Feigenbaum ratio. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1980</b> , 78, 1-3	2.3	23
33	Evolutionarily stable dispersal strategies. <i>Journal of Theoretical Biology</i> , <b>1980</b> , 82, 205-30	2.3	352
32	NONLINEAR PHENOMENA IN ECOLOGY AND EPIDEMIOLOGY*. <i>Annals of the New York Academy of Sciences</i> , <b>1980</b> , 357, 267-281	6.5	56
31	Population biology of infectious diseases: Part I. <i>Nature</i> , <b>1979</b> , 280, 361-7	50.4	2001
30	Population biology of infectious diseases: Part I. <i>Nature</i> , <b>1979</b> , 280, 361-7  Population biology of infectious diseases: Part II. <i>Nature</i> , <b>1979</b> , 280, 455-61	50.4	2001 893
			893
30	Population biology of infectious diseases: Part II. <i>Nature</i> , <b>1979</b> , 280, 455-61  BIFURCATIONS AND DYNAMIC COMPLEXITY IN ECOLOGICAL SYSTEMS*. <i>Annals of the New York</i>	50.4	893
30	Population biology of infectious diseases: Part II. <i>Nature</i> , <b>1979</b> , 280, 455-61  BIFURCATIONS AND DYNAMIC COMPLEXITY IN ECOLOGICAL SYSTEMS*. <i>Annals of the New York Academy of Sciences</i> , <b>1979</b> , 316, 517-529	50.4	893
30 29 28	Population biology of infectious diseases: Part II. <i>Nature</i> , <b>1979</b> , 280, 455-61  BIFURCATIONS AND DYNAMIC COMPLEXITY IN ECOLOGICAL SYSTEMS*. <i>Annals of the New York Academy of Sciences</i> , <b>1979</b> , 316, 517-529  Management of multispecies fisheries. <i>Science</i> , <b>1979</b> , 205, 267-77  Regulation and Stability of Host-Parasite Population Interactions: II. Destabilizing Processes.	50.4 6.5 33.3	893 64 4°3
30 29 28	Population biology of infectious diseases: Part II. <i>Nature</i> , <b>1979</b> , 280, 455-61  BIFURCATIONS AND DYNAMIC COMPLEXITY IN ECOLOGICAL SYSTEMS*. <i>Annals of the New York Academy of Sciences</i> , <b>1979</b> , 316, 517-529  Management of multispecies fisheries. <i>Science</i> , <b>1979</b> , 205, 267-77  Regulation and Stability of Host-Parasite Population Interactions: II. Destabilizing Processes. <i>Journal of Animal Ecology</i> , <b>1978</b> , 47, 249  Host-Parasitoid Systems in Patchy Environments: A Phenomenological Model. <i>Journal of Animal</i>	50.4 6.5 33.3 4.7	893 64 403 393
30 29 28 27 26	Population biology of infectious diseases: Part II. <i>Nature</i> , <b>1979</b> , 280, 455-61  BIFURCATIONS AND DYNAMIC COMPLEXITY IN ECOLOGICAL SYSTEMS*. <i>Annals of the New York Academy of Sciences</i> , <b>1979</b> , 316, 517-529  Management of multispecies fisheries. <i>Science</i> , <b>1979</b> , 205, 267-77  Regulation and Stability of Host-Parasite Population Interactions: II. Destabilizing Processes. <i>Journal of Animal Ecology</i> , <b>1978</b> , 47, 249  Host-Parasitoid Systems in Patchy Environments: A Phenomenological Model. <i>Journal of Animal Ecology</i> , <b>1978</b> , 47, 833	50.4 6.5 33.3 4.7	893 64 403 393 300

22	Dynamical aspects of host-parasite associations: CroftonB model revisited. <i>Parasitology</i> , <b>1977</b> , 75, 259-	2 <b>7.6</b> 7	56
21	Togetherness among Schistosomes: its effects on the dynamics of the infection. <i>Mathematical Biosciences</i> , <b>1977</b> , 35, 301-343	3.9	176
20	Thresholds and breakpoints in ecosystems with a multiplicity of stable states. <i>Nature</i> , <b>1977</b> , 269, 471-47	730.4	1121
19	Dispersal in stable habitats. <i>Nature</i> , <b>1977</b> , 269, 578-581	50.4	1041
18	A note on difference-delay equations. <i>Theoretical Population Biology</i> , <b>1976</b> , 9, 178-87	1.2	119
17	Bifurcations and Dynamic Complexity in Simple Ecological Models. <i>American Naturalist</i> , <b>1976</b> , 110, 573-	59 <i>9</i>	928
16	Simple mathematical models with very complicated dynamics. <i>Nature</i> , <b>1976</b> , 261, 459-67	50.4	4604
15	Biological populations obeying difference equations: stable points, stable cycles, and chaos. <i>Journal of Theoretical Biology</i> , <b>1975</b> , 51, 511-24	2.3	337
14	Time delays are not necessarily destabilizing. <i>Mathematical Biosciences</i> , <b>1975</b> , 27, 109-117	3.9	58
13	Nonlinear Aspects of Competition Between Three Species. <i>SIAM Journal on Applied Mathematics</i> , <b>1975</b> , 29, 243-253	1.8	749
12	Stability in ecosystems: some comments <b>1975</b> , 161-168		26
11	On the theory of niche overlap. <i>Theoretical Population Biology</i> , <b>1974</b> , 5, 297-332	1.2	150
10	Ecosystem Patterns in Randomly Fluctuating Environments <b>1974</b> , 1-50		36
9	Time-Delay Versus Stability in Population Models with Two and Three Trophic Levels. <i>Ecology</i> , <b>1973</b> , 54, 315-325	4.6	261
8	Stability in Randomly Fluctuating Versus Deterministic Environments. <i>American Naturalist</i> , <b>1973</b> , 107, 621-650	3.7	236
7	On Relationships Among Various Types of Population Models. <i>American Naturalist</i> , <b>1973</b> , 107, 46-57	3.7	90
6	Will a large complex system be stable?. <i>Nature</i> , <b>1972</b> , 238, 413-4	50.4	1662
5	Stability in multispecies community models. <i>Mathematical Biosciences</i> , <b>1971</b> , 12, 59-79	3.9	147

## LIST OF PUBLICATIONS

4	Some mathematical remarks on the paradox of voting. <i>Systems Research and Behavioral Science</i> , <b>1971</b> , 16, 143-151		87
3	Magnetic Properties of Charged Ideal Quantum Gases in n Dimensions. <i>Journal of Mathematical Physics</i> , <b>1965</b> , 6, 1462-1468	1.2	34
2	A New Method for Deuteron Stripping Calculations (II). <i>Nature</i> , <b>1965</b> , 207, 1348-1349	50.4	11
1	The Dynamics of PredatorBrey and ResourceHarvester Systems431-457		