

# Simon A Levin

## List of Publications by Year in descending order

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502  
papers

68,187  
citations

906

116  
h-index

834

245  
g-index

541  
all docs

541  
docs citations

541  
times ranked

55420  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Problem of Pattern and Scale in Ecology: The Robert H. MacArthur Award Lecture. <i>Ecology</i> , 1992, 73, 1943-1967.	3.2	5,366
2	Global trends in antimicrobial use in food animals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5649-5654.	7.1	2,521
3	Effective leadership and decision-making in animal groups on the move. <i>Nature</i> , 2005, 433, 513-516.	27.8	2,214
4	Global increase and geographic convergence in antibiotic consumption between 2000 and 2015. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3463-E3470.	7.1	1,907
5	Global antibiotic consumption 2000 to 2010: an analysis of national pharmaceutical sales data. <i>Lancet Infectious Diseases</i> , The, 2014, 14, 742-750.	9.1	1,719
6	Anticipating Critical Transitions. <i>Science</i> , 2012, 338, 344-348.	12.6	1,607
7	Economic Growth, Carrying Capacity, and the Environment. <i>Science</i> , 1995, 268, 520-521.	12.6	1,435
8	Ecosystems and the Biosphere as Complex Adaptive Systems. <i>Ecosystems</i> , 1998, 1, 431-436.	3.4	1,171
9	Towards a general theory of adaptive walks on rugged landscapes. <i>Journal of Theoretical Biology</i> , 1987, 128, 11-45.	1.7	1,127
10	Intertidal Landscapes: Disturbance and the Dynamics of Pattern. <i>Ecological Monographs</i> , 1981, 51, 145-178.	5.4	1,047
11	The Global Extent and Determinants of Savanna and Forest as Alternative Biome States. <i>Science</i> , 2011, 334, 230-232.	12.6	1,039
12	Marine Taxa Track Local Climate Velocities. <i>Science</i> , 2013, 341, 1239-1242.	12.6	1,025
13	Dispersion and Population Interactions. <i>American Naturalist</i> , 1974, 108, 207-228.	2.1	979
14	The Importance of Being Discrete (and Spatial). <i>Theoretical Population Biology</i> , 1994, 46, 363-394.	1.1	915
15	ECOLOGY: The Value of Nature and the Nature of Value. <i>Science</i> , 2000, 289, 395-396.	12.6	783
16	Disturbance, Patch Formation, and Community Structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1974, 71, 2744-2747.	7.1	769
17	Optimal nitrogen-to-phosphorus stoichiometry of phytoplankton. <i>Nature</i> , 2004, 429, 171-174.	27.8	767
18	Trading-off fish biodiversity, food security, and hydropower in the Mekong River Basin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 5609-5614.	7.1	725

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19	Diffusion and Ecological Problems: Modern Perspectives. <i>Interdisciplinary Applied Mathematics</i> , 2001, ,	0.3	696
20	Influence of nonlinear incidence rates upon the behavior of SIRS epidemiological models. <i>Journal of Mathematical Biology</i> , 1986, 23, 187-204.	1.9	670
21	The Ecology and Evolution of Seed Dispersal: A Theoretical Perspective. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2003, 34, 575-604.	8.3	653
22	Ecology for bankers. <i>Nature</i> , 2008, 451, 893-894.	27.8	651
23	The Sustainable Biosphere Initiative: An Ecological Research Agenda: A Report from the Ecological Society of America. <i>Ecology</i> , 1991, 72, 371-412.	3.2	633
24	Dynamical behavior of epidemiological models with nonlinear incidence rates. <i>Journal of Mathematical Biology</i> , 1987, 25, 359-380.	1.9	630
25	Are We Consuming Too Much?. <i>Journal of Economic Perspectives</i> , 2004, 18, 147-172.	5.9	590
26	Community Equilibria and Stability, and an Extension of the Competitive Exclusion Principle. <i>American Naturalist</i> , 1970, 104, 413-423.	2.1	565
27	Mechanisms of long-distance dispersal of seeds by wind. <i>Nature</i> , 2002, 418, 409-413.	27.8	565
28	Comparing Classical Community Models: Theoretical Consequences for Patterns of Diversity. <i>American Naturalist</i> , 2002, 159, 1-23.	2.1	552
29	Social-ecological systems as complex adaptive systems: modeling and policy implications. <i>Environment and Development Economics</i> , 2013, 18, 111-132.	1.5	530
30	Economic growth, carrying capacity, and the environment. <i>Ecological Economics</i> , 1995, 15, 91-95.	5.7	521
31	Selection of Intermediate Rates of Increase in Parasite-Host Systems. <i>American Naturalist</i> , 1981, 117, 308-315.	2.1	477
32	Social norms as solutions. <i>Science</i> , 2016, 354, 42-43.	12.6	476
33	Does aquaculture add resilience to the global food system?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13257-13263.	7.1	468
34	Reducing antimicrobial use in food animals. <i>Science</i> , 2017, 357, 1350-1352.	12.6	448
35	Dispersal strategies in patchy environments. <i>Theoretical Population Biology</i> , 1984, 26, 165-191.	1.1	444
36	Spread of invading organisms. <i>Landscape Ecology</i> , 1990, 4, 177-188.	4.2	440

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37	Strong latitudinal patterns in the elemental ratios of marine plankton and organic matter. <i>Nature Geoscience</i> , 2013, 6, 279-283.	12.9	432
38	Resilience, Robustness, and Marine Ecosystem-based Management. <i>BioScience</i> , 2008, 58, 27-32.	4.9	416
39	Stochastic Spatial Models: A User's Guide to Ecological Applications. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1994, 343, 329-350.	4.0	398
40	Phenotypic diversity and ecosystem functioning in changing environments: A theoretical framework. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 11376-11381.	7.1	395
41	A Theoretical Framework for Data Analysis of Wind Dispersal of Seeds and Pollen. <i>Ecology</i> , 1989, 70, 329-338.	3.2	379
42	The role of mosaic phenomena in natural communities. <i>Theoretical Population Biology</i> , 1977, 12, 117-139.	1.1	377
43	Uninformed Individuals Promote Democratic Consensus in Animal Groups. <i>Science</i> , 2011, 334, 1578-1580.	12.6	354
44	Mathematical and Computational Challenges in Population Biology and Ecosystems Science. <i>Science</i> , 1997, 275, 334-343.	12.6	351
45	The Evolution of Quorum Sensing in Bacterial Biofilms. <i>PLoS Biology</i> , 2008, 6, e14.	5.6	343
46	Visual sensory networks and effective information transfer in animal groups. <i>Current Biology</i> , 2013, 23, R709-R711.	3.9	343
47	Tree cover in sub-Saharan Africa: Rainfall and fire constrain forest and savanna as alternative stable states. <i>Ecology</i> , 2011, 92, 1063-1072.	3.2	342
48	Positive feedbacks promote power-law clustering of Kalahari vegetation. <i>Nature</i> , 2007, 449, 209-212.	27.8	337
49	Hypothesis for origin of planktonic patchiness. <i>Nature</i> , 1976, 259, 659-659.	27.8	335
50	From Individuals to Aggregations: the Interplay between Behavior and Physics. <i>Journal of Theoretical Biology</i> , 1999, 196, 397-454.	1.7	330
51	Looming Global-Scale Failures and Missing Institutions. <i>Science</i> , 2009, 325, 1345-1346.	12.6	317
52	Dynamical resonance can account for seasonality of influenza epidemics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16915-16916.	7.1	311
53	Evolution of human-driven fire regimes in Africa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 847-852.	7.1	293
54	Allelopathy in Spatially Distributed Populations. <i>Journal of Theoretical Biology</i> , 1997, 185, 165-171.	1.7	283

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55	Coherence and Conservation. <i>Science</i> , 2000, 290, 1360-1364.	12.6	279
56	Our future in the Anthropocene biosphere. <i>Ambio</i> , 2021, 50, 834-869.	5.5	275
57	Resilience in natural and socioeconomic systems. <i>Environment and Development Economics</i> , 1998, 3, 221-262.	1.5	272
58	On the use of IPCC-class models to assess the impact of climate on Living Marine Resources. <i>Progress in Oceanography</i> , 2011, 88, 1-27.	3.2	272
59	The Dynamics of Herds: From Individuals to Aggregations. <i>Journal of Theoretical Biology</i> , 1996, 182, 85-98.	1.7	269
60	The dynamics of cocirculating influenza strains conferring partial cross-immunity. <i>Journal of Mathematical Biology</i> , 1997, 35, 825-842.	1.9	268
61	LEAKY PREZYGOTIC ISOLATION AND POROUS GENOMES: RAPID INTROGRESSION OF MATERNALLY INHERITED DNA. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 720-729.	2.3	265
62	Extinction Thresholds and Metapopulation Persistence in Dynamic Landscapes. <i>American Naturalist</i> , 2000, 156, 478-494.	2.1	264
63	Complex adaptive systems: Exploring the known, the unknown and the unknowable. <i>Bulletin of the American Mathematical Society</i> , 2002, 40, 3-20.	1.5	264
64	Phytoplankton growth and stoichiometry under multiple nutrient limitation. <i>Limnology and Oceanography</i> , 2004, 49, 1463-1470.	3.1	263
65	Generalized Models Reveal Stabilizing Factors in Food Webs. <i>Science</i> , 2009, 325, 747-750.	12.6	249
66	Mechanistic Analytical Models for Long-Distance Seed Dispersal by Wind. <i>American Naturalist</i> , 2005, 166, 368-381.	2.1	245
67	Coevolutionary arms races between bacteria and bacteriophage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 9535-9540.	7.1	245
68	Epidemiological models with age structure, proportionate mixing, and cross-immunity. <i>Journal of Mathematical Biology</i> , 1989, 27, 233-258.	1.9	244
69	Limitations of Laboratory Bioassays: The Need for Ecosystem-Level Testing. <i>BioScience</i> , 1985, 35, 165-171.	4.9	233
70	Ecology and evolution of the flu. <i>Trends in Ecology and Evolution</i> , 2002, 17, 334-340.	8.7	233
71	Spatial Aspects of Interspecific Competition. <i>Theoretical Population Biology</i> , 1998, 53, 30-43.	1.1	230
72	Aggregation in model ecosystems. I. Perfect aggregation. <i>Ecological Modelling</i> , 1987, 37, 287-302.	2.5	221

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73	Cascading regime shifts within and across scales. <i>Science</i> , 2018, 362, 1379-1383.	12.6	220
74	The Effects of Disturbance Architecture on Landscape-Level Population Dynamics. <i>Ecology</i> , 1996, 77, 375-394.	3.2	215
75	Spatial attributes and reserve design models: A review. <i>Environmental Modeling and Assessment</i> , 2005, 10, 163-181.	2.2	215
76	Immune life history, vaccination, and the dynamics of SARS-CoV-2 over the next 5 years. <i>Science</i> , 2020, 370, 811-818.	12.6	210
77	Sex-Ratio Selection in Species with Helpers-At-The-Nest. <i>American Naturalist</i> , 1986, 127, 1-8.	2.1	207
78	Hemagglutinin sequence clusters and the antigenic evolution of influenza A virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 6263-6268.	7.1	205
79	Quantifying resilience of humans and other animals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11883-11890.	7.1	204
80	Social Norms and Global Environmental Challenges: The Complex Interaction of Behaviors, Values, and Policy. <i>BioScience</i> , 2013, 63, 164-175.	4.9	202
81	Termite mounds can increase the robustness of dryland ecosystems to climatic change. <i>Science</i> , 2015, 347, 651-655.	12.6	202
82	A Simulation Model of the Population Dynamics and Evolution of Myxomatosis. <i>Ecological Monographs</i> , 1990, 60, 423-447.	5.4	200
83	Transnational corporations and the challenge of biosphere stewardship. <i>Nature Ecology and Evolution</i> , 2019, 3, 1396-1403.	7.8	194
84	A Spatial Patch Dynamic Modeling Approach to Pattern and Process in an Annual Grassland. <i>Ecological Monographs</i> , 1994, 64, 447-464.	5.4	191
85	Multiple Scales and the Maintenance of Biodiversity. <i>Ecosystems</i> , 2000, 3, 498-506.	3.4	190
86	Epidemiological and evolutionary considerations of SARS-CoV-2 vaccine dosing regimes. <i>Science</i> , 2021, 372, 363-370.	12.6	185
87	From Management to Stewardship: Viewing Forests As Complex Adaptive Systems in an Uncertain World. <i>Conservation Letters</i> , 2015, 8, 368-377.	5.7	183
88	Pattern Generation in Space and Aspect. <i>SIAM Review</i> , 1985, 27, 45-67.	9.5	181
89	The Spread of a Reinvading Species: Range Expansion in the California Sea Otter. <i>American Naturalist</i> , 1988, 131, 526-543.	2.1	178
90	Self-organization and the Emergence of Complexity in Ecological Systems. <i>BioScience</i> , 2005, 55, 1075.	4.9	171

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91	Dispersal in patchy environments: The effects of temporal and spatial structure. <i>Theoretical Population Biology</i> , 1991, 39, 63-99.	1.1	170
92	Fractal reorientation clocks: Linking animal behavior to statistical patterns of search. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19072-19077.	7.1	170
93	Persistent colonization and the spread of antibiotic resistance in nosocomial pathogens: Resistance is a regional problem. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 3709-3714.	7.1	169
94	Regime shifts in a social-ecological system. <i>Theoretical Ecology</i> , 2013, 6, 359-372.	1.0	169
95	Spatial Models for Species-Area Curves. <i>Journal of Theoretical Biology</i> , 1996, 179, 119-127.	1.7	161
96	Analysis of an age-structured fishery model. <i>Journal of Mathematical Biology</i> , 1980, 9, 245-274.	1.9	157
97	Terrestrial models and global change: challenges for the future. <i>Global Change Biology</i> , 1998, 4, 581-590.	9.5	151
98	River networks as ecological corridors: A complex systems perspective for integrating hydrologic, geomorphologic, and ecologic dynamics. <i>Water Resources Research</i> , 2009, 45, .	4.2	148
99	Fishery Discards Impact on Seabird Movement Patterns at Regional Scales. <i>Current Biology</i> , 2010, 20, 215-222.	3.9	147
100	What is blue growth? The semantics of "Sustainable Development" of marine environments. <i>Marine Policy</i> , 2018, 87, 177-179.	3.2	147
101	Phytoplankton stoichiometry. <i>Ecological Research</i> , 2008, 23, 479-485.	1.5	143
102	Climate Change and the Integrity of Science. <i>Science</i> , 2010, 328, 689-690.	12.6	143
103	The SIRC model and influenza A. <i>Mathematical Biosciences</i> , 2006, 200, 152-169.	1.9	141
104	A note on difference-delay equations. <i>Theoretical Population Biology</i> , 1976, 9, 178-187.	1.1	136
105	Aggregation in Model Ecosystems II. Approximate Aggregation. <i>Mathematical Medicine and Biology</i> , 1989, 6, 1-23.	1.2	135
106	GLOBAL FOOD SUPPLY: Food Production, Population Growth, and the Environment. , 1998, 281, 1291-1292.		135
107	Pathogen-Driven Outbreaks in Forest Defoliators Revisited: Building Models from Experimental Data. <i>American Naturalist</i> , 2000, 156, 105-120.	2.1	135
108	Economic Pathways to Ecological Sustainability. <i>BioScience</i> , 2000, 50, 339.	4.9	134

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109	Limiting Similarity, Species Packing, and System Stability for Hierarchical Competitionâ€Colonization Models. <i>American Naturalist</i> , 1999, 153, 371-383.	2.1	130
110	The Multifaceted Aspects of Ecosystem Integrity. <i>Ecology and Society</i> , 1997, 1, .	0.9	130
111	From individuals to epidemics. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1996, 351, 1615-1621.	4.0	129
112	The Evolution of Norms. <i>PLoS Biology</i> , 2005, 3, e194.	5.6	128
113	Role of economics in analyzing the environment and sustainable development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5233-5238.	7.1	128
114	The dynamics of group formation. <i>Mathematical Biosciences</i> , 1995, 128, 243-264.	1.9	127
115	Integrating Theoretical Climate and Fire Effects on Savanna and Forest Systems. <i>American Naturalist</i> , 2012, 180, 211-224.	2.1	126
116	Allelopathy of bacteria in a lattice population: Competition between colicin-sensitive and colicin-producing strains. <i>Evolutionary Ecology</i> , 1998, 12, 785-802.	1.2	125
117	The right incentives enable ocean sustainability successes and provide hope for the future. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14507-14514.	7.1	123
118	Periodicity in Epidemiological Models. <i>Biomathematics</i> , 1989, , 193-211.	0.7	122
119	On the role of long incubation periods in the dynamics of acquired immunodeficiency syndrome (AIDS). <i>Journal of Mathematical Biology</i> , 1989, 27, 373-398.	1.9	121
120	Using mathematical optimization models to design nature reserves. <i>Frontiers in Ecology and the Environment</i> , 2004, 2, 98-105.	4.0	121
121	From The Cover: Strategic interactions in multi-institutional epidemics of antibiotic resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 3153-3158.	7.1	117
122	Facultative versus Obligate Nitrogen Fixation Strategies and Their Ecosystem Consequences. <i>American Naturalist</i> , 2009, 174, 465-477.	2.1	116
123	FROM INDIVIDUALS TO POPULATION DENSITIES: SEARCHING FOR THE INTERMEDIATE SCALE OF NONTRIVIAL DETERMINISM. <i>Ecology</i> , 1999, 80, 2225-2236.	3.2	115
124	MARINE RESERVE DESIGN AND THE EVOLUTION OF SIZE AT MATURATION IN HARVESTED FISH. , 2005, 15, 882-901.		112
125	Climate policies under wealth inequality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2212-2216.	7.1	112
126	Species diversity and ecosystem response to carbon dioxide fertilization: conclusions from a temperate forest model. <i>Global Change Biology</i> , 1995, 1, 373-381.	9.5	111



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127	Cutting through the complexity of cell collectives. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20122770.	2.6	111
128	<i>Perspectives in Ecological Theory.</i> , 1989, , .		111
129	The survival of the conformist: Social pressure and renewable resource management. <i>Journal of Theoretical Biology</i> , 2012, 299, 152-161.	1.7	108
130	Dynamic model of flexible phytoplankton nutrient uptake. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20633-20638.	7.1	107
131	New perspectives in ecotoxicology. <i>Environmental Management</i> , 1984, 8, 375-442.	2.7	104
132	Coping With Uncertainty: A Call for a New Science-Policy Forum. <i>Ambio</i> , 2003, 32, 330-335.	5.5	103
133	Dynamic response of grass cover to rainfall variability: implications for the function and persistence of savanna ecosystems. <i>Advances in Water Resources</i> , 2005, 28, 291-302.	3.8	101
134	Differential neutralization efficiency of hemagglutinin epitopes, antibody interference, and the design of influenza vaccines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8701-8706.	7.1	100
135	The effect of global travel on the spread of SARS. <i>Mathematical Biosciences and Engineering</i> , 2006, 3, 205-218.	1.9	100
136	Long-distance biological transport processes through the air: can nature's complexity be unfolded in silico?. <i>Diversity and Distributions</i> , 2005, 11, 131-137.	4.1	98
137	A Mathematical Model of Coevolving Populations. <i>American Naturalist</i> , 1977, 111, 657-675.	2.1	97
138	Eluding catastrophic shifts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1828-36.	7.1	97
139	The Dependence of Plant Root: Shoot Ratios on Internal Nitrogen Concentration. <i>Annals of Botany</i> , 1989, 64, 71-75.	2.9	96
140	Designing marine reserves for interacting species: Insights from theory. <i>Biological Conservation</i> , 2007, 137, 163-179.	4.1	96
141	HIDDEN EFFECTS OF CHRONIC TUBERCULOSIS IN AFRICAN BUFFALO. <i>Ecology</i> , 2005, 86, 2358-2364.	3.2	95
142	A neutral metapopulation model of biodiversity in river networks. <i>Journal of Theoretical Biology</i> , 2007, 245, 351-363.	1.7	94
143	Evolutionary tradeoffs can select against nitrogen fixation and thereby maintain nitrogen limitation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1573-1578.	7.1	94
144	Impact of ocean phytoplankton diversity on phosphate uptake. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17540-17545.	7.1	93

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145	Resource limitation in a competitive context determines complex plant responses to experimental resource additions. <i>Ecology</i> , 2013, 94, 2505-2517.	3.2	92
146	Size and scaling of predator-prey dynamics. <i>Ecology Letters</i> , 2006, 9, 548-557.	6.4	90
147	Learning to live in a global commons: socioeconomic challenges for a sustainable environment. <i>Ecological Research</i> , 2006, 21, 328-333.	1.5	89
148	Increased plant growth from nitrogen addition should conserve phosphorus in terrestrial ecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1971-1976.	7.1	89
149	Competition for Water and Light in Closed-Canopy Forests: A Tractable Model of Carbon Allocation with Implications for Carbon Sinks. <i>American Naturalist</i> , 2013, 181, 314-330.	2.1	87
150	Public goods in relation to competition, cooperation, and spite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10838-10845.	7.1	87
151	Merging Economics and Epidemiology to Improve the Prediction and Management of Infectious Disease. <i>EcoHealth</i> , 2014, 11, 464-475.	2.0	87
152	Dynamics of influenza A drift: the linear three-strain model. <i>Mathematical Biosciences</i> , 1999, 162, 33-51.	1.9	86
153	The Evolution of Dispersal in Reserve Networks. <i>American Naturalist</i> , 2007, 170, 59-78.	2.1	86
154	The timing of life history events. <i>Journal of Theoretical Biology</i> , 1995, 172, 33-42.	1.7	85
155	Human-environment interactions in population and ecosystem health. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14502-14506.	7.1	83
156	Intraspecific Variation and Species Coexistence. <i>American Naturalist</i> , 2007, 170, 807-818.	2.1	82
157	Decision versus compromise for animal groups in motion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 227-232.	7.1	82
158	A model of flexible uptake of two essential resources. <i>Journal of Theoretical Biology</i> , 2007, 246, 278-289.	1.7	81
159	Characterizing fisheries connectivity in marine social-ecological systems. <i>ICES Journal of Marine Science</i> , 2017, 74, 2087-2096.	2.5	81
160	Vaccine nationalism and the dynamics and control of SARS-CoV-2. <i>Science</i> , 2021, 373, eabj7364.	12.6	80
161	Evolution of cooperation on temporal networks. <i>Nature Communications</i> , 2020, 11, 2259.	12.8	78
162	Toward a Dynamic Metacommunity Approach to Marine Reserve Theory. <i>BioScience</i> , 2004, 54, 1003.	4.9	77

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163	A global movement toward an ecosystem approach to management of marine resources. <i>Marine Ecology - Progress Series</i> , 2005, 300, 275-279.	1.9	76
164	Cooperation among Microorganisms. <i>PLoS Biology</i> , 2006, 4, e299.	5.6	75
165	Economic growth, carrying capacity, and the environment. <i>Environment and Development Economics</i> , 1996, 1, 104-110.	1.5	74
166	Local Frequency Dependence and Global Coexistence. <i>Theoretical Population Biology</i> , 1999, 55, 270-282.	1.1	74
167	Traveling waves in a model of influenza A drift. <i>Journal of Theoretical Biology</i> , 2003, 222, 437-445.	1.7	74
168	Evolutionary escape from the prisoner's dilemma. <i>Journal of Theoretical Biology</i> , 2007, 245, 411-422.	1.7	74
169	Diversity in Current Ecological Thinking: Implications for Environmental Management. <i>Environmental Management</i> , 2009, 43, 17-27.	2.7	74
170	Self-organization of Front Patterns in Large Wildebeest Herds. <i>Journal of Theoretical Biology</i> , 1993, 165, 541-552.	1.7	73
171	The effects of population heterogeneity on disease invasion. <i>Mathematical Biosciences</i> , 1995, 128, 25-40.	1.9	73
172	Biome-scale nitrogen fixation strategies selected by climatic constraints on nitrogen cycle. <i>Nature Plants</i> , 2015, 1, 15182.	9.3	73
173	A collective navigation hypothesis for homeward migration in anadromous salmonids. <i>Fish and Fisheries</i> , 2016, 17, 525-542.	5.3	73
174	Slowing Down of Recovery as Generic Risk Marker for Acute Severity Transitions in Chronic Diseases. <i>Critical Care Medicine</i> , 2016, 44, 601-606.	0.9	73
175	Building Resilience and Adaptation to Manage Arctic Change. <i>Ambio</i> , 2006, 35, 198-202.	5.5	70
176	To breed or not to breed: a model of partial migration. <i>Oikos</i> , 2011, 120, 1871-1879.	2.7	70
177	Results on the dynamics for models for the sexual transmission of the human immunodeficiency virus. <i>Applied Mathematics Letters</i> , 1989, 2, 327-331.	2.7	69
178	Managing Ecosystem Resources. <i>Environmental Science &amp; Technology</i> , 2000, 34, 1401-1406.	10.0	69
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