

Robert D Holt

List of Publications by Citations

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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.

139
papers

21,648
citations

64
h-index

146
g-index

146
ext. papers

24,667
ext. citations

6
avg, IF

7.01
L-index

#	Paper	IF	Citations
139	Trophic downgrading of planet Earth. <i>Science</i> , 2011 , 333, 301-6	33.3	2365
138	Predation, apparent competition, and the structure of prey communities. <i>Theoretical Population Biology</i> , 1977 , 12, 197-29	1.2	1691
137	Habitat fragmentation and its lasting impact on Earth's ecosystems. <i>Science Advances</i> , 2015 , 1, e1500052	4.3	1586
136	TOWARD AN INTEGRATION OF LANDSCAPE AND FOOD WEB ECOLOGY: The Dynamics of Spatially Subsidized Food Webs. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 1997 , 28, 289-316		1576
135	Niche conservatism as an emerging principle in ecology and conservation biology. <i>Ecology Letters</i> , 2010 , 13, 1310-24	10	1081
134	A Survey and Overview of Habitat Fragmentation Experiments. <i>Conservation Biology</i> , 2000 , 14, 342-355	6	964
133	A Theoretical Framework for Intraguild Predation. <i>American Naturalist</i> , 1997 , 149, 745-764	3.7	792
132	Intraguild predation: The dynamics of complex trophic interactions. <i>Trends in Ecology and Evolution</i> , 1992 , 7, 151-4	10.9	692
131	Population dynamics in two-patch environments: Some anomalous consequences of an optimal habitat distribution. <i>Theoretical Population Biology</i> , 1985 , 28, 181-208	1.2	570
130	Bringing the Hutchinsonian niche into the 21st century: ecological and evolutionary perspectives. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106 Suppl 2, 19659-65	11.5	536
129	Meta-ecosystems: a theoretical framework for a spatial ecosystem ecology. <i>Ecology Letters</i> , 2003 , 6, 673-679	10	395
128	WHEN DOES EVOLUTION BY NATURAL SELECTION PREVENT EXTINCTION?. <i>Evolution; International Journal of Organic Evolution</i> , 1995 , 49, 201-207	3.8	378
127	Analysis of adaptation in heterogeneous landscapes: Implications for the evolution of fundamental niches. <i>Evolutionary Ecology</i> , 1992 , 6, 433-447	1.8	337
126	Allee effects, invasion pinning, and species' borders. <i>American Naturalist</i> , 2001 , 157, 203-16	3.7	326
125	Keeping the herds healthy and alert: implications of predator control for infectious disease. <i>Ecology Letters</i> , 2003 , 6, 797-802	10	311
124	How Does Immigration Influence Local Adaptation? A Reexamination of a Familiar Paradigm. <i>American Naturalist</i> , 1997 , 149, 563-572	3.7	307
123	RESOLVING ECOLOGICAL QUESTIONS THROUGH META-ANALYSIS: GOALS, METRICS, AND MODELS. <i>Ecology</i> , 1999 , 80, 1105-1117	4.6	293

122	The microevolutionary consequences of climate change. <i>Trends in Ecology and Evolution</i> , 1990 , 5, 311-5	10.9	293
121	The community context of species borders: ecological and evolutionary perspectives. <i>Oikos</i> , 2005 , 108, 28-46	4	277
120	TROPHIC RANK AND THE SPECIES-AREA RELATIONSHIP. <i>Ecology</i> , 1999 , 80, 1495-1504	4.6	258
119	How should environmental stress affect the population dynamics of disease?. <i>Ecology Letters</i> , 2003 , 6, 654-664	10	245
118	Is habitat fragmentation good for biodiversity?. <i>Biological Conservation</i> , 2018 , 226, 9-15	6.2	221
117	Theoretical models of species borders: single species approaches. <i>Oikos</i> , 2005 , 108, 18-27	4	220
116	Are predators good for your health? Evaluating evidence for top-down regulation of zoonotic disease reservoirs. <i>Frontiers in Ecology and the Environment</i> , 2004 , 2, 13-20	5.5	211
115	Island theory, matrix effects and species richness patterns in habitat fragments. <i>Ecology Letters</i> , 2002 , 5, 619-623	10	195
114	Parasite establishment in host communities. <i>Ecology Letters</i> , 2003 , 6, 837-842	10	186
113	A disease-mediated trophic cascade in the Serengeti and its implications for ecosystem C. <i>PLoS Biology</i> , 2009 , 7, e1000210	9.7	185
112	Habitat Fragmentation and Movements of Three Small Mammals (<i>Sigmodon</i> , <i>Microtus</i> , and <i>Peromyscus</i>). <i>Ecology</i> , 1995 , 76, 827-839	4.6	182
111	The effects of density dependence and immigration on local adaptation and niche evolution in a black-hole sink environment. <i>Theoretical Population Biology</i> , 1999 , 55, 283-96	1.2	173
110	Food webs in space: On the interplay of dynamic instability and spatial processes. <i>Ecological Research</i> , 2002 , 17, 261-273	1.9	169
109	The influence of interspecific interactions on species range expansion rates. <i>Ecography</i> , 2014 , 37, 1198-1209	10.9	154
108	APPARENT COMPETITION OR APPARENT MUTUALISM? SHARED PREDATION WHEN POPULATIONS CYCLE. <i>Ecology</i> , 1998 , 79, 201-212	4.6	152
107	Landscape scale, heterogeneity, and the viability of Serengeti grazers. <i>Ecology Letters</i> , 2005 , 8, 328-335	10	150
106	Niche differentiation in Mexican birds: using point occurrences to detect ecological innovation. <i>Ecology Letters</i> , 2003 , 6, 774-782	10	147
105	Indirect effects of parasites in invasions. <i>Functional Ecology</i> , 2012 , 26, 1262-1274	5.6	136

104	A comprehensive evaluation of predictive performance of 33 species distribution models at species and community levels. <i>Ecological Monographs</i> , 2019 , 89, e01370	9	135
103	Evolutionary consequences of asymmetric dispersal rates. <i>American Naturalist</i> , 2002 , 160, 333-47	3.7	135
102	On the evolutionary stability of sink populations. <i>Evolutionary Ecology</i> , 1997 , 11, 723-731	1.8	122
101	Alternative prey and the dynamics of intraguild predation: theoretical perspectives. <i>Ecology</i> , 2007 , 88, 2706-12	4.6	122
100	SECONDARY SUCCESSION IN AN EXPERIMENTALLY FRAGMENTED LANDSCAPE: COMMUNITY PATTERNS ACROSS SPACE AND TIME. <i>Ecology</i> , 2005 , 86, 1267-1279	4.6	121
99	Apparent Competition. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2017 , 48, 447-471	13.5	120
98	Where am I and why? Synthesizing range biology and the eco-evolutionary dynamics of dispersal. <i>Oikos</i> , 2014 , 123, 5-22	4	120
97	WHEN IS BIOLOGICAL CONTROL EVOLUTIONARILY STABLE (OR IS IT)?. <i>Ecology</i> , 1997 , 78, 1673-1683	4.6	120
96	Demographic constraints in evolution: Towards unifying the evolutionary theories of senescence and niche conservatism. <i>Evolutionary Ecology</i> , 1996 , 10, 1-11	1.8	119
95	Connecting models, data, and concepts to understand fragmentation's ecosystem-wide effects. <i>Ecography</i> , 2017 , 40, 1-8	6.5	112
94	Emergent neutrality. <i>Trends in Ecology and Evolution</i> , 2006 , 21, 531-3	10.9	112
93	The inflationary effects of environmental fluctuations in source-sink systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 14872-7	11.5	110
92	Vegetation Dynamics in an Experimentally Fragmented Landscape. <i>Ecology</i> , 1995 , 76, 1610-1624	4.6	106
91	Temporal autocorrelation can enhance the persistence and abundance of metapopulations comprised of coupled sinks. <i>American Naturalist</i> , 2005 , 166, 246-61	3.7	102
90	Trophic interactions and range limits: the diverse roles of predation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009 , 276, 1435-42	4.4	89
89	From Metapopulation Dynamics to Community Structure: Some Consequences of Spatial Heterogeneity 1997 , 149-164		88
88	Consumer Fronts, Global Change, and Runaway Collapse in Ecosystems. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2013 , 44, 503-538	13.5	87
87	Extinction filters mediate the global effects of habitat fragmentation on animals. <i>Science</i> , 2019 , 366, 1236-1239	33.3	86

86	Metapopulations and metacommunities: combining spatial and temporal perspectives in plant ecology. <i>Journal of Ecology</i> , 2012 , 100, 88-103	6	80
85	Predation can increase the prevalence of infectious disease. <i>American Naturalist</i> , 2007 , 169, 690-9	3.7	78
84	Genetics, adaptation, and invasion in harsh environments. <i>Evolutionary Applications</i> , 2010 , 3, 97-108	4.8	77
83	Temporal variation can facilitate niche evolution in harsh sink environments. <i>American Naturalist</i> , 2004 , 164, 187-200	3.7	71
82	Integrating Biogeography with Contemporary Niche Theory. <i>Trends in Ecology and Evolution</i> , 2017 , 32, 488-499	10.9	70
81	Eco-evolutionary dynamics in fragmented landscapes. <i>Ecography</i> , 2017 , 40, 9-25	6.5	70
80	Different evolutionary histories underlie congruent species richness gradients of birds and mammals. <i>Journal of Biogeography</i> , 2012 , 39, 825-841	4.1	69
79	FIRE GENERATES SPATIAL GRADIENTS IN HERBIVORY: AN EXAMPLE FROM A FLORIDA SANDHILL ECOSYSTEM. <i>Ecology</i> , 2005 , 86, 587-593	4.6	68
78	Refuge-mediated apparent competition in plant-consumer interactions. <i>Ecology Letters</i> , 2010 , 13, 11-20	10	67
77	Plant productivity and soil nitrogen as a function of grazing, migration and fire in an African savanna. <i>Journal of Ecology</i> , 2007 , 95, 115-128	6	65
76	Allee effects, immigration, and the evolution of species' niches. <i>American Naturalist</i> , 2004 , 163, 253-62	3.7	56
75	Impacts of environmental variability in open populations and communities: "inflation" in sink environments. <i>Theoretical Population Biology</i> , 2003 , 64, 315-30	1.2	47
74	Towards a cohesive, holistic view of top predation: a definition, synthesis and perspective. <i>Oikos</i> , 2014 , 123, 1234-1243	4	46
73	THE INTERACTION OF HABITAT FRAGMENTATION, PLANT, AND SMALL MAMMAL SUCCESSION IN AN OLD FIELD. <i>Ecological Monographs</i> , 2000 , 70, 383-400	9	46
72	Theoretical perspectives on the statics and dynamics of species' borders in patchy environments. <i>American Naturalist</i> , 2011 , 178 Suppl 1, S6-25	3.7	45
71	Ecosystem context and historical contingency in apex predator recoveries. <i>Science Advances</i> , 2016 , 2, e1501769	14.3	44
70	HABITAT SELECTION UNDER TEMPORAL HETEROGENEITY: EXORCIZING THE GHOST OF COMPETITION PAST. <i>Ecology</i> , 2000 , 81, 2622-2630	4.6	37
69	Effects of productivity, disturbance, and ecosystem size on food-chain length: insights from a metacommunity model of intraguild predation. <i>Ecological Research</i> , 2012 , 27, 481-493	1.9	36

68	The relation of density regulation to habitat specialization, evolution of a species' range, and the dynamics of biological invasions. <i>American Naturalist</i> , 2008 , 172, 233-47	3.7	34
67	Extending the principles of community ecology to address the epidemiology of host-pathogen systems 2006 , 6-27		30
66	Tropical forests can maintain hyperdiversity because of enemies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 581-586	11.5	28
65	Distributional Patterns in St. Croix Sphaerodactylus Lizards: The Taxon Cycle in Action. <i>Biotropica</i> , 1979 , 11, 189	2.3	26
64	Predation and the evolutionary dynamics of species ranges. <i>American Naturalist</i> , 2011 , 178, 488-500	3.7	25
63	Trophic Rank and the Species-Area Relationship. <i>Ecology</i> , 1999 , 80, 1495	4.6	24
62	Towards a unified framework for connectivity that disentangles movement and mortality in space and time. <i>Ecology Letters</i> , 2019 , 22, 1680-1689	10	23
61	The effects of immigration and environmental variability on the persistence of an inferior competitor. <i>Ecology Letters</i> , 2007 , 10, 574-85	10	23
60	Dynamical mechanism for coexistence of dispersing species without trade-offs in spatially extended ecological systems. <i>Physical Review E</i> , 2001 , 63, 051905	2.4	21
59	Effects of chronic pesticide stress on wildlife populations in complex landscapes: Processes at multiple scales. <i>Environmental Toxicology and Chemistry</i> , 1996 , 15, 420-426	3.8	21
58	Landscape structure and genetic architecture jointly impact rates of niche evolution. <i>Ecography</i> , 2014 , 37, 1218-1229	6.5	19
57	Responses to alternative rainfall regimes and antipoaching in a migratory system 2010 , 20, 381-97		19
56	Overcoming Allee effects through evolutionary, genetic, and demographic rescue. <i>Journal of Biological Dynamics</i> , 2015 , 9, 15-33	2.4	16
55	Allee effects, aggregation, and invasion success. <i>Theoretical Ecology</i> , 2013 , 6, 153-164	1.6	16
54	Direct plant-predator interactions as determinants of food chain dynamics. <i>Journal of Theoretical Biology</i> , 2013 , 339, 47-57	2.3	14
53	Interspecific interactions and range limits: contrasts among interaction types. <i>Theoretical Ecology</i> , 2017 , 10, 167-179	1.6	13
52	The influence of imperfect matching habitat choice on evolution in source-sink environments. <i>Evolutionary Ecology</i> , 2015 , 29, 887-904	1.8	11
51	Within-host pathogen dynamics: Some ecological and evolutionary consequences of transients, dispersal mode, and within-host spatial heterogeneity. <i>DIMACS Series in Discrete Mathematics and Theoretical Computer Science</i> , 2006 , 45-66		11

50	Relationship between conservation biology and ecology shown through machine reading of 32,000 articles. <i>Conservation Biology</i> , 2020 , 34, 721-732	6	11
49	Partitioning multiple facets of beta diversity in a tropical stream macroalgal metacommunity. <i>Journal of Biogeography</i> , 2020 , 47, 1765-1780	4.1	10
48	The prevalence and persistence of sigma virus, a biparentally transmitted parasite of. <i>Evolutionary Ecology Research</i> , 2011 , 13, 323-345		10
47	When the species-time-area relationship meets island biogeography: Diversity patterns of avian communities over time and space in a subtropical archipelago. <i>Journal of Biogeography</i> , 2018 , 45, 664-675	4.1	9
46	Threshold levels of generalist predation determine consumer response to resource pulses. <i>Oikos</i> , 2015 , 124, 1436-1443	4	9
45	Pulsed Immigration Events Can Facilitate Adaptation to Harsh Sink Environments. <i>American Naturalist</i> , 2019 , 194, 316-333	3.7	8
44	The role of pathogen shedding in linking within- and between-host pathogen dynamics. <i>Mathematical Biosciences</i> , 2015 , 270, 249-62	3.9	8
43	Position in the distributional range and sensitivity to forest fragmentation in birds: a case history from the Atlantic forest, Brazil. <i>Bird Conservation International</i> , 2010 , 20, 392-399	1.7	8
42	Making a virtue out of a necessity: hurricanes and the resilience of community organization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 2005-6	11.5	8
41	Emerging pathogens can suppress invaders and promote native species recovery. <i>Biological Invasions</i> , 2018 , 20, 5-8	2.7	8
40	The interplay of movement and spatiotemporal variation in transmission degrades pandemic control. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 30104-30106	11.5	6
39	Modeling [For Pathogens with Environmental Transmission: Animal Movements, Pathogen Populations, and Local Infectious Zones. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	5
38	Green roofs may cast shadows. <i>Israel Journal of Ecology and Evolution</i> , 2016 , 62, 15-22	0.8	5
37	A Community-Ecology Framework for Understanding Vector and Vector-Borne Disease Dynamics. <i>Israel Journal of Ecology and Evolution</i> , 2010 , 56, 251-262	0.8	5
36	Up against the edge: invasive species as testbeds for basic questions about evolution in heterogeneous environments. <i>Molecular Ecology</i> , 2009 , 18, 4347-8	5.7	5
35	Environmental fluctuations can promote evolutionary rescue in high-extinction-risk scenarios. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020 , 287, 20201144	4.4	5
34	Evolutionary Rescue in a Linearly Changing Environment: Limits on Predictability. <i>Bulletin of Mathematical Biology</i> , 2019 , 81, 4821-4839	2.1	5
33	Temporal variation may have diverse impacts on range limits.. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022 , 377, 20210016	5.8	5

32	The influence of herbivory and weather on the vital rates of two closely related cactus species. <i>Ecology and Evolution</i> , 2017 , 7, 6996-7009	2.8	4
31	Which Coexistence Mechanisms Should Biogeographers Quantify? A Reply to Alexander et al. <i>Trends in Ecology and Evolution</i> , 2018 , 33, 145-147	10.9	4
30	Backward bifurcation and oscillations in a nested immuno-eco-epidemiological model. <i>Journal of Biological Dynamics</i> , 2018 , 12, 51-88	2.4	4
29	Resources, mortality, and disease ecology: Importance of positive feedbacks between host growth rate and pathogen dynamics. <i>Israel Journal of Ecology and Evolution</i> , 2015 , 61, 37-49	0.8	4
28	Apparent Competition and Vector-Host Interactions. <i>Israel Journal of Ecology and Evolution</i> , 2010 , 56, 393-416	0.8	4
27	IJEE Soapbox: Prince Kropotkin meets the Hutchinsonian niche. <i>Israel Journal of Ecology and Evolution</i> , 2009 , 55, 1-10	0.8	4
26	The evolution of habitat construction with and without phenotypic plasticity. <i>Evolution; International Journal of Organic Evolution</i> , 2021 , 75, 1650-1664	3.8	4
25	Reply to Cannon and Ler dau: Maintenance of tropical forest tree diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 8106	11.5	3
24	Disease in Invasive Plant Populations. <i>Annual Review of Phytopathology</i> , 2020 , 58, 97-117	10.8	3
23	Evolutionary biology. Use it or lose it. <i>Nature</i> , 2000 , 407, 689-90	50.4	3
22	Dynamics of low and high pathogenic avian influenza in wild and domestic bird populations. <i>Journal of Biological Dynamics</i> , 2016 , 10, 104-39	2.4	2
21	Nonlinear thresholds in the effects of island area on functional diversity in woody plant communities. <i>Journal of Ecology</i> , 2021 , 109, 2177-2189	6	2
20	The species-area relationship in ant ecology. <i>Journal of Biogeography</i> , 2021 , 48, 1824-1841	4.1	2
19	Why aren't warning signals everywhere? On the prevalence of aposematism and mimicry in communities. <i>Biological Reviews</i> , 2021 , 96, 2446-2460	13.5	2
18	Toward ecoevolutionary dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	2
17	Long-term studies are needed to reveal the effects of pathogen accumulation on invaded plant communities. <i>Biological Invasions</i> , 2018 , 20, 11-12	2.7	2
16	Ilkka Hanski, The "Compleat Ecologist" - An Homage to His Contributions to the Spatial Dimension of Food Web Interactions. <i>Annales Zoologici Fennici</i> , 2017 , 54, 51-70	0.9	1
15	Inference Towards the Best Explanation: Reflections on the Issue of Climate Change. <i>Israel Journal of Ecology and Evolution</i> , 2015 , 61, 1-12	0.8	1

14	III.14. Evolution of the Ecological Niche 2013 , 288-297		1
13	Unstable predator-prey dynamics permits the coexistence of generalist and specialist predators, and the maintenance of partial preferences. <i>Israel Journal of Ecology and Evolution</i> , 2013 , 59, 27-36	0.8	1
12	IJEE Soapbox: Ecology and evolution as professions, And as liberal arts. <i>Israel Journal of Ecology and Evolution</i> , 2009 , 55, 307-313	0.8	1
11	Are predators good for your health? Evaluating evidence for top-down regulation of zoonotic disease reservoirs 2004 , 2, 13		1
10	Disturbance-induced emigration: an overlooked mechanism that reduces metapopulation extinction risk. <i>Ecology</i> , 2021 , 102, e03423	4.6	1
9	Do I build or do I move? Adaptation by habitat construction versus habitat choice. <i>Evolution; International Journal of Organic Evolution</i> , 2021 ,	3.8	1
8	A rodent herbivore reduces its predation risk through ecosystem engineering.. <i>Current Biology</i> , 2022 ,	6.3	1
7	The interplay of nested biotic interactions and the abiotic environment regulates populations of a hypersymbiont. <i>Journal of Animal Ecology</i> , 2019 , 88, 1998-2010	4.7	0
6	Looks can be deceiving: ecologically similar exotics have different impacts on a native competitor. <i>Oecologia</i> , 2019 , 190, 927-940	2.9	0
5	Environmental fluctuations dampen the effects of clonal reproduction on evolutionary rescue. <i>Journal of Evolutionary Biology</i> , 2021 , 34, 710-722	2.3	0
4	A meditation on life, death, and meaning. <i>Israel Journal of Ecology and Evolution</i> , 2016 , 62, 113-117	0.8	
3	IJEE Soapbox: Cooperation, Competition, and the Social Organization of the Scientific Enterprise. <i>Israel Journal of Ecology and Evolution</i> , 2010 , 56, 1-7	0.8	
2	IJEE Soapbox: A Never-Ending Struggle: Becoming a Better Ecologist and Evolutionary Biologist. <i>Israel Journal of Ecology and Evolution</i> , 2010 , 57, 279-288	0.8	
1	Plants in Trophic Webs 556-567		