Robert D Holt

List of Publications by Year in Descending Order

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	Temporal variation may have diverse impacts on range limits.. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2022**, 377, 20210016	5.8	5
138	A rodent herbivore reduces its predation risk through ecosystem engineering.. *Current Biology*, **2022**,	6.3	1
137	Nonlinear thresholds in the effects of island area on functional diversity in woody plant communities. *Journal of Ecology*, **2021**, 109, 2177-2189	6	2
136	The evolution of habitat construction with and without phenotypic plasticity. *Evolution; International Journal of Organic Evolution*, **2021**, 75, 1650-1664	3.8	4
135	Disturbance-induced emigration: an overlooked mechanism that reduces metapopulation extinction risk. *Ecology*, **2021**, 102, e03423	4.6	1
134	The species□rea relationship in ant ecology. *Journal of Biogeography*, **2021**, 48, 1824-1841	4.1	2
133	Why aren't warning signals everywhere? On the prevalence of aposematism and mimicry in communities. *Biological Reviews*, **2021**, 96, 2446-2460	13.5	2
132	Toward ecoevolutionary dynamics. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	2
131	Environmental fluctuations dampen the effects of clonal reproduction on evolutionary rescue. *Journal of Evolutionary Biology*, **2021**, 34, 710-722	2.3	0
130	Do I build or do I move? Adaptation by habitat construction versus habitat choice. *Evolution; International Journal of Organic Evolution*, **2021**,	3.8	1
129	Disease in Invasive Plant Populations. *Annual Review of Phytopathology*, **2020**, 58, 97-117	10.8	3
128	Partitioning multiple facets of beta diversity in a tropical stream macroalgal metacommunity. *Journal of Biogeography*, **2020**, 47, 1765-1780	4.1	10
127	The interplay of movement and spatiotemporal variation in transmission degrades pandemic control. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 30104-30106	11.5	6
126	Relationship between conservation biology and ecology shown through machine reading of 32,000 articles. *Conservation Biology*, **2020**, 34, 721-732	6	11
125	Environmental fluctuations can promote evolutionary rescue in high-extinction-risk scenarios. *Proceedings of the Royal Society B: Biological Sciences*, **2020**, 287, 20201144	4.4	5
124	Pulsed Immigration Events Can Facilitate Adaptation to Harsh Sink Environments. *American Naturalist*, **2019**, 194, 316-333	3.7	8
123	A comprehensive evaluation of predictive performance of 33 species distribution models at species and community levels. *Ecological Monographs*, **2019**, 89, e01370	9	135

122	Modeling for Pathogens with Environmental Transmission: Animal Movements, Pathogen Populations, and Local Infectious Zones. *International Journal of Environmental Research and Public Health*, **2019**, 16,	4.6	5
121	Reply to Cannon and Lerdau: Maintenance of tropical forest tree diversity. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 8106	11.5	3
120	The interplay of nested biotic interactions and the abiotic environment regulates populations of a hypersymbiont. *Journal of Animal Ecology*, **2019**, 88, 1998-2010	4.7	0
119	Looks can be deceiving: ecologically similar exotics have different impacts on a native competitor. *Oecologia*, **2019**, 190, 927-940	2.9	0
118	Towards a unified framework for connectivity that disentangles movement and mortality in space and time. *Ecology Letters*, **2019**, 22, 1680-1689	10	23
117	Extinction filters mediate the global effects of habitat fragmentation on animals. *Science*, **2019**, 366, 1236-1239	33.3	86
116	Tropical forests can maintain hyperdiversity because of enemies. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 581-586	11.5	28
115	Evolutionary Rescue in a Linearly Changing Environment: Limits on Predictability. *Bulletin of Mathematical Biology*, **2019**, 81, 4821-4839	2.1	5
114	Which Coexistence Mechanisms Should Biogeographers Quantify? A Reply to Alexander et al. *Trends in Ecology and Evolution*, **2018**, 33, 145-147	10.9	4
113	Backward bifurcation and oscillations in a nested immuno-eco-epidemiological model. *Journal of Biological Dynamics*, **2018**, 12, 51-88	2.4	4
112	When the species time area relationship meets island biogeography: Diversity patterns of avian communities over time and space in a subtropical archipelago. *Journal of Biogeography*, **2018**, 45, 664-675	4.1	9
111	Is habitat fragmentation good for biodiversity?. *Biological Conservation*, **2018**, 226, 9-15	6.2	221
110	Long-term studies are needed to reveal the effects of pathogen accumulation on invaded plant communities. *Biological Invasions*, **2018**, 20, 11-12	2.7	2
109	Emerging pathogens can suppress invaders and promote native species recovery. *Biological Invasions*, **2018**, 20, 5-8	2.7	8
108	Integrating Biogeography with Contemporary Niche Theory. *Trends in Ecology and Evolution*, **2017**, 32, 488-499	10.9	70
107	Ilkka Hanski, The Compleat Ecologist An Homage to His Contributions to the Spatial Dimension of Food Web Interactions. *Annales Zoologici Fennici*, **2017**, 54, 51-70	0.9	1
106	Interspecific interactions and range limits: contrasts among interaction types. *Theoretical Ecology*, **2017**, 10, 167-179	1.6	13
105	Connecting models, data, and concepts to understand fragmentation's ecosystem-wide effects. *Ecography*, **2017**, 40, 1-8	6.5	112

104	The influence of herbivory and weather on the vital rates of two closely related cactus species. *Ecology and Evolution*, **2017**, 7, 6996-7009	2.8	4
103	Apparent Competition. *Annual Review of Ecology, Evolution, and Systematics*, **2017**, 48, 447-471	13.5	120
102	Eco-evolutionary dynamics in fragmented landscapes. *Ecography*, **2017**, 40, 9-25	6.5	70
101	A meditation on life, death, and meaning. *Israel Journal of Ecology and Evolution*, **2016**, 62, 113-117	0.8	
100	Green roofs may cast shadows. *Israel Journal of Ecology and Evolution*, **2016**, 62, 15-22	0.8	5
99	Dynamics of low and high pathogenic avian influenza in wild and domestic bird populations. *Journal of Biological Dynamics*, **2016**, 10, 104-39	2.4	2
98	Ecosystem context and historical contingency in apex predator recoveries. *Science Advances*, **2016**, 2, e1501769	14.3	44
97	Habitat fragmentation and its lasting impact on Earth's ecosystems. *Science Advances*, **2015**, 1, e1500052	14.3	1586
96	Overcoming Allee effects through evolutionary, genetic, and demographic rescue. *Journal of Biological Dynamics*, **2015**, 9, 15-33	2.4	16
95	The role of pathogen shedding in linking within- and between-host pathogen dynamics. *Mathematical Biosciences*, **2015**, 270, 249-62	3.9	8
94	Resources, mortality, and disease ecology: Importance of positive feedbacks between host growth rate and pathogen dynamics. *Israel Journal of Ecology and Evolution*, **2015**, 61, 37-49	0.8	4
93	Inference Towards the Best Explanation: Reflections on the Issue of Climate Change. *Israel Journal of Ecology and Evolution*, **2015**, 61, 1-12	0.8	1
92	The influence of imperfect matching habitat choice on evolution in source-sink environments. *Evolutionary Ecology*, **2015**, 29, 887-904	1.8	11
91	Threshold levels of generalist predation determine consumer response to resource pulses. *Oikos*, **2015**, 124, 1436-1443	4	9
90	The influence of interspecific interactions on species range expansion rates. *Ecography*, **2014**, 37, 1198-1209	6.9	154
89	Towards a cohesive, holistic view of top predation: a definition, synthesis and perspective. *Oikos*, **2014**, 123, 1234-1243	4	46
88	Landscape structure and genetic architecture jointly impact rates of niche evolution. *Ecography*, **2014**, 37, 1218-1229	6.5	19
87	Where am I and why? Synthesizing range biology and the eco-evolutionary dynamics of dispersal. *Oikos*, **2014**, 123, 5-22	4	120

86	Consumer Fronts, Global Change, and Runaway Collapse in Ecosystems. *Annual Review of Ecology, Evolution, and Systematics*, **2013**, 44, 503-538	13.5	87
85	III.14. Evolution of the Ecological Niche **2013**, 288-297		1
84	Allee effects, aggregation, and invasion success. *Theoretical Ecology*, **2013**, 6, 153-164	1.6	16
83	Direct plant-predator interactions as determinants of food chain dynamics. *Journal of Theoretical Biology*, **2013**, 339, 47-57	2.3	14
82	Unstable predator-prey dynamics permits the coexistence of generalist and specialist predators, and the maintenance of partial preferences. *Israel Journal of Ecology and Evolution*, **2013**, 59, 27-36	0.8	1
81	Different evolutionary histories underlie congruent species richness gradients of birds and mammals. *Journal of Biogeography*, **2012**, 39, 825-841	4.1	69
80	Indirect effects of parasites in invasions. *Functional Ecology*, **2012**, 26, 1262-1274	5.6	136
79	Effects of productivity, disturbance, and ecosystem size on food-chain length: insights from a metacommunity model of intraguild predation. *Ecological Research*, **2012**, 27, 481-493	1.9	36
78	Metapopulations and metacommunities: combining spatial and temporal perspectives in plant ecology. *Journal of Ecology*, **2012**, 100, 88-103	6	80
77	Theoretical perspectives on the statics and dynamics of species' borders in patchy environments. *American Naturalist*, **2011**, 178 Suppl 1, S6-25	3.7	45
76	Trophic downgrading of planet Earth. *Science*, **2011**, 333, 301-6	33.3	2365
75	Predation and the evolutionary dynamics of species ranges. *American Naturalist*, **2011**, 178, 488-500	3.7	25
74	The prevalence and persistence of sigma virus, a biparentally transmitted parasite of. *Evolutionary Ecology Research*, **2011**, 13, 323-345		10
73	Refuge-mediated apparent competition in plant-consumer interactions. *Ecology Letters*, **2010**, 13, 11-20	10	67
72	Niche conservatism as an emerging principle in ecology and conservation biology. *Ecology Letters*, **2010**, 13, 1310-24	10	1081
71	A Community-Ecology Framework for Understanding Vector and Vector-Borne Disease Dynamics. *Israel Journal of Ecology and Evolution*, **2010**, 56, 251-262	0.8	5
70	IJEE Soapbox: Cooperation, Competition, and the Social Organization of the Scientific Enterprise. *Israel Journal of Ecology and Evolution*, **2010**, 56, 1-7	0.8	
69	IJEE Soapbox: A Never-Ending Struggle: Becoming a Better Ecologist and Evolutionary Biologist. *Israel Journal of Ecology and Evolution*, **2010**, 57, 279-288	0.8	

68	Position in the distributional range and sensitivity to forest fragmentation in birds: a case history from the Atlantic forest, Brazil. *Bird Conservation International*, **2010**, 20, 392-399	1.7	8
67	Apparent Competition and Vector-Host Interactions. *Israel Journal of Ecology and Evolution*, **2010**, 56, 393-416	0.8	4
66	Responses to alternative rainfall regimes and antipoaching in a migratory system **2010**, 20, 381-97		19
65	Genetics, adaptation, and invasion in harsh environments. *Evolutionary Applications*, **2010**, 3, 97-108	4.8	77
64	IJEE Soapbox: Ecology and evolution as professions, And as liberal arts. *Israel Journal of Ecology and Evolution*, **2009**, 55, 307-313	0.8	1
63	IJEE Soapbox: Prince Kropotkin meets the Hutchinsonian niche. *Israel Journal of Ecology and Evolution*, **2009**, 55, 1-10	0.8	4
62	A disease-mediated trophic cascade in the Serengeti and its implications for ecosystem C. *PLoS Biology*, **2009**, 7, e1000210	9.7	185
61	Up against the edge: invasive species as testbeds for basic questions about evolution in heterogeneous environments. *Molecular Ecology*, **2009**, 18, 4347-8	5.7	5
60	Trophic interactions and range limits: the diverse roles of predation. *Proceedings of the Royal Society B: Biological Sciences*, **2009**, 276, 1435-42	4.4	89
59	Bringing the Hutchinsonian niche into the 21st century: ecological and evolutionary perspectives. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106 Suppl 2, 19659-65	11.5	536
58	The relation of density regulation to habitat specialization, evolution of a species' range, and the dynamics of biological invasions. *American Naturalist*, **2008**, 172, 233-47	3.7	34
57	Predation can increase the prevalence of infectious disease. *American Naturalist*, **2007**, 169, 690-9	3.7	78
56	The effects of immigration and environmental variability on the persistence of an inferior competitor. *Ecology Letters*, **2007**, 10, 574-85	10	23
55	Plant productivity and soil nitrogen as a function of grazing, migration and fire in an African savanna. *Journal of Ecology*, **2007**, 95, 115-128	6	65
54	Alternative prey and the dynamics of intraguild predation: theoretical perspectives. *Ecology*, **2007**, 88, 2706-12	4.6	122
53	Making a virtue out of a necessity: hurricanes and the resilience of community organization. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 2005-6	11.5	8
52	Emergent neutrality. *Trends in Ecology and Evolution*, **2006**, 21, 531-3	10.9	112
51	Within-host pathogen dynamics: Some ecological and evolutionary consequences of transients, dispersal mode, and within-host spatial heterogeneity. *DIMACS Series in Discrete Mathematics and Theoretical Computer Science*, **2006**, 45-66		11

50	Extending the principles of community ecology to address the epidemiology of host-pathogen systems **2006**, 6-27		30
49	Temporal autocorrelation can enhance the persistence and abundance of metapopulations comprised of coupled sinks. *American Naturalist*, **2005**, 166, 246-61	3.7	102
48	SECONDARY SUCCESSION IN AN EXPERIMENTALLY FRAGMENTED LANDSCAPE: COMMUNITY PATTERNS ACROSS SPACE AND TIME. *Ecology*, **2005**, 86, 1267-1279	4.6	121
47	Landscape scale, heterogeneity, and the viability of Serengeti grazers. *Ecology Letters*, **2005**, 8, 328-335	10	150
46	Theoretical models of species borders: single species approaches. *Oikos*, **2005**, 108, 18-27	4	220
45	The community context of species borders: ecological and evolutionary perspectives. *Oikos*, **2005**, 108, 28-46	4	277
44	FIRE GENERATES SPATIAL GRADIENTS IN HERBIVORY: AN EXAMPLE FROM A FLORIDA SANDHILL ECOSYSTEM. *Ecology*, **2005**, 86, 587-593	4.6	68
43	Temporal variation can facilitate niche evolution in harsh sink environments. *American Naturalist*, **2004**, 164, 187-200	3.7	71
42	Are predators good for your health? Evaluating evidence for top-down regulation of zoonotic disease reservoirs. *Frontiers in Ecology and the Environment*, **2004**, 2, 13-20	5.5	211
41	Allee effects, immigration, and the evolution of species' niches. *American Naturalist*, **2004**, 163, 253-62	3.7	56
40	Are predators good for your health? Evaluating evidence for top-down regulation of zoonotic disease reservoirs **2004**, 2, 13		1
39	How should environmental stress affect the population dynamics of disease?. *Ecology Letters*, **2003**, 6, 654-664	10	245
38	Meta-ecosystems: a theoretical framework for a spatial ecosystem ecology. *Ecology Letters*, **2003**, 6, 673-679	10	395
37	Keeping the herds healthy and alert: implications of predator control for infectious disease. *Ecology Letters*, **2003**, 6, 797-802	10	311
36	Parasite establishment in host communities. *Ecology Letters*, **2003**, 6, 837-842	10	186
35	Niche differentiation in Mexican birds: using point occurrences to detect ecological innovation. *Ecology Letters*, **2003**, 6, 774-782	10	147
34	Impacts of environmental variability in open populations and communities: "inflation" in sink environments. *Theoretical Population Biology*, **2003**, 64, 315-30	1.2	47
33	Island theory, matrix effects and species richness patterns in habitat fragments. *Ecology Letters*, **2002**, 5, 619-623	10	195

32	Food webs in space: On the interplay of dynamic instability and spatial processes. *Ecological Research*, **2002**, 17, 261-273	1.9	169
31	Evolutionary consequences of asymmetric dispersal rates. *American Naturalist*, **2002**, 160, 333-47	3.7	135
30	The inflationary effects of environmental fluctuations in source-sink systems. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 14872-7	11.5	110
29	Dynamical mechanism for coexistence of dispersing species without trade-offs in spatially extended ecological systems. *Physical Review E*, **2001**, 63, 051905	2.4	21
28	Allee effects, invasion pinning, and species' borders. *American Naturalist*, **2001**, 157, 203-16	3.7	326
27	A Survey and Overview of Habitat Fragmentation Experiments. *Conservation Biology*, **2000**, 14, 342-355	6	964
26	Evolutionary biology. Use it or lose it. *Nature*, **2000**, 407, 689-90	50.4	3
25	THE INTERACTION OF HABITAT FRAGMENTATION, PLANT, AND SMALL MAMMAL SUCCESSION IN AN OLD FIELD. *Ecological Monographs*, **2000**, 70, 383-400	9	46
24	HABITAT SELECTION UNDER TEMPORAL HETEROGENEITY: EXORCIZING THE GHOST OF COMPETITION PAST. *Ecology*, **2000**, 81, 2622-2630	4.6	37
23	RESOLVING ECOLOGICAL QUESTIONS THROUGH META-ANALYSIS: GOALS, METRICS, AND MODELS. *Ecology*, **1999**, 80, 1105-1117	4.6	293
22	Trophic Rank and the Species-Area Relationship. *Ecology*, **1999**, 80, 1495	4.6	24
21	TROPHIC RANK AND THE SPECIES AREA RELATIONSHIP. *Ecology*, **1999**, 80, 1495-1504	4.6	258
20	The effects of density dependence and immigration on local adaptation and niche evolution in a black-hole sink environment. *Theoretical Population Biology*, **1999**, 55, 283-96	1.2	173
19	APPARENT COMPETITION OR APPARENT MUTUALISM? SHARED PREDATION WHEN POPULATIONS CYCLE. *Ecology*, **1998**, 79, 201-212	4.6	152
18	From Metapopulation Dynamics to Community Structure: Some Consequences of Spatial Heterogeneity **1997**, 149-164		88
17	How Does Immigration Influence Local Adaptation? A Reexamination of a Familiar Paradigm. *American Naturalist*, **1997**, 149, 563-572	3.7	307
16	A Theoretical Framework for Intraguild Predation. *American Naturalist*, **1997**, 149, 745-764	3.7	792
15	TOWARD AN INTEGRATION OF LANDSCAPE AND FOOD WEB ECOLOGY:The Dynamics of Spatially Subsidized Food Webs. *Annual Review of Ecology, Evolution, and Systematics*, **1997**, 28, 289-316		1576

14	WHEN IS BIOLOGICAL CONTROL EVOLUTIONARILY STABLE (OR IS IT)?. *Ecology*, **1997**, 78, 1673-1683	4.6	120
13	On the evolutionary stability of sink populations. *Evolutionary Ecology*, **1997**, 11, 723-731	1.8	122
12	Effects of chronic pesticide stress on wildlife populations in complex landscapes: Processes at multiple scales. *Environmental Toxicology and Chemistry*, **1996**, 15, 420-426	3.8	21
11	Demographic constraints in evolution: Towards unifying the evolutionary theories of senescence and niche conservatism. *Evolutionary Ecology*, **1996**, 10, 1-11	1.8	119
10	Vegetation Dynamics in an Experimentally Fragmented Landscape. *Ecology*, **1995**, 76, 1610-1624	4.6	106
9	Habitat Fragmentation and Movements of Three Small Mammals (Sigmodon, Microtus, and Peromyscus). *Ecology*, **1995**, 76, 827-839	4.6	182
8	WHEN DOES EVOLUTION BY NATURAL SELECTION PREVENT EXTINCTION?. *Evolution; International Journal of Organic Evolution*, **1995**, 49, 201-207	3.8	378
7	Intraguild predation: The dynamics of complex trophic interactions. *Trends in Ecology and Evolution*, **1992**, 7, 151-4	10.9	692
6	Analysis of adaptation in heterogeneous landscapes: Implications for the evolution of fundamental niches. *Evolutionary Ecology*, **1992**, 6, 433-447	1.8	337
5	The microevolutionary consequences of climate change. *Trends in Ecology and Evolution*, **1990**, 5, 311-5	10.9	293
4	Population dynamics in two-patch environments: Some anomalous consequences of an optimal habitat distribution. *Theoretical Population Biology*, **1985**, 28, 181-208	1.2	570
3	Distributional Patterns in St. Croix Sphaerodactylus Lizards: The Taxon Cycle in Action. *Biotropica*, **1979**, 11, 189	2.3	26
2	Predation, apparent competition, and the structure of prey communities. *Theoretical Population Biology*, **1977**, 12, 197-29	1.2	1691
1	Plants in Trophic Webs556-567		