Robert D Holt

List of Publications by Year
in descending order

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143 papers	27,780 citations	17429 63 h-index	10441 139 g-index
146 all docs	146 docs citations	146 times ranked	24843 citing authors

#	Article	IF	Citations
1	Do I build or do I move? Adaptation by habitat construction versus habitat choice[*]. Evolution; International Journal of Organic Evolution, 2022, 76, 414-428.	1.1	2
2	Invasive grass litter suppresses a native grass species and promotes disease. Ecosphere, 2022, 13, .	1.0	4
3	Temporal variation may have diverse impacts on range limits. Philosophical Transactions of the Royal Society B: Biological Sciences, 2022, 377, 20210016.	1.8	7
4	A rodent herbivore reduces its predation risk through ecosystem engineering. Current Biology, 2022, 32, 1869-1874.e4.	1.8	5
5	Toward ecoevolutionary dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	8
6	Environmental fluctuations dampen the effects of clonal reproduction on evolutionary rescue. Journal of Evolutionary Biology, 2021, 34, 710-722.	0.8	2
7	Nonlinear thresholds in the effects of island area on functional diversity in woody plant communities. Journal of Ecology, 2021, 109, 2177-2189.	1.9	12
8	The evolution of habitat construction with and without phenotypic plasticity*. Evolution; International Journal of Organic Evolution, 2021, 75, 1650-1664.	1.1	7
9	Disturbanceâ€induced emigration: an overlooked mechanism that reduces metapopulation extinction risk. Ecology, 2021, 102, e03423.	1.5	3
10	The speciesâ€“area relationship in ant ecology. Journal of Biogeography, 2021, 48, 1824-1841.	1.4	4
11	Why aren't warning signals everywhere? On the prevalence of aposematism and mimicry in communities. Biological Reviews, 2021, 96, 2446-2460.	4.7	21
12	Metapopulation capacity determines food chain length in fragmented landscapes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	11
13	Relationship between conservation biology and ecology shown through machine reading of 32,000 articles. Conservation Biology, 2020, 34, 721-732.	2.4	19
14	Reflections on niches and numbers. Ecography, 2020, 43, 387-390.	2.1	20
15	Environmental fluctuations can promote evolutionary rescue in high-extinction-risk scenarios. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20201144.	1.2	11
16	Disease in Invasive Plant Populations. Annual Review of Phytopathology, 2020, 58, 97-117.	3.5	11
17	Partitioning multiple facets of beta diversity in a tropical stream macroalgal metacommunity. Journal of Biogeography, 2020, 47, 1765-1780.	1.4	27
18	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.	3.3	27

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19	The interplay of nested biotic interactions and the abiotic environment regulates populations of a hypersymbiont. Journal of Animal Ecology, 2019, 88, 1998-2010.	1.3	5
20	Looks can be deceiving: ecologically similar exotics have different impacts on a native competitor. Oecologia, 2019, 190, 927-940.	0.9	2
21	Towards a unified framework for connectivity that disentangles movement and mortality in space and time. Ecology Letters, 2019, 22, 1680-1689.	3.0	48
22	Pulsed Immigration Events Can Facilitate Adaptation to Harsh Sink Environments. American Naturalist, 2019, 194, 316-333.	1.0	13
23	A comprehensive evaluation of predictive performance of 33 species distribution models at species and community levels. Ecological Monographs, 2019, 89, e01370.	2.4	290
24	Modeling R0 for Pathogens with Environmental Transmission: Animal Movements, Pathogen Populations, and Local Infectious Zones. International Journal of Environmental Research and Public Health, 2019, 16, 954.	1.2	20
25	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, 8106-8106.	3.3	4
26	Extinction filters mediate the global effects of habitat fragmentation on animals. Science, 2019, 366, 1236-1239.	6.0	164
27	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.	3.3	50
28	Evolutionary Rescue in a Linearly Changing Environment: Limits on Predictability. Bulletin of Mathematical Biology, 2019, 81, 4821-4839.	0.9	9
29	Which Coexistence Mechanisms Should Biogeographers Quantify? A Reply to Alexander et al.. Trends in Ecology and Evolution, 2018, 33, 145-147.	4.2	7
30	Backward bifurcation and oscillations in a nested immuno-eco-epidemiological model. Journal of Biological Dynamics, 2018, 12, 51-88.	0.8	13
31	When the speciesâ€“timeâ€“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.	1.4	11
32	Long-term studies are needed to reveal the effects of pathogen accumulation on invaded plant communities. Biological Invasions, 2018, 20, 11-12.	1.2	2
33	Emerging pathogens can suppress invaders and promote native species recovery. Biological Invasions, 2018, 20, 5-8.	1.2	18
34	Is habitat fragmentation good for biodiversity?. Biological Conservation, 2018, 226, 9-15.	1.9	430
35	Integrating Biogeography with Contemporary Niche Theory. Trends in Ecology and Evolution, 2017, 32, 488-499.	4.2	102
36	Ilkka Hanski, The â€œCompleat Ecologistâ€: An Homage to His Contributions to the Spatial Dimension of Food Web Interactions. Annales Zoologici Fennici, 2017, 54, 51-70.	0.2	2

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37	Interspecific interactions and range limits: contrasts among interaction types. Theoretical Ecology, 2017, 10, 167-179.	0.4	20
38	Connecting models, data, and concepts to understand fragmentation's ecosystemâ€wide effects. Ecography, 2017, 40, 1-8.	2.1	137
39	The influence of herbivory and weather on the vital rates of two closely related cactus species. Ecology and Evolution, 2017, 7, 6996-7009.	0.8	4
40	Apparent Competition. Annual Review of Ecology, Evolution, and Systematics, 2017, 48, 447-471.	3.8	205
41	Ecoâ€evolutionary dynamics in fragmented landscapes. Ecography, 2017, 40, 9-25.	2.1	101
42	Ecosystem context and historical contingency in apex predator recoveries. Science Advances, 2016, 2, e1501769.	4.7	61
43	A meditation on life, death, and meaning. Israel Journal of Ecology and Evolution, 2016, 62, 113-117.	0.2	1
44	Green roofs may cast shadows. Israel Journal of Ecology and Evolution, 2016, 62, 15-22.	0.2	8
45	Habitat fragmentation and biodiversity conservation: key findings and future challenges. Landscape Ecology, 2016, 31, 219-227.	1.9	336
46	Dynamics of low and high pathogenic avian influenza in wild and domestic bird populations. Journal of Biological Dynamics, 2016, 10, 104-139.	0.8	4
47	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.	0.2	10
48	Inference Towards the Best Explanation: Reflections on the Issue of Climate Change. Israel Journal of Ecology and Evolution, 2015, 61, 1-12.	0.2	1
49	The influence of imperfect matching habitat choice on evolution in sourceâ€“sink environments. Evolutionary Ecology, 2015, 29, 887-904.	0.5	12
50	Threshold levels of generalist predation determine consumer response to resource pulses. Oikos, 2015, 124, 1436-1443.	1.2	10
51	Habitat fragmentation and its lasting impact on Earthâ€™s ecosystems. Science Advances, 2015, 1, e1500052.	4.7	2,541
52	Overcoming Allee effects through evolutionary, genetic, and demographic rescue. Journal of Biological Dynamics, 2015, 9, 15-33.	0.8	22
53	The role of pathogen shedding in linking within- and between-host pathogen dynamics. Mathematical Biosciences, 2015, 270, 249-262.	0.9	13
54	Where am I and why? Synthesizing range biology and the ecoâ€evolutionary dynamics of dispersal. Oikos, 2014, 123, 5-22.	1.2	158

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55	The influence of interspecific interactions on species range expansion rates. Ecography, 2014, 37, 1198-1209.	2.1	196
56	Towards a cohesive, holistic view of top predation: a definition, synthesis and perspective. Oikos, 2014, 123, 1234-1243.	1.2	50
57	Landscape structure and genetic architecture jointly impact rates of niche evolution. Ecography, 2014, 37, 1218-1229.	2.1	28
58	Consumer Fronts, Global Change, and Runaway Collapse in Ecosystems. Annual Review of Ecology, Evolution, and Systematics, 2013, 44, 503-538.	3.8	97
59	Allee effects, aggregation, and invasion success. Theoretical Ecology, 2013, 6, 153-164.	0.4	22
60	Direct plantâ€“predator interactions as determinants of food chain dynamics. Journal of Theoretical Biology, 2013, 339, 47-57.	0.8	19
61	Unstable predatorâ€“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.	0.2	1
62	III.14. Evolution of the Ecological Niche. , 2013, , 288-297.		1
63	Indirect effects of parasites in invasions. Functional Ecology, 2012, 26, 1262-1274.	1.7	172
64	Effects of productivity, disturbance, and ecosystem size on foodâ€chain length: insights from a metacommunity model of intraguild predation. Ecological Research, 2012, 27, 481-493.	0.7	42
65	Metapopulations and metacommunities: combining spatial and temporal perspectives in plant ecology. Journal of Ecology, 2012, 100, 88-103.	1.9	100
66	Different evolutionary histories underlie congruent species richness gradients of birds and mammals. Journal of Biogeography, 2012, 39, 825-841.	1.4	84
67	Theoretical Perspectives on the Statics and Dynamics of Speciesâ€™ Borders in Patchy Environments. American Naturalist, 2011, 178, S6-S25.	1.0	57
68	Trophic Downgrading of Planet Earth. Science, 2011, 333, 301-306.	6.0	3,030
69	Predation and the Evolutionary Dynamics of Species Ranges. American Naturalist, 2011, 178, 488-500.	1.0	30
70	The prevalence and persistence of sigma virus, a biparentally transmitted parasite of. Evolutionary Ecology Research, 2011, 13, 323-345.	2.0	14
71	Responses to alternative rainfall regimes and antipoaching in a migratory system. Ecological Applications, 2010, 20, 381-397.	1.8	24
72	ORIGINAL ARTICLE: Genetics, adaptation, and invasion in harsh environments. Evolutionary Applications, 2010, 3, 97-108.	1.5	92

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73	Refugeâ€mediated apparent competition in plantâ€“consumer interactions. Ecology Letters, 2010, 13, 11-20.	3.0	78
74	Niche conservatism as an emerging principle in ecology and conservation biology. Ecology Letters, 2010, 13, 1310-1324.	3.0	1,387
75	A Community-Ecology Framework for Understanding Vector and Vector-Borne Disease Dynamics. Israel Journal of Ecology and Evolution, 2010, 56, 251-262.	0.2	8
76	IJEE Soapbox: Cooperation, Competition, and the Social Organization of the Scientific Enterprise. Israel Journal of Ecology and Evolution, 2010, 56, 1-7.	0.2	0
77	IJEE Soapbox: A Never-Ending Struggle: Becoming a Better Ecologist and Evolutionary Biologist. Israel Journal of Ecology and Evolution, 2010, 57, 279-288.	0.2	0
78	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.	0.7	14
79	Apparent Competition and Vector-Host Interactions. Israel Journal of Ecology and Evolution, 2010, 56, 393-416.	0.2	4
80	IJEE Soapbox: Ecology and evolution as professions, And as liberal arts. Israel Journal of Ecology and Evolution, 2009, 55, 307-313.	0.2	1
81	IJEE Soapbox: Prince Kropotkin meets the Hutchinsonian niche. Israel Journal of Ecology and Evolution, 2009, 55, 1-10.	0.2	5
82	A Disease-Mediated Trophic Cascade in the Serengeti and its Implications for Ecosystem C. PLoS Biology, 2009, 7, e1000210.	2.6	232
83	Up against the edge: invasive species as testbeds for basic questions about evolution in heterogeneous environments. Molecular Ecology, 2009, 18, 4347-4348.	2.0	7
84	Trophic interactions and range limits: the diverse roles of predation. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 1435-1442.	1.2	104
85	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, 19659-19665.	3.3	702
86	The Relation of Density Regulation to Habitat Specialization, Evolution of a Speciesâ€™ Range, and the Dynamics of Biological Invasions. American Naturalist, 2008, 172, 233-247.	1.0	36
87	ALTERNATIVE PREY AND THE DYNAMICS OF INTRAGUILD PREDATION: THEORETICAL PERSPECTIVES. Ecology, 2007, 88, 2706-2712.	1.5	149
88	Predation Can Increase the Prevalence of Infectious Disease. American Naturalist, 2007, 169, 690-699.	1.0	95
89	The effects of immigration and environmental variability on the persistence of an inferior competitor. Ecology Letters, 2007, 10, 574-585.	3.0	27
90	Plant productivity and soil nitrogen as a function of grazing, migration and fire in an African savanna. Journal of Ecology, 2007, 95, 115-128.	1.9	86

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91	Emergent neutrality. Trends in Ecology and Evolution, 2006, 21, 531-533.	4.2	134
92	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, 2005-2006.	3.3	11
93	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.	0.0	13
94	Extending the principles of community ecology to address the epidemiology of host-pathogen systems. , 2006, , 6-27.		43
95	Landscape scale, heterogeneity, and the viability of Serengeti grazers. Ecology Letters, 2005, 8, 328-335.	3.0	172
96	Theoretical models of speciesâ€™ borders: single species approaches. Oikos, 2005, 108, 18-27.	1.2	252
97	The community context of speciesâ€™ borders: ecological and evolutionary perspectives. Oikos, 2005, 108, 28-46.	1.2	323
98	FIRE GENERATES SPATIAL GRADIENTS IN HERBIVORY: AN EXAMPLE FROM A FLORIDA SANDHILL ECOSYSTEM. Ecology, 2005, 86, 587-593.	1.5	87
99	Temporal Autocorrelation Can Enhance the Persistence and Abundance of Metapopulations Comprised of Coupled Sinks. American Naturalist, 2005, 166, 246-261.	1.0	128
100	SECONDARY SUCCESSION IN AN EXPERIMENTALLY FRAGMENTED LANDSCAPE: COMMUNITY PATTERNS ACROSS SPACE AND TIME. Ecology, 2005, 86, 1267-1279.	1.5	142
101	Temporal Variation Can Facilitate Niche Evolution in Harsh Sink Environments. American Naturalist, 2004, 164, 187-200.	1.0	78
102	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.	1.9	253
103	Allee Effects, Immigration, and the Evolution of Speciesâ€™ Niches. American Naturalist, 2004, 163, 253-262.	1.0	62
104	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.	1.9	1
105	How should environmental stress affect the population dynamics of disease?. Ecology Letters, 2003, 6, 654-664.	3.0	290
106	Meta-ecosystems: a theoretical framework for a spatial ecosystem ecology. Ecology Letters, 2003, 6, 673-679.	3.0	527
107	Keeping the herds healthy and alert: implications of predator control for infectious disease. Ecology Letters, 2003, 6, 797-802.	3.0	357
108	Parasite establishment in host communities. Ecology Letters, 2003, 6, 837-842.	3.0	205

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109	Niche differentiation in Mexican birds: using point occurrences to detect ecological innovation. Ecology Letters, 2003, 6, 774-782.	3.0	165
110	Impacts of environmental variability in open populations and communities: â€œinflationâ€•in sink environments. Theoretical Population Biology, 2003, 64, 315-330.	0.5	51
111	Evolutionary Consequences of Asymmetric Dispersal Rates. American Naturalist, 2002, 160, 333-347.	1.0	156
112	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, 14872-14877.	3.3	128
113	Island theory, matrix effects and species richness patterns in habitat fragments. Ecology Letters, 2002, 5, 619-623.	3.0	208
114	Food webs in space: On the interplay of dynamic instability and spatial processes. Ecological Research, 2002, 17, 261-273.	0.7	206
115	Allee Effects, Invasion Pinning, and Speciesâ€™ Borders. American Naturalist, 2001, 157, 203-216.	1.0	384
116	Dynamical mechanism for coexistence of dispersing species without trade-offs in spatially extended ecological systems. Physical Review E, 2001, 63, 051905.	0.8	23
117	A Survey and Overview of Habitat Fragmentation Experiments. Conservation Biology, 2000, 14, 342-355.	2.4	1,100
118	Use it or lose it. Nature, 2000, 407, 689-690.	13.7	7
119	THE INTERACTION OF HABITAT FRAGMENTATION, PLANT, AND SMALL MAMMAL SUCCESSION IN AN OLD FIELD. Ecological Monographs, 2000, 70, 383-400.	2.4	60
120	HABITAT SELECTION UNDER TEMPORAL HETEROGENEITY: EXORCIZING THE GHOST OF COMPETITION PAST. Ecology, 2000, 81, 2622-2630.	1.5	40
121	RESOLVING ECOLOGICAL QUESTIONS THROUGH META-ANALYSIS: GOALS, METRICS, AND MODELS. Ecology, 1999, 80, 1105-1117.	1.5	341
122	Trophic Rank and the Species-Area Relationship. Ecology, 1999, 80, 1495.	1.5	34
123	TROPHIC RANK AND THE SPECIESâ€“AREA RELATIONSHIP. Ecology, 1999, 80, 1495-1504.	1.5	306
124	The Effects of Density Dependence and Immigration on Local Adaptation and Niche Evolution in a Black-Hole Sink Environment. Theoretical Population Biology, 1999, 55, 283-296.	0.5	195
125	APPARENT COMPETITION OR APPARENT MUTUALISM? SHARED PREDATION WHEN POPULATIONS CYCLE. Ecology, 1998, 79, 201-212.	1.5	176
126	From Metapopulation Dynamics to Community Structure. , 1997, , 149-164.		118

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127	How Does Immigration Influence Local Adaptation? A Reexamination of a Familiar Paradigm. American Naturalist, 1997, 149, 563-572.	1.0	351
128	A Theoretical Framework for Intraguild Predation. American Naturalist, 1997, 149, 745-764.	1.0	946
129	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.	6.7	1,922
130	WHEN IS BIOLOGICAL CONTROL EVOLUTIONARILY STABLE (OR IS IT)?. Ecology, 1997, 78, 1673-1683.	1.5	141
131	On the evolutionary stability of sink populations. Evolutionary Ecology, 1997, 11, 723-731.	0.5	152
132	Effects of chronic pesticide stress on wildlife populations in complex landscapes: Processes at multiple scales. Environmental Toxicology and Chemistry, 1996, 15, 420-426.	2.2	21
133	Demographic constraints in evolution: Towards unifying the evolutionary theories of senescence and niche conservatism. Evolutionary Ecology, 1996, 10, 1-11.	0.5	147
134	WHEN DOES EVOLUTION BY NATURAL SELECTION PREVENT EXTINCTION?. Evolution; International Journal of Organic Evolution, 1995, 49, 201-207.	1.1	579
135	Vegetation Dynamics in an Experimentally Fragmented Landscape. Ecology, 1995, 76, 1610-1624.	1.5	124
136	Habitat Fragmentation and Movements of Three Small Mammals (Sigmodon, Microtus, and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 T	1.5	234
137	Intraguild predation: The dynamics of complex trophic interactions. Trends in Ecology and Evolution, 1992, 7, 151-154.	4.2	795
138	Analysis of adaptation in heterogeneous landscapes: Implications for the evolution of fundamental niches. Evolutionary Ecology, 1992, 6, 433-447.	0.5	395
139	The microevolutionary consequences of climate change. Trends in Ecology and Evolution, 1990, 5, 311-315.	4.2	359
140	Population dynamics in two-patch environments: Some anomalous consequences of an optimal habitat distribution. Theoretical Population Biology, 1985, 28, 181-208.	0.5	676
141	Distributional Patterns in St. Croix Sphaerodactylus Lizards: The Taxon Cycle in Action. Biotropica, 1979, 11, 189.	0.8	36
142	Predation, apparent competition, and the structure of prey communities. Theoretical Population Biology, 1977, 12, 197-229.	0.5	2,068
143	Plants in Trophic Webs. , 0, , 556-567.		0