Benjamin M Bolker

List of Publications by Year
in descending order

84 papers	14,434 citations	108046 37 h-index	81351 76 g-index
97 all docs	97 docs citations	97 times ranked	22789 citing authors

#	Article	IF	Citations
1	Testing and Isolation Efficacy: Insights from a Simple Epidemic Model. Bulletin of Mathematical Biology, 2022, 84, 66.	0.9	5
2	The importance of the generation interval in investigating dynamics and control of new SARS-CoV-2 variants. Journal of the Royal Society Interface, 2022, 19, .	1.5	15
3	Consequences of nest site selection vary along a tidal gradient. Journal of Animal Ecology, 2021, 90, 528-541.	1.3	6
4	Age-dependence of healthcare interventions for COVID-19 in Ontario, Canada. BMC Public Health, 2021, 21, 706.	1.2	13
5	Transmission dynamics are crucial to COVID-19 vaccination policy. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	7
6	Modelling song popularity as a contagious process. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20210457.	1.0	7
7	Forward-looking serial intervals correctly link epidemic growth to reproduction numbers. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	54
8	Acceleration of plague outbreaks in the second pandemic. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27703-27711.	3.3	12
9	Reconciling early-outbreak estimates of the basic reproductive number and its uncertainty: framework and applications to the novel coronavirus (SARS-CoV-2) outbreak. Journal of the Royal Society Interface, 2020, 17, 20200144.	1.5	103
10	A Note on Observation Processes in Epidemic Models. Bulletin of Mathematical Biology, 2020, 82, 37.	0.9	10
11	A Curious Possible Prime Pattern. Mathematics Magazine, 2020, 93, 132-135.	0.1	0
12	Dynamics, Persistence, and Genetic Management of the Endangered Florida Panther Population. Wildlife Monographs, 2019, 203, 3-35.	2.0	43
13	Predicting West Nile virus transmission in North American bird communities using phylogenetic mixed effects models and eBird citizen science data. Parasites and Vectors, 2019, 12, 395.	1.0	22
14	Patterns of seasonal and pandemic influenza-associated health care and mortality in Ontario, Canada. BMC Public Health, 2019, 19, 1237.	1.2	2
15	I can see clearly now: Reinterpreting statistical significance. Methods in Ecology and Evolution, 2019, 10, 756-759.	2.2	107
16	Statistical modeling of patterns in annual reproductive rates. Ecology, 2019, 100, e02706.	1.5	52
17	Incorporating movement patterns to discern habitat selection: black bears as a case study. Wildlife Research, 2019, 46, 76.	0.7	10
18	Phenotypic traits and resource quality as factors affecting male reproductive success in a toadfish. Behavioral Ecology, 2018, 29, 496-507.	1.0	32

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19	Two approaches to forecast Ebola synthetic epidemics. Epidemics, 2018, 22, 36-42.	1.5	13
20	Interactive effects of tree size, crown exposure and logging on drought-induced mortality. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20180189.	1.8	14
21	Fitting mechanistic epidemic models to data: A comparison of simple Markov chain Monte Carlo approaches. Statistical Methods in Medical Research, 2018, 27, 1956-1967.	0.7	27
22	Human ectoparasite transmission of the plague during the Second Pandemic is only weakly supported by proposed mathematical models. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7892-E7893.	3.3	5
23	Can existing data on West Nile virus infection in birds and mosquitos explain strain replacement?. Ecosphere, 2017, 8, e01684.	1.0	6
24	Incorporating periodic variability in hidden Markov models for animal movement. Movement Ecology, 2017, 5, 1.	1.3	58
25	Effects of contact structure on the transient evolution of HIV virulence. PLoS Computational Biology, 2017, 13, e1005453.	1.5	7
26	Inverse estimation of integral projection model parameters using time series of populationâ€level data. Methods in Ecology and Evolution, 2016, 7, 147-156.	2.2	25
27	Using rarefaction to isolate the effects of patch size and sampling effort on beta diversity. Ecosphere, 2016, 7, e01612.	1.0	23
28	Multicopy gene family evolution on primate Y chromosomes. BMC Genomics, 2016, 17, 157.	1.2	19
29	The New Statistics with R: An Introduction for Biologists. By Andy Hector. Oxford and New York: Oxford University Press. $125.00 (hardcover); $49.95 (paper). xi + 199 p.; ill.; index. ISBN: 978-0-19-872905-1 (hc); 978-0-19-872906-8 (pb). 2015.. Quarterly Review of Biology, 2016, 91, 204-205.	0.0	0
30	Moving Beyond Too Little, Too Late: Managing Emerging Infectious Diseases in Wild Populations Requires International Policy and Partnerships. EcoHealth, 2015, 12, 404-407.	0.9	45
31	Hidden semiâ€Markov models reveal multiphasic movement of the endangered Florida panther. Journal of Animal Ecology, 2015, 84, 576-585.	1.3	33
32	Contextâ€dependent conservation responses to emerging wildlife diseases. Frontiers in Ecology and the Environment, 2015, 13, 195-202.	1.9	147
33	Evolutionary Stability of Minimal Mutation Rates in an Evo-epidemiological Model. Bulletin of Mathematical Biology, 2015, 77, 1985-2003.	0.9	1
34	Fates of trees damaged by logging in Amazonian Bolivia. Forest Ecology and Management, 2015, 357, 50-59.	1.4	33
35	Linear and generalized linear mixed models. , 2015, , 309-333.		126
36	A practical guide and power analysis for GLMMs: detecting among treatment variation in random effects. PeerJ, 2015, 3, e1226.	0.9	43

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37	Estimating Initial Epidemic Growth Rates. Bulletin of Mathematical Biology, 2014, 76, 245-260.	0.9	98
38	A general mathematical framework for the analysis of spatiotemporal point processes. Theoretical Ecology, 2014, 7, 101-113.	0.4	71
39	Comparing population level sexual selection in a species with alternative reproductive tactics. Behavioral Ecology, 2014, 25, 1524-1533.	1.0	13
40	Persistence of an invasive fish (Neogobius melanostomus) in a contaminated ecosystem. Biological Invasions, 2014, 16, 2449-2461.	1.2	25
41	Predator density and competition modify the benefits of group formation in a shoaling reef fish. Oikos, 2013, 122, 171-178.	1.2	34
42	Interspecific Dominance Via Vocal Interactions Mediates Altitudinal Zonation in Neotropical Singing Mice. American Naturalist, 2013, 182, E161-E173.	1.0	123
43	Gag (Mycteroperca microlepis) space-use correlations with landscape structure and environmental conditions. Journal of Experimental Marine Biology and Ecology, 2013, 443, 1-11.	0.7	8
44	Strategies for fitting nonlinear ecological models in <scp>R</scp>,<scp> AD M</scp>odel <scp>B</scp>uilder, and <scp>BUGS</scp>. Methods in Ecology and Evolution, 2013, 4, 501-512.	2.2	104
45	Predator density and timing of arrival affect reef fish community assembly. Ecology, 2013, 94, 1057-1068.	1.5	43
46	A Method for Detecting Positive Growth Autocorrelation without Marking Individuals. PLoS ONE, 2013, 8, e76389.	1.1	7
47	Model-based, response-surface approaches to quantifying indirect interactions. , 2012, , 186-204.		13
48	Experimental manipulation of seed shadows of an Afrotropical tree determines drivers of recruitment. Ecology, 2012, 93, 500-510.	1.5	11
49	Multiple defender effects: synergistic coral defense by mutualist crustaceans. Oecologia, 2012, 169, 1095-1103.	0.9	46
50	Fireâ€induced tree mortality in a neotropical forest: the roles of bark traits, tree size, wood density and fire behavior. Global Change Biology, 2012, 18, 630-641.	4.2	225
51	Predicting local population distributions around a central shelter based on a predation risk-growth trade-off. Ecological Modelling, 2011, 222, 1448-1455.	1.2	12
52	Predicting Predation through Prey Ontogeny Using Size-Dependent Functional Response Models. American Naturalist, 2011, 177, 752-766.	1.0	64
53	The prevalence and persistence of sigma virus, a biparentally transmitted parasite of. Evolutionary Ecology Research, 2011, 13, 323-345.	2.0	14
54	Effects of colonization asymmetries on metapopulation persistence. Theoretical Population Biology, 2010, 78, 225-238.	0.5	26

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55	Transient virulence of emerging pathogens. Journal of the Royal Society Interface, 2010, 7, 811-822.	1.5	72
56	Stem responses to damage: the evolutionary ecology of Quercus species in contrasting fire regimes. New Phytologist, 2009, 182, 261-271.	3.5	46
57	Generalized linear mixed models: a practical guide for ecology and evolution. Trends in Ecology and Evolution, 2009, 24, 127-135.	4.2	6,634
58	A crossâ€system synthesis of consumer and nutrient resource control on producer biomass. Ecology Letters, 2008, 11, 740-755.	3.0	334
59	Modelling longâ€distance seed dispersal in heterogeneous landscapes. Journal of Ecology, 2008, 96, 599-608.	1.9	112
60	Traitâ€mediated interactions: influence of prey size, density and experience. Journal of Animal Ecology, 2008, 77, 478-486.	1.3	56
61	Effects of stem anatomical and structural traits on responses to stem damage: an experimental study in the Bolivian Amazon. Canadian Journal of Forest Research, 2008, 38, 611-618.	0.8	72
62	On quantitative measures of indirect interactions. Ecology Letters, 2007, 10, 264-271.	3.0	47
63	Incorporating multiple mixed stocks in mixed stock analysis: â€˜many-to-manyâ€™ analyses. Molecular Ecology, 2007, 16, 685-695.	2.0	122
64	Size correction: comparing morphological traits among populations and environments. Oecologia, 2006, 148, 547-554.	0.9	179
65	Intraspecific application of the mid-domain effect model: spatial and temporal nest distributions of green turtles, Chelonia mydas, at Tortuguero, Costa Rica. Ecology Letters, 2005, 8, 918-924.	3.0	22
66	Parasite establishment and host extinction in model communities. Oikos, 2005, 111, 501-513.	1.2	29
67	COMPENSATORY LARVAL RESPONSES SHIFT TRADE-OFFS ASSOCIATED WITH PREDATOR-INDUCED HATCHING PLASTICITY. Ecology, 2005, 86, 1580-1591.	1.5	73
68	SPATIAL SIGNATURE OF ENVIRONMENTAL HETEROGENEITY, DISPERSAL, AND COMPETITION IN SUCCESSIONAL GRASSLANDS. Ecological Monographs, 2005, 75, 199-214.	2.4	112
69	COMBINING GENETIC AND ECOLOGICAL DATA TO ESTIMATE SEA TURTLE ORIGINS. , 2005, 15, 315-325.		44
70	Effects of Landscape Corridors on Seed Dispersal by Birds. Science, 2005, 309, 146-148.	6.0	287
71	Continuous-Space Models for Population Dynamics. , 2004, , 45-69.		10
72	Mechanisms of disease-induced extinction. Ecology Letters, 2004, 8, 117-126.	3.0	517

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73	Natal homing in juvenile loggerhead turtles (Caretta caretta). Molecular Ecology, 2004, 13, 3797-3808.	2.0	149
74	A smorgasbord of stochastic dynamics. Trends in Ecology and Evolution, 2004, 19, 11.	4.2	0
75	Spatial Dynamics in Model Plant Communities: What Do We Really Know?. American Naturalist, 2003, 162, 135-148.	1.0	195
76	Combining endogenous and exogenous spatial variability in analytical population models. Theoretical Population Biology, 2003, 64, 255-270.	0.5	83
77	CONNECTING THEORETICAL AND EMPIRICAL STUDIES OF TRAIT-MEDIATED INTERACTIONS. Ecology, 2003, 84, 1101-1114.	1.5	300
78	SEA TURTLE STOCK ESTIMATION USING GENETIC MARKERS: ACCOUNTING FOR SAMPLING ERROR OF RARE GENOTYPES. , 2003, 13, 763-775.		42
79	Canonical functions for dispersal-induced synchrony. Proceedings of the Royal Society B: Biological Sciences, 2000, 267, 1787-1794.	1.2	31
80	A Simple Model for Complex Dynamical Transitions in Epidemics. Science, 2000, 287, 667-670.	6.0	584
81	Analytic Models for the Patchy Spread of Plant Disease. Bulletin of Mathematical Biology, 1999, 61, 849-874.	0.9	55
82	Spatial Moment Equations for Plant Competition: Understanding Spatial Strategies and the Advantages of Short Dispersal. American Naturalist, 1999, 153, 575-602.	1.0	486
83	LINEAR ANALYSIS OF SOIL DECOMPOSITION: INSIGHTS FROM THE CENTURY MODEL. , 1998, 8, 425-439.		91
84	Using Moment Equations to Understand Stochastically Driven Spatial Pattern Formation in Ecological Systems. Theoretical Population Biology, 1997, 52, 179-197.	0.5	374