Benjamin M Bolker

List of Publications by Year
in descending order

84 papers	14,434 citations	94415 37 h-index	71682 76 g-index
97 all docs	97 docs citations	97 times ranked	20263 citing authors

#	Article	IF	Citations
1	Generalized linear mixed models: a practical guide for ecology and evolution. Trends in Ecology and Evolution, 2009, 24, 127-135.	8.7	6,634
2	A Simple Model for Complex Dynamical Transitions in Epidemics. Science, 2000, 287, 667-670.	12.6	584
3	Mechanisms of disease-induced extinction. Ecology Letters, 2004, 8, 117-126.	6.4	517
4	Spatial Moment Equations for Plant Competition: Understanding Spatial Strategies and the Advantages of Short Dispersal. American Naturalist, 1999, 153, 575-602.	2.1	486
5	Using Moment Equations to Understand Stochastically Driven Spatial Pattern Formation in Ecological Systems. Theoretical Population Biology, 1997, 52, 179-197.	1.1	374
6	A crossâ€system synthesis of consumer and nutrient resource control on producer biomass. Ecology Letters, 2008, 11, 740-755.	6.4	334
7	CONNECTING THEORETICAL AND EMPIRICAL STUDIES OF TRAIT-MEDIATED INTERACTIONS. Ecology, 2003, 84, 1101-1114.	3.2	300
8	Effects of Landscape Corridors on Seed Dispersal by Birds. Science, 2005, 309, 146-148.	12.6	287
9	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.	9.5	225
10	Spatial Dynamics in Model Plant Communities: What Do We Really Know?. American Naturalist, 2003, 162, 135-148.	2.1	195
11	Size correction: comparing morphological traits among populations and environments. Oecologia, 2006, 148, 547-554.	2.0	179
12	Natal homing in juvenile loggerhead turtles (Caretta caretta). Molecular Ecology, 2004, 13, 3797-3808.	3.9	149
13	Contextâ€dependent conservation responses to emerging wildlife diseases. Frontiers in Ecology and the Environment, 2015, 13, 195-202.	4.0	147
14	Linear and generalized linear mixed models. , 2015, , 309-333.		126
15	Interspecific Dominance Via Vocal Interactions Mediates Altitudinal Zonation in Neotropical Singing Mice. American Naturalist, 2013, 182, E161-E173.	2.1	123
16	Incorporating multiple mixed stocks in mixed stock analysis: â€˜many-to-manyâ€™ analyses. Molecular Ecology, 2007, 16, 685-695.	3.9	122
17	SPATIAL SIGNATURE OF ENVIRONMENTAL HETEROGENEITY, DISPERSAL, AND COMPETITION IN SUCCESSIONAL GRASSLANDS. Ecological Monographs, 2005, 75, 199-214.	5.4	112
18	Modelling longâ€distance seed dispersal in heterogeneous landscapes. Journal of Ecology, 2008, 96, 599-608.	4.0	112

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19	I can see clearly now: Reinterpreting statistical significance. Methods in Ecology and Evolution, 2019, 10, 756-759.	5.2	107
20	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.	5.2	104
21	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.	3.4	103
22	Estimating Initial Epidemic Growth Rates. Bulletin of Mathematical Biology, 2014, 76, 245-260.	1.9	98
23	LINEAR ANALYSIS OF SOIL DECOMPOSITION: INSIGHTS FROM THE CENTURY MODEL. , 1998, 8, 425-439.		91
24	Combining endogenous and exogenous spatial variability in analytical population models. Theoretical Population Biology, 2003, 64, 255-270.	1.1	83
25	COMPENSATORY LARVAL RESPONSES SHIFT TRADE-OFFS ASSOCIATED WITH PREDATOR-INDUCED HATCHING PLASTICITY. Ecology, 2005, 86, 1580-1591.	3.2	73
26	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.	1.7	72
27	Transient virulence of emerging pathogens. Journal of the Royal Society Interface, 2010, 7, 811-822.	3.4	72
28	A general mathematical framework for the analysis of spatiotemporal point processes. Theoretical Ecology, 2014, 7, 101-113.	1.0	71
29	Predicting Predation through Prey Ontogeny Using Size-Dependent Functional Response Models. American Naturalist, 2011, 177, 752-766.	2.1	64
30	Incorporating periodic variability in hidden Markov models for animal movement. Movement Ecology, 2017, 5, 1.	2.8	58
31	Traitâ€mediated interactions: influence of prey size, density and experience. Journal of Animal Ecology, 2008, 77, 478-486.	2.8	56
32	Analytic Models for the Patchy Spread of Plant Disease. Bulletin of Mathematical Biology, 1999, 61, 849-874.	1.9	55
33	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, .	7.1	54
34	Statistical modeling of patterns in annual reproductive rates. Ecology, 2019, 100, e02706.	3.2	52
35	On quantitative measures of indirect interactions. Ecology Letters, 2007, 10, 264-271.	6.4	47
36	Stem responses to damage: the evolutionary ecology of Quercus species in contrasting fire regimes. New Phytologist, 2009, 182, 261-271.	7.3	46

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37	Multiple defender effects: synergistic coral defense by mutualist crustaceans. Oecologia, 2012, 169, 1095-1103.	2.0	46
38	Moving Beyond Too Little, Too Late: Managing Emerging Infectious Diseases in Wild Populations Requires International Policy and Partnerships. EcoHealth, 2015, 12, 404-407.	2.0	45
39	COMBINING GENETIC AND ECOLOGICAL DATA TO ESTIMATE SEA TURTLE ORIGINS. , 2005, 15, 315-325.		44
40	Predator density and timing of arrival affect reef fish community assembly. Ecology, 2013, 94, 1057-1068.	3.2	43
41	Dynamics, Persistence, and Genetic Management of the Endangered Florida Panther Population. Wildlife Monographs, 2019, 203, 3-35.	3.0	43
42	A practical guide and power analysis for GLMMs: detecting among treatment variation in random effects. PeerJ, 2015, 3, e1226.	2.0	43
43	SEA TURTLE STOCK ESTIMATION USING GENETIC MARKERS: ACCOUNTING FOR SAMPLING ERROR OF RARE GENOTYPES. , 2003, 13, 763-775.		42
44	Predator density and competition modify the benefits of group formation in a shoaling reef fish. Oikos, 2013, 122, 171-178.	2.7	34
45	Hidden semiâ€Markov models reveal multiphasic movement of the endangered Florida panther. Journal of Animal Ecology, 2015, 84, 576-585.	2.8	33
46	Fates of trees damaged by logging in Amazonian Bolivia. Forest Ecology and Management, 2015, 357, 50-59.	3.2	33
47	Phenotypic traits and resource quality as factors affecting male reproductive success in a toadfish. Behavioral Ecology, 2018, 29, 496-507.	2.2	32
48	Canonical functions for dispersal-induced synchrony. Proceedings of the Royal Society B: Biological Sciences, 2000, 267, 1787-1794.	2.6	31
49	Parasite establishment and host extinction in model communities. Oikos, 2005, 111, 501-513.	2.7	29
50	Fitting mechanistic epidemic models to data: A comparison of simple Markov chain Monte Carlo approaches. Statistical Methods in Medical Research, 2018, 27, 1956-1967.	1.5	27
51	Effects of colonization asymmetries on metapopulation persistence. Theoretical Population Biology, 2010, 78, 225-238.	1.1	26
52	Persistence of an invasive fish (Neogobius melanostomus) in a contaminated ecosystem. Biological Invasions, 2014, 16, 2449-2461.	2.4	25
53	Inverse estimation of integral projection model parameters using time series of populationâ€level data. Methods in Ecology and Evolution, 2016, 7, 147-156.	5.2	25
54	Using rarefaction to isolate the effects of patch size and sampling effort on beta diversity. Ecosphere, 2016, 7, e01612.	2.2	23

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55	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.	6.4	22
56	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.	2.5	22
57	Multicopy gene family evolution on primate Y chromosomes. BMC Genomics, 2016, 17, 157.	2.8	19
58	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, .	3.4	15
59	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.	4.0	14
60	The prevalence and persistence of sigma virus, a biparentally transmitted parasite of. Evolutionary Ecology Research, 2011, 13, 323-345.	2.0	14
61	Model-based, response-surface approaches to quantifying indirect interactions. , 2012, , 186-204.		13
62	Comparing population level sexual selection in a species with alternative reproductive tactics. Behavioral Ecology, 2014, 25, 1524-1533.	2.2	13
63	Two approaches to forecast Ebola synthetic epidemics. Epidemics, 2018, 22, 36-42.	3.0	13
64	Age-dependence of healthcare interventions for COVID-19 in Ontario, Canada. BMC Public Health, 2021, 21, 706.	2.9	13
65	Predicting local population distributions around a central shelter based on a predation risk-growth trade-off. Ecological Modelling, 2011, 222, 1448-1455.	2.5	12
66	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.	7.1	12
67	Experimental manipulation of seed shadows of an Afrotropical tree determines drivers of recruitment. Ecology, 2012, 93, 500-510.	3.2	11
68	Continuous-Space Models for Population Dynamics. , 2004, , 45-69.		10
69	Incorporating movement patterns to discern habitat selection: black bears as a case study. Wildlife Research, 2019, 46, 76.	1.4	10
70	A Note on Observation Processes in Epidemic Models. Bulletin of Mathematical Biology, 2020, 82, 37.	1.9	10
71	Gag (Mycteroperca microlepis) space-use correlations with landscape structure and environmental conditions. Journal of Experimental Marine Biology and Ecology, 2013, 443, 1-11.	1.5	8
72	A Method for Detecting Positive Growth Autocorrelation without Marking Individuals. PLoS ONE, 2013, 8, e76389.	2.5	7

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73	Effects of contact structure on the transient evolution of HIV virulence. PLoS Computational Biology, 2017, 13, e1005453.	3.2	7
74	Transmission dynamics are crucial to COVID-19 vaccination policy. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	7
75	Modelling song popularity as a contagious process. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20210457.	2.1	7
76	Can existing data on West Nile virus infection in birds and mosquitos explain strain replacement?. Ecosphere, 2017, 8, e01684.	2.2	6
77	Consequences of nest site selection vary along a tidal gradient. Journal of Animal Ecology, 2021, 90, 528-541.	2.8	6
78	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.	7.1	5
79	Testing and Isolation Efficacy: Insights from a Simple Epidemic Model. Bulletin of Mathematical Biology, 2022, 84, 66.	1.9	5
80	Patterns of seasonal and pandemic influenza-associated health care and mortality in Ontario, Canada. BMC Public Health, 2019, 19, 1237.	2.9	2
81	Evolutionary Stability of Minimal Mutation Rates in an Evo-epidemiological Model. Bulletin of Mathematical Biology, 2015, 77, 1985-2003.	1.9	1
82	A smorgasbord of stochastic dynamics. Trends in Ecology and Evolution, 2004, 19, 11.	8.7	0
83	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.	0.1	0
84	A Curious Possible Prime Pattern. Mathematics Magazine, 2020, 93, 132-135.	0.1	0