

# Michael B Bonsall

## List of Publications by Citations

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201  
papers

5,069  
citations

36  
h-index

64  
g-index

293  
ext. papers

5,987  
ext. citations

4.9  
avg, IF

6.04  
L-index

#	Paper	IF	Citations
201	Zika virus in the Americas: Early epidemiological and genetic findings. <i>Science</i> , <b>2016</b> , 352, 345-349	33.3	703
200	Enemy-mediated apparent competition: empirical patterns and the evidence. <i>Oikos</i> , <b>2000</b> , 88, 380-394	4	196
199	Computer Game Play Reduces Intrusive Memories of Experimental Trauma via Reconsolidation-Update Mechanisms. <i>Psychological Science</i> , <b>2015</b> , 26, 1201-15	7.9	160
198	The evolutionary ecology of pre- and post-meiotic sperm senescence. <i>Trends in Ecology and Evolution</i> , <b>2008</b> , 23, 131-40	10.9	147
197	Linking patterns in phylogeny, traits, abiotic variables and space: a novel approach to linking environmental filtering and plant community assembly. <i>Journal of Ecology</i> , <b>2011</b> , 99, 165-175	6	122
196	Apparent Competition. <i>Annual Review of Ecology, Evolution, and Systematics</i> , <b>2017</b> , 48, 447-471	13.5	120
195	Life history trade-offs assemble ecological guilds. <i>Science</i> , <b>2004</b> , 306, 111-4	33.3	112
194	Seasonal migration to high latitudes results in major reproductive benefits in an insect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 14924-9	11.5	99
193	The dynamics of cooperative bacterial virulence in the field. <i>Science</i> , <b>2012</b> , 337, 85-8	33.3	89
192	Machine learning and artificial intelligence to aid climate change research and preparedness. <i>Environmental Research Letters</i> , <b>2019</b> , 14, 124007	6.2	86
191	When to care for, abandon, or eat your offspring: the evolution of parental care and filial cannibalism. <i>American Naturalist</i> , <b>2007</b> , 170, 886-901	3.7	82
190	Correlations between phylogenetic and functional diversity: mathematical artefacts or true ecological and evolutionary processes?. <i>Journal of Vegetation Science</i> , <b>2013</b> , 24, 781-793	3.1	80
189	Environmental factors determining the epidemiology and population genetic structure of the <i>Bacillus cereus</i> group in the field. <i>PLoS Pathogens</i> , <b>2010</b> , 6, e1000905	7.6	76
188	Mood stability versus mood instability in bipolar disorder: a possible role for emotional mental imagery. <i>Behaviour Research and Therapy</i> , <b>2011</b> , 49, 707-13	5.2	73
187	Reducing intrusive traumatic memories after emergency caesarean section: A proof-of-principle randomized controlled study. <i>Behaviour Research and Therapy</i> , <b>2017</b> , 94, 36-47	5.2	72
186	Decomposition of trait diversity among the nodes of a phylogenetic tree. <i>Ecological Monographs</i> , <b>2010</b> , 80, 485-507	9	66
185	<i>Aedes aegypti</i> control: the concomitant role of competition, space and transgenic technologies. <i>Journal of Applied Ecology</i> , <b>2008</b> , 45, 1258-1265	5.8	65

184	Hierarchical partitioning of evolutionary and ecological patterns in the organization of phylogenetically-structured species assemblages: application to rockfish (genus: <i>Sebastes</i> ) in the Southern California Bight. <i>Ecology Letters</i> , <b>2009</b> , 12, 898-908	10	64
183	Life history and the evolution of parental care. <i>Evolution; International Journal of Organic Evolution</i> , <b>2010</b> , 64, 823-35	3.8	63
182	Demographic and environmental stochasticity in predator-prey metapopulation dynamics. <i>Journal of Animal Ecology</i> , <b>2004</b> , 73, 1043-1055	4.7	63
181	Metapopulation structures affect persistence of predator-prey interactions. <i>Journal of Animal Ecology</i> , <b>2002</b> , 71, 1075-1084	4.7	59
180	What are the benefits of parental care? The importance of parental effects on developmental rate. <i>Ecology and Evolution</i> , <b>2014</b> , 4, 2330-51	2.8	57
179	A model framework to estimate impact and cost of genetics-based sterile insect methods for dengue vector control. <i>PLoS ONE</i> , <b>2011</b> , 6, e25384	3.7	56
178	Population dynamics of apparent competition in a host-parasitoid assemblage. <i>Journal of Animal Ecology</i> , <b>1998</b> , 67, 918-29	4.7	56
177	A mid-gut microbiota is not required for the pathogenicity of <i>Bacillus thuringiensis</i> to diamondback moth larvae. <i>Environmental Microbiology</i> , <b>2009</b> , 11, 2556-63	5.2	53
176	Island biogeography: patterns of marine shallow-water organisms in the Atlantic Ocean. <i>Journal of Biogeography</i> , <b>2015</b> , 42, 1871-1882	4.1	46
175	Antagonistic competition moderates virulence in <i>Bacillus thuringiensis</i> . <i>Ecology Letters</i> , <b>2011</b> , 14, 765-7210	4.0	44
174	Longevity and ageing: appraising the evolutionary consequences of growing old. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2006</b> , 361, 119-35	5.8	44
173	Modeling resistance to genetic control of insects. <i>Journal of Theoretical Biology</i> , <b>2011</b> , 270, 42-55	2.3	43
172	Evolutionary analysis of life span, competition, and adaptive radiation, motivated by the Pacific rockfishes ( <i>Sebastes</i> ). <i>Evolution; International Journal of Organic Evolution</i> , <b>2007</b> , 61, 1208-24	3.8	41
171	THE PHANTOM MIDGE AND A COMPARISON OF METAPOPOPULATION STRUCTURES. <i>Ecology</i> , <b>2002</b> , 83, 116-128	4.6	41
170	Species interactions regulate the collapse of biodiversity and ecosystem function in tropical forest fragments. <i>Ecology</i> , <b>2015</b> , 96, 2692-704	4.6	40
169	How and When to End the COVID-19 Lockdown: An Optimization Approach. <i>Frontiers in Public Health</i> , <b>2020</b> , 8, 262	6	40
168	Interplay of population genetics and dynamics in the genetic control of mosquitoes. <i>Journal of the Royal Society Interface</i> , <b>2014</b> , 11, 20131071	4.1	39
167	Combining pest control and resistance management: synergy of engineered insects with Bt crops. <i>Journal of Economic Entomology</i> , <b>2009</b> , 102, 717-32	2.2	39

166	The effects of metapopulation structure on indirect interactions in host-parasitoid assemblages. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2000</b> , 267, 2207-12	4.4	39
165	Cooperation and the evolutionary ecology of bacterial virulence: the <i>Bacillus cereus</i> group as a novel study system. <i>BioEssays</i> , <b>2013</b> , 35, 706-16	4.1	36
164	ECOLOGICAL TRADE-OFFS, RESOURCE PARTITIONING, AND COEXISTENCE IN A HOST-PARASITOID ASSEMBLAGE. <i>Ecology</i> , <b>2002</b> , 83, 925-934	4.6	36
163	The interactive effects of parasites, disturbance, and productivity on experimental adaptive radiations. <i>Evolution; International Journal of Organic Evolution</i> , <b>2008</b> , 62, 467-77	3.8	35
162	Life-history trade-offs and ecological dynamics in the evolution of longevity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2004</b> , 271, 1143-50	4.4	35
161	Genetics-based methods for agricultural insect pest management. <i>Agricultural and Forest Entomology</i> , <b>2018</b> , 20, 131-140	1.9	34
160	Bipolar disorder dynamics: affective instabilities, relaxation oscillations and noise. <i>Journal of the Royal Society Interface</i> , <b>2015</b> , 12,	4.1	34
159	Transcriptional regulation of <i>Culex pipiens</i> mosquitoes by <i>Wolbachia</i> influences cytoplasmic incompatibility. <i>PLoS Pathogens</i> , <b>2013</b> , 9, e1003647	7.6	33
158	Phenotypic evolutionary models in stem cell biology: replacement, quiescence, and variability. <i>PLoS ONE</i> , <b>2008</b> , 3, e1591	3.7	32
157	Protists have divergent effects on bacterial diversity along a productivity gradient. <i>Biology Letters</i> , <b>2010</b> , 6, 639-42	3.6	31
156	Competition and reproduction in mixed infections of pathogenic and non-pathogenic <i>Bacillus</i> spp. <i>Journal of Invertebrate Pathology</i> , <b>2007</b> , 96, 151-5	2.6	31
155	Bottom-up and top-down effects in a tritrophic system: the population dynamics of <i>Plutella xylostella</i> (L.)/ <i>Diabrotica plutellae</i> (Kurdjumov) on different host plants. <i>Ecological Entomology</i> , <b>2004</b> , 29, 285-293	2.1	31
154	The impact of diseases and pathogens on insect population dynamics. <i>Physiological Entomology</i> , <b>2004</b> , 29, 223-236	1.9	29
153	Climate change impacts on ecosystem functioning: evidence from an <i>Empetrum</i> heathland. <i>New Phytologist</i> , <b>2012</b> , 193, 150-164	9.8	28
152	Abrupt environmental changes drive shifts in tree-grass interaction outcomes. <i>Journal of Ecology</i> , <b>2011</b> , 99, 1063-1070	6	28
151	Invasion and dynamics of covert infection strategies in structured insect-pathogen populations. <i>Journal of Animal Ecology</i> , <b>2005</b> , 74, 464-474	4.7	28
150	Trophic interaction modifications: an empirical and theoretical framework. <i>Ecology Letters</i> , <b>2017</b> , 20, 1219-1230	10	27
149	Theoretical foundations of parental care <b>2012</b> , 20-39		27

148	Impact of bacterial mutation rate on coevolutionary dynamics between bacteria and phages. <i>Evolution; International Journal of Organic Evolution</i> , <b>2010</b> , 64, 2980-7	3.8	26
147	Ecological consequences of ingestion of <i>Bacillus cereus</i> on <i>Bacillus thuringiensis</i> infections and on the gut flora of a lepidopteran host. <i>Journal of Invertebrate Pathology</i> , <b>2008</b> , 99, 103-11	2.6	26
146	Life history traits, but not phylogeny, drive compositional patterns in a butterfly metacommunity. <i>Ecology</i> , <b>2014</b> , 95, 3304-3313	4.6	25
145	The origin of parental care in relation to male and female life history. <i>Ecology and Evolution</i> , <b>2013</b> , 3, 779-91	2.8	25
144	From phylogenetic to functional originality: Guide through indices and new developments. <i>Ecological Indicators</i> , <b>2017</b> , 82, 196-205	5.8	25
143	Indirect effects and spatial scaling affect the persistence of multispecies metapopulations. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2005</b> , 272, 1465-71	4.4	25
142	Sex differences in life history drive evolutionary transitions among maternal, paternal, and bi-parental care. <i>Ecology and Evolution</i> , <b>2013</b> , 3, 792-806	2.8	24
141	The shape of things to come: using models with physiological structure to predict mortality trajectories. <i>Theoretical Population Biology</i> , <b>2004</b> , 65, 353-9	1.2	23
140	Modelling knowlesi malaria transmission in humans: vector preference and host competence. <i>Malaria Journal</i> , <b>2010</b> , 9, 329	3.6	21
139	Metapopulation extinction risk is increased by environmental stochasticity and assemblage complexity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2007</b> , 274, 87-96	4.4	21
138	Habitat shape, metapopulation processes and the dynamics of multispecies predator-prey interactions. <i>Journal of Animal Ecology</i> , <b>2006</b> , 75, 899-907	4.7	20
137	The effects of enrichment on the dynamics of apparent competitive interactions in stage-structured systems. <i>American Naturalist</i> , <b>2003</b> , 162, 780-95	3.7	20
136	Stability in ecosystem functioning across a climatic threshold and contrasting forest regimes. <i>PLoS ONE</i> , <b>2011</b> , 6, e16134	3.7	20
135	Predicting seasonal influenza epidemics using cross-hemisphere influenza surveillance data and local internet query data. <i>Scientific Reports</i> , <b>2019</b> , 9, 3262	4.9	19
134	The relative importance of biotic and abiotic processes for structuring plant communities through time. <i>Journal of Ecology</i> , <b>2015</b> , 103, 459-472	6	19
133	The evolution of parental care in stochastic environments. <i>Journal of Evolutionary Biology</i> , <b>2011</b> , 24, 645-655	4.5	19
132	Importance of space and competition in optimizing genetic control strategies. <i>Journal of Economic Entomology</i> , <b>2009</b> , 102, 50-7	2.2	19
131	The effects of colonization, extinction and competition on co-existence in metacommunities. <i>Journal of Animal Ecology</i> , <b>2009</b> , 78, 866-79	4.7	19

130	Evolution. Aging and sexual conflict. <i>Science</i> , <b>2007</b> , 316, 383-4	33.3	19
129	High prevalence of obligate coral-dwelling decapods on dead corals in the Chagos Archipelago, central Indian Ocean. <i>Coral Reefs</i> , <b>2015</b> , 34, 905-915	4.2	18
128	Individual and population-level impacts of an emerging poxvirus disease in a wild population of great tits. <i>PLoS ONE</i> , <b>2012</b> , 7, e48545	3.7	18
127	Understanding Ecological Concepts: The Role of Laboratory Systems. <i>Advances in Ecological Research</i> , <b>2005</b> , 1-36	4.6	18
126	The evolutionary and coevolutionary consequences of defensive microbes for host-parasite interactions. <i>BMC Evolutionary Biology</i> , <b>2017</b> , 17, 190	3	17
125	The interplay of vaccination and vector control on small dengue networks. <i>Journal of Theoretical Biology</i> , <b>2016</b> , 407, 349-361	2.3	17
124	The Goldilocks Window of Personalized Chemotherapy: Getting the Immune Response Just Right. <i>Cancer Research</i> , <b>2019</b> , 79, 5302-5315	10.1	17
123	Density-dependent population dynamics and dispersal in heterogeneous metapopulations. <i>Journal of Animal Ecology</i> , <b>2011</b> , 80, 282-93	4.7	17
122	Proportions of different habitat types are critical to the fate of a resistance allele. <i>Theoretical Ecology</i> , <b>2008</b> , 1, 103-115	1.6	17
121	Coexistence of natural enemies in a multitrophic host-parasitoid system. <i>Ecological Entomology</i> , <b>2004</b> , 29, 639-647	2.1	17
120	Phylogenetic and functional evidence suggests that deep-ocean ecosystems are highly sensitive to environmental change and direct human disturbance. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2018</b> , 285,	4.4	16
119	Ecological effects on underdominance threshold drives for vector control. <i>Journal of Theoretical Biology</i> , <b>2018</b> , 456, 1-15	2.3	16
118	Generation cycles in Indonesian lady beetle populations may occur as a result of cannibalism. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2004</b> , 271 Suppl 6, S501-4	4.4	16
117	Biological diversity: distinct distributions can lead to the maximization of Rao's quadratic entropy. <i>Theoretical Population Biology</i> , <b>2009</b> , 75, 153-63	1.2	15
116	Hierarchical partitioning of evolutionary and ecological patterns in the organization of phylogenetically-structured species assemblages: application to rockfish (genus: <i>Sebastes</i> ) in the Southern California Bight. <i>Ecology Letters</i> , <b>2009</b> , 12, 898-908	10	15
115	Overcompensatory population dynamic responses to environmental stochasticity. <i>Journal of Animal Ecology</i> , <b>2008</b> , 77, 1296-305	4.7	15
114	Evolutionary and population dynamics of host-parasitoid interactions. <i>Researches on Population Ecology</i> , <b>1999</b> , 41, 81-91		15
113	Stem cell biology is population biology: differentiation of hematopoietic multipotent progenitors to common lymphoid and myeloid progenitors. <i>Theoretical Biology and Medical Modelling</i> , <b>2013</b> , 10, 5	2.3	14

112	Transgenic Control of Vectors: The Effects of Interspecific Interactions. <i>Israel Journal of Ecology and Evolution</i> , <b>2010</b> , 56, 353-370	0.8	14
111	Periodic local disturbance in host-parasitoid metapopulations: host suppression and parasitoid persistence. <i>Journal of Theoretical Biology</i> , <b>2004</b> , 227, 13-23	2.3	13
110	The role of age-structure on the persistence and the dynamics of insect herbivore-parasitoid interactions. <i>Oikos</i> , <b>2001</b> , 93, 59-68	4	13
109	Parasitism, biodiversity, and conservation <b>2005</b> , 124-139		13
108	Type of fitness cost influences the rate of evolution of resistance to transgenic Bt crops. <i>Journal of Applied Ecology</i> , <b>2016</b> , 53, 1391-1401	5.8	13
107	Plant controls on Late Quaternary whole ecosystem structure and function. <i>Ecology Letters</i> , <b>2018</b> , 21, 814-825	10	12
106	Plasmodium knowlesi invasion following spread by infected mosquitoes, macaques and humans. <i>Parasitology</i> , <b>2018</b> , 145, 101-110	2.7	12
105	A network approach to modeling population aggregation and genetic control of pest insects. <i>Theoretical Population Biology</i> , <b>2008</b> , 74, 324-31	1.2	12
104	Multiple infections alter density dependence in host-pathogen interactions. <i>Journal of Animal Ecology</i> , <b>2005</b> , 74, 937-945	4.7	12
103	Feedback control in planarian stem cell systems. <i>BMC Systems Biology</i> , <b>2016</b> , 10, 17	3.5	12
102	Clonal hematopoiesis of indeterminate potential and its impact on patient trajectories after stem cell transplantation. <i>PLoS Computational Biology</i> , <b>2019</b> , 15, e1006913	5	11
101	The value of existing regulatory frameworks for the environmental risk assessment of agricultural pest control using gene drives. <i>Environmental Science and Policy</i> , <b>2020</b> , 108, 19-36	6.2	11
100	Sleep and intrusive memories immediately after a traumatic event in emergency department patients. <i>Sleep</i> , <b>2020</b> , 43,	1.1	11
99	Stochastic dynamics of interacting haematopoietic stem cell niche lineages. <i>PLoS Computational Biology</i> , <b>2014</b> , 10, e1003794	5	11
98	A new technique for analysing interacting factors affecting biodiversity patterns: crossed-DPCoA. <i>PLoS ONE</i> , <b>2013</b> , 8, e54530	3.7	11
97	Effects of among-offspring relatedness on the origins and evolution of parental care and filial cannibalism. <i>Journal of Evolutionary Biology</i> , <b>2011</b> , 24, 1335-50	2.3	11
96	A Mathematical Model of Dynamics Within a Broiler Flock. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 1940	5.7	10
95	'Tales of Symphonia': extinction dynamics in response to past climate change in Madagascan rainforests. <i>Biology Letters</i> , <b>2009</b> , 5, 821-5	3.6	10

94	Moderation of pathogen-induced mortality: the role of density in <i>Bacillus thuringiensis</i> virulence. <i>Biology Letters</i> , <b>2009</b> , 5, 218-20	3.6	10
93	The evolution of anisogamy: the adaptive significance of damage, repair and mortality. <i>Journal of Theoretical Biology</i> , <b>2006</b> , 238, 198-210	2.3	10
92	Adequacy and sufficiency evaluation of existing EFSA guidelines for the molecular characterisation, environmental risk assessment and post-market environmental monitoring of genetically modified insects containing engineered gene drives. <i>EFSA Journal</i> , <b>2020</b> , 18, e06297	2.3	10
91	Approximating the Critical Domain Size of Integrodifference Equations. <i>Bulletin of Mathematical Biology</i> , <b>2016</b> , 78, 72-109	2.1	10
90	The effect of the definition of 'pandemic' on quantitative assessments of infectious disease outbreak risk. <i>Scientific Reports</i> , <b>2021</b> , 11, 2547	4.9	10
89	Altruism and the evolution of resource generalism and specialism. <i>Ecology and Evolution</i> , <b>2012</b> , 2, 515-242.8	2.8	9
88	The impact of strain diversity and mixed infections on the evolution of resistance to <i>Bacillus thuringiensis</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2013</b> , 280, 20131497	4.4	9
87	Density dependence, lifespan and the evolutionary dynamics of longevity. <i>Theoretical Population Biology</i> , <b>2009</b> , 75, 46-55	1.2	9
86	Combining the high-dose/refuge strategy and self-limiting transgenic insects in resistance management-A test in experimental mesocosms. <i>Evolutionary Applications</i> , <b>2018</b> , 11, 727-738	4.8	8
85	Allee effects and the spatial dynamics of a locally endangered butterfly, the high brown fritillary ( <i>Argynnis adippe</i> ) <b>2014</b> , 24, 108-20		8
84	The impact of alternative harvesting strategies in a resource-consumer metapopulation. <i>Journal of Applied Ecology</i> , <b>2011</b> , 48, 102-111	5.8	8
83	The Timing of Evolutionary Transitions Suggests Intelligent Life is Rare. <i>Astrobiology</i> , <b>2021</b> , 21, 265-278	3.7	8
82	Optimal control of malaria: combining vector interventions and drug therapies. <i>Malaria Journal</i> , <b>2018</b> , 17, 174	3.6	7
81	Simulating social-ecological systems: the Island Digital Ecosystem Avatars (IDEA) consortium. <i>GigaScience</i> , <b>2016</b> , 5, 14	7.6	7
80	Insect herbivory on seedlings of rainforest trees: Effects of density and distance of conspecific and heterospecific neighbors. <i>Ecology and Evolution</i> , <b>2018</b> , 8, 12702-12711	2.8	7
79	Asiatic cotton can generate similar economic benefits to Bt cotton under rainfed conditions. <i>Nature Plants</i> , <b>2015</b> , 1, 15072	11.5	6
78	The critical domain size of stochastic population models. <i>Journal of Mathematical Biology</i> , <b>2017</b> , 74, 755-782	7.82	6
77	How relevant is the basic reproductive number computed during the coronavirus disease 2019 (COVID-19) pandemic, especially during lockdowns?. <i>Infection Control and Hospital Epidemiology</i> , <b>2020</b> , 1-3	2	6



76	A CRISPR endonuclease gene drive reveals two distinct mechanisms of inheritance bias		6
75	Mammal extinctions and the increasing isolation of humans on the tree of life. <i>Ecology and Evolution</i> , <b>2019</b> , 9, 914-924	2.8	6
74	Optimal control for disease vector management in SIT models: an integrodifference equation approach. <i>Journal of Mathematical Biology</i> , <b>2019</b> , 78, 1821-1839	2	6
73	The application of self-limiting transgenic insects in managing resistance in experimental metapopulations. <i>Journal of Applied Ecology</i> , <b>2019</b> , 56, 688-698	5.8	6
72	Ignorance can be evolutionarily beneficial. <i>Ecology and Evolution</i> , <b>2018</b> , 8, 71-77	2.8	6
71	Insect pest control, approximate dynamic programming, and the management of the evolution of resistance. <i>Ecological Applications</i> , <b>2019</b> , 29, e01851	4.9	5
70	Resilience: nitrogen limitation, mycorrhiza and long-term palaeoecological plant-nutrient dynamics. <i>Biology Letters</i> , <b>2020</b> , 16, 20190441	3.6	5
69	Physiological dynamics, reproduction-maintenance allocations, and life history evolution. <i>Ecology and Evolution</i> , <b>2019</b> , 9, 9312-9323	2.8	5
68	Evolutionary stability and the rarity of grandmothering. <i>Ecology and Evolution</i> , <b>2017</b> , 7, 3574-3578	2.8	5
67	Spatial variation in the magnitude and functional form of density-dependent processes on the large skipper butterfly <i>Ochloides sylvanus</i> . <i>Ecological Entomology</i> , <b>2013</b> , 38, 608-616	2.1	5
66	The impact of non-lethal synergists on the population and evolutionary dynamics of host-pathogen interactions. <i>Journal of Theoretical Biology</i> , <b>2010</b> , 262, 567-75	2.3	5
65	The role of variability and risk on the persistence of shared-enemy, predator-prey assemblages. <i>Journal of Theoretical Biology</i> , <b>2003</b> , 221, 193-204	2.3	5
64	How and when to end the COVID-19 lockdown: an optimisation approach		5
63	Gene Drive-Modified Organisms: Developing Practical Risk Assessment Guidance. <i>Trends in Biotechnology</i> , <b>2021</b> , 39, 853-856	15.1	5
62	Optimal control approaches for combining medicines and mosquito control in tackling dengue. <i>Royal Society Open Science</i> , <b>2020</b> , 7, 181843	3.3	5
61	Crystal toxins and the volunteer's dilemma in bacteria. <i>Journal of Evolutionary Biology</i> , <b>2019</b> , 32, 310-319	2.3	4
60	The evolution of sleep is inevitable in a periodic world. <i>PLoS ONE</i> , <b>2018</b> , 13, e0201615	3.7	4
59	Interaction modifications lead to greater robustness than pairwise non-trophic effects in food webs. <i>Journal of Animal Ecology</i> , <b>2019</b> , 88, 1732-1742	4.7	4

58	An upper bound for the background rate of human extinction. <i>Scientific Reports</i> , <b>2019</b> , 9, 11054	4.9	4
57	Regional and local scale metapopulation dynamics in the interaction between <i>Callosobruchus maculatus</i> and <i>Anisopteromalus calandrae</i> . <i>Oikos</i> , <b>2010</b> , 119, 1735-1744	4	4
56	Apparent Competition and Vector-Host Interactions. <i>Israel Journal of Ecology and Evolution</i> , <b>2010</b> , 56, 393-416	0.8	4
55	Theoretical exploration of blastocyst morphogenesis. <i>International Journal of Developmental Biology</i> , <b>2009</b> , 53, 447-57	1.9	4
54	The evolutionary ecology of stem cells and their niches [The time is now]. <i>Oikos</i> , <b>2007</b> , 116, 1779-1781	4	4
53	Density dependence and noise determine the long-term dynamics of two species of lady beetle (Coleoptera: Coccinellidae: Epilachninae) in the Indonesian tropics. <i>Ecological Entomology</i> , <b>2007</b> , 32, 28-37 <sup>1</sup>	4	4
52	A Mathematical Modeling Approach to Uncover Factors Influencing the Spread of in a Flock of Broiler-Breeder Chickens. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 576646	5.7	4
51	Effects of maternal age and stress on offspring quality in a viviparous fly. <i>Ecology Letters</i> , <b>2021</b> , 24, 2113-2122	4	4
50	Temporary "Circuit Breaker" Lockdowns Could Effectively Delay a COVID-19 Second Wave Infection Peak to Early Spring. <i>Frontiers in Public Health</i> , <b>2020</b> , 8, 614945	6	3
49	Trait and phylogenetic diversity provide insights into community assembly of reef-associated shrimps (Palaemonidae) at different spatial scales across the Chagos Archipelago. <i>Ecology and Evolution</i> , <b>2018</b> , 8, 4098-4107	2.8	3
48	Exceptional biodiversity of the cryptofaunal decapods in the Chagos Archipelago, central Indian Ocean. <i>Marine Pollution Bulletin</i> , <b>2018</b> , 135, 636-647	6.7	3
47	The ecological and epidemiological consequences of reproductive interference between the vectors <i>Aedes aegypti</i> and <i>Aedes albopictus</i> . <i>Journal of the Royal Society Interface</i> , <b>2019</b> , 16, 20190270	4.1	3
46	Coevolution influences the evolution of filial cannibalism, offspring abandonment and parental care. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2019</b> , 286, 20191419	4.4	3
45	Parasite replication and the evolutionary epidemiology of parasite virulence. <i>PLoS ONE</i> , <b>2010</b> , 5, e12440	3.7	3
44	Engaging Religious Institutions and Faith-Based Communities in Public Health Initiatives: A Case Study of the Romanian Orthodox Church During the COVID-19 Pandemic.. <i>Frontiers in Public Health</i> , <b>2021</b> , 9, 768091	6	3
43	Nanopore metagenomic sequencing for detection and characterization of SARS-CoV-2 in clinical samples. <i>PLoS ONE</i> , <b>2021</b> , 16, e0259712	3.7	3
42	Evolution and maintenance of microbe-mediated protection under occasional pathogen infection. <i>Ecology and Evolution</i> , <b>2020</b> , 10, 8634-8642	2.8	3
41	Potential use of gene drive modified insects against disease vectors, agricultural pests and invasive species poses new challenges for risk assessment. <i>Critical Reviews in Biotechnology</i> , <b>2021</b> , 1-17	9.4	3

40	Weather variability and transmissibility of COVID-19: a time series analysis based on effective reproductive number. <i>Experimental Results</i> , <b>2021</b> , 2, e15	1.3	3
39	Unconventional Care: Offspring Abandonment and Filial Cannibalism Can Function as Forms of Parental Care. <i>Frontiers in Ecology and Evolution</i> , <b>2019</b> , 7,	3.7	2
38	Outcome of a public consultation on the draft adequacy and sufficiency evaluation of existing EFSA guidelines for the molecular characterisation, environmental risk assessment and post-market environmental monitoring of genetically modified insects containing engineered gene drives. <i>EFSA Supporting Publications</i> , <b>2020</b> , 17, 1939E	1.1	2
37	Management of a stage-structured insect pest: an application of approximate optimization <b>2018</b> , 28, 938-952		2
36	Genetics and the causes of evolution: 150 years of progress since Darwin. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2010</b> , 365, 2427-9	5.8	2
35	Linking Foraging and Dynamics 292-314		2
34	Lethal pathogens, non-lethal synergists and the evolutionary ecology of resistance. <i>Journal of Theoretical Biology</i> , <b>2008</b> , 254, 339-49	2.3	2
33	Predators reduce extinction risk in noisy metapopulations. <i>PLoS ONE</i> , <b>2010</b> , 5, e11635	3.7	2
32	Insect-host control of obligate, intracellular symbiont density. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2021</b> , 288, 20211993	4.4	2
31	Repertoire analysis of T cells in the chicken enables functional annotation of the genomic region revealing highly variable pan-tissue TCR gamma V gene usage as well as identifying public and private repertoires. <i>BMC Genomics</i> , <b>2021</b> , 22, 719	4.5	2
30	Common mechanisms explain nitrogen-dependent growth of Arctic shrubs over three decades despite heterogeneous trends and declines in soil nitrogen availability. <i>New Phytologist</i> , <b>2021</b> ,	9.8	2
29	Population-Level Density Dependence Influences the Origin and Maintenance of Parental Care. <i>PLoS ONE</i> , <b>2016</b> , 11, e0153839	3.7	2
28	Optimal time to return to normality: parallel use of COVID-19 vaccines and circuit breakers		2
27	Risk management recommendations for environmental releases of gene drive modified insects. <i>Biotechnology Advances</i> , <b>2021</b> , 54, 107807	17.8	2
26	BugSplit enables genome-resolved metagenomics through highly accurate taxonomic binning of metagenomic assemblies. <i>Communications Biology</i> , <b>2022</b> , 5, 151	6.7	2
25	Assessing the potential for indirect interactions between tropical tree species via shared insect seed predators. <i>Biotropica</i> , <b>2020</b> , 52, 509-520	2.3	1
24	BMC Ecology image competition: the winning images. <i>BMC Ecology</i> , <b>2013</b> , 13, 6	2.7	1
23	THE PHANTOM MIDGE AND A COMPARISON OF METAPOPOPULATION STRUCTURES <b>2002</b> , 83, 116		1

22	Mechanistic modelling of COVID-19 and the impact of lockdowns on a short-time scale. <i>PLoS ONE</i> , <b>2021</b> , 16, e0258084	3.7	1
21	A mathematical modelling approach to uncover factors influencing the spread of <i>Campylobacter</i> in a flock of chickens		1
20	Trophic interaction modifications disrupt the structure and stability of food webs		1
19	A mathematical model of <i>Campylobacter</i> dynamics within a broiler flock		1
18	Identifying important interaction modifications in ecological systems. <i>Oikos</i> , <b>2020</b> , 129, 147-157	4	1
17	Visualizing connectivity of ecological and evolutionary concepts-An exploration of research on plant species rarity. <i>Ecology and Evolution</i> , <b>2020</b> , 10, 9037-9047	2.8	1
16	Marine island biogeography. Response to comment on Island biogeography: patterns of marine shallow-water organisms. <i>Journal of Biogeography</i> , <b>2016</b> , 43, 2517-2519	4.1	1
15	Combining refuges with transgenic insect releases for the management of an insect pest with non-recessive resistance to Bt crops in agricultural landscapes. <i>Journal of Theoretical Biology</i> , <b>2021</b> , 509, 110514	2.3	1
14	The evolutionary dynamics of viruses: virion release strategies, time delays and fitness minima. <i>Virus Evolution</i> , <b>2021</b> , 7, veab039	3.7	1
13	Optimal COVID-19 Vaccine Sharing Between Two Nations That Also Have Extensive Travel Exchanges. <i>Frontiers in Public Health</i> , <b>2021</b> , 9, 633144	6	1
12	Incorporating effects of age on energy dynamics predicts nonlinear maternal allocation patterns in iteroparous animals.. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2022</b> , 289, 20211884	4.4	1
11	Catastrophe risk can accelerate unlikely evolutionary transitions.. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2022</b> , 289, 20212711	4.4	1
10	Mechanisms of biodiversity between sequence types in a flock of broiler-breeder chickens.. <i>Ecology and Evolution</i> , <b>2022</b> , 12, e8651	2.8	1
9	The Challenges in Developing Efficient and Robust Synthetic Homing Endonuclease Gene Drives.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2022</b> , 10, 856981	5.8	0
8	Nutritional availability and larval density dependence in <i>Aedes aegypti</i> . <i>Ecological Entomology</i> , <b>2020</b> , 45, 929-944	2.1	
7	Experimental subjects do not know what we think they know. <i>Scientific Reports</i> , <b>2020</b> , 10, 1117	4.9	
6	The concomitant effects of self-limiting insect releases and behavioural interference on patterns of coexistence and exclusion of competing mosquitoes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2021</b> , 288, 20210714	4.4	
5	The Qualitative Stage of Building Bayesian Belief Networks in a Focus Group Setting: Decision-Making under Uncertainty among Vietnamese Rice Farmers. <i>Sociological Methods and Research</i> , <b>2021</b> , 50, 75-102	2.9	

- 4 Can good broiler flock welfare prevent colonization by *Campylobacter*?. *Poultry Science*, **2021**, 100, 10143-10149
- 3 Evaluating strategies for spatial allocation of vaccines based on risk and centrality.. *Journal of the Royal Society Interface*, **2022**, 19, 20210709 4.1
- 2 Mathematical modelling of the mosquito *Aedes polynesiensis* in a heterogeneous environment.. *Mathematical Biosciences*, **2022**, 108811 3.9
- 1 Risk-benefit analysis of emergency vaccine use.. *Scientific Reports*, **2022**, 12, 7444 4.9