

Ben L Phillips

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

143 papers	7,463 citations	46 h-index	84 g-index
153 ext. papers	8,568 ext. citations	4.6 avg, IF	6.34 L-index

#	Paper	IF	Citations
143	Invasion and the evolution of speed in toads. <i>Nature</i> , 2006 , 439, 803	50.4	594
142	An evolutionary process that assembles phenotypes through space rather than through time. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 5708-11	11.5	329
141	Life-history evolution in range-shifting populations. <i>Ecology</i> , 2010 , 91, 1617-27	4.6	271
140	Trade-offs and the evolution of life-histories during range expansion. <i>Ecology Letters</i> , 2010 , 13, 1210-20	10	269
139	Modelling species distributions without using species distributions: the cane toad in Australia under current and future climates. <i>Ecography</i> , 2008 , 31, 423-434	6.5	258
138	Adapting to an invasive species: toxic cane toads induce morphological change in Australian snakes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 17150-5	11.5	210
137	Stability of the wMel Wolbachia Infection following invasion into <i>Aedes aegypti</i> populations. <i>PLoS Neglected Tropical Diseases</i> , 2014 , 8, e3115	4.8	204
136	The cane toad's (<i>Chaunus</i> [Bufo] <i>marinus</i>) increasing ability to invade Australia is revealed by a dynamically updated range model. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007 , 274, 1413-9	4.4	204
135	A toad more traveled: the heterogeneous invasion dynamics of cane toads in Australia. <i>American Naturalist</i> , 2008 , 171, E134-48	3.7	182
134	Reid's paradox revisited: the evolution of dispersal kernels during range expansion. <i>American Naturalist</i> , 2008 , 172 Suppl 1, S34-48	3.7	177
133	An invasive species induces rapid adaptive change in a native predator: cane toads and black snakes in Australia. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006 , 273, 1545-50	4.4	177
132	The capacity of refugia for conservation planning under climate change. <i>Frontiers in Ecology and the Environment</i> , 2015 , 13, 106-112	5.5	166
131	Rapid expansion of the cane toad (<i>Bufo marinus</i>) invasion front in tropical Australia. <i>Austral Ecology</i> , 2007 , 32, 169-176	1.5	163
130	Assessing the Potential Impact of Cane Toads on Australian Snakes. <i>Conservation Biology</i> , 2003 , 17, 1738-1747	156	156
129	Parasites and pathogens lag behind their host during periods of host range advance. <i>Ecology</i> , 2010 , 91, 872-81	4.6	155
128	Evolutionarily accelerated invasions: the rate of dispersal evolves upwards during the range advance of cane toads. <i>Journal of Evolutionary Biology</i> , 2010 , 23, 2595-601	2.3	143
127	Identification and dynamics of a cryptic suture zone in tropical rainforest. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009 , 276, 1235-44	4.4	124

126	Toad on the road: Use of roads as dispersal corridors by cane toads (<i>Bufo marinus</i>) at an invasion front in tropical Australia. <i>Biological Conservation</i> , 2006 , 133, 88-94	6.2	122
125	The evolution of growth rates on an expanding range edge. <i>Biology Letters</i> , 2009 , 5, 802-4	3.6	115
124	Evolution of dispersal and life history interact to drive accelerating spread of an invasive species. <i>Ecology Letters</i> , 2013 , 16, 1079-87	10	114
123	Comparisons through time and space suggest rapid evolution of dispersal behaviour in an invasive species. <i>Wildlife Research</i> , 2009 , 36, 23	1.8	109
122	Locomotor performance in an invasive species: cane toads from the invasion front have greater endurance, but not speed, compared to conspecifics from a long-colonised area. <i>Oecologia</i> , 2010 , 162, 343-8	2.9	105
121	Rapid shifts in dispersal behavior on an expanding range edge. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 13452-6	11.5	101
120	When vicars meet: a narrow contact zone between morphologically cryptic phylogeographic lineages of the rainforest skink, <i>Carlia rubrigularis</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2004 , 58, 1536-48	3.8	93
119	Predator behaviour and morphology mediates the impact of an invasive species: cane toads and death adders in Australia. <i>Animal Conservation</i> , 2010 , 13, 53-59	3.2	83
118	A native dasyurid predator (common planigale, <i>Planigale maculata</i>) rapidly learns to avoid a toxic invader. <i>Austral Ecology</i> , 2008 , 33, 821-829	1.5	83
117	Invasion, stress, and spinal arthritis in cane toads. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 17698-700	11.5	78
116	The evolution of an intelligent dispersal strategy: biased, correlated random walks in patchy landscapes. <i>Oikos</i> , 2009 , 118, 309-319	4	76
115	Forecasting species range dynamics with process-explicit models: matching methods to applications. <i>Ecology Letters</i> , 2019 , 22, 1940-1956	10	72
114	Invader immunology: invasion history alters immune system function in cane toads (<i>Rhinella marina</i>) in tropical Australia. <i>Ecology Letters</i> , 2015 , 18, 57-65	10	69
113	Increasing arboreality with altitude: a novel biogeographic dimension. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013 , 280, 20131581	4.4	69
112	Characteristics of climate change refugia for Australian biodiversity. <i>Austral Ecology</i> , 2014 , 39, 887-897	1.5	66
111	Toxic tucker: the potential impact of Cane Toads on Australian reptiles. <i>Pacific Conservation Biology</i> , 2006 , 12, 40	1.2	63
110	Do dingoes suppress the activity of feral cats in northern Australia?. <i>Austral Ecology</i> , 2012 , 37, 134-139	1.5	60
109	The straight and narrow path: the evolution of straight-line dispersal at a cane toad invasion front. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014 , 281,	4.4	59

108	Reduced investment in immune function in invasion-front populations of the cane toad (<i>Rhinella marina</i>) in Australia. <i>Biological Invasions</i> , 2012 , 14, 999-1008	2.7	57
107	New Weapons in the Toad Toolkit: A Review of Methods to Control and Mitigate the Biodiversity Impacts of Invasive Cane Toads (<i>Rhinella Marina</i>). <i>Quarterly Review of Biology</i> , 2017 , 92, 123-49	5.4	54
106	Targeted gene flow for conservation. <i>Conservation Biology</i> , 2016 , 30, 259-67	6	54
105	Allometry and selection in a novel predator-prey system: Australian snakes and the invading cane toad. <i>Oikos</i> , 2006 , 112, 122-130	4	53
104	Effects of an invasive anuran [the cane toad (<i>Bufo marinus</i>)] on the invertebrate fauna of a tropical Australian floodplain. <i>Animal Conservation</i> , 2006 , 9, 431-438	3.2	52
103	Heat hardening in a tropical lizard: geographic variation explained by the predictability and variance in environmental temperatures. <i>Functional Ecology</i> , 2016 , 30, 1161-1168	5.6	51
102	The morphology, and hence impact, of an invasive species (the cane toad, <i>Bufo marinus</i>): changes with time since colonisation. <i>Animal Conservation</i> , 2005 , 8, 407-413	3.2	50
101	Adjusting to a toxic invader: native Australian frogs learn not to prey on cane toads. <i>Behavioral Ecology</i> , 2010 , 21, 966-971	2.3	49
100	The toad ahead: challenges of modelling the range and spread of an invasive species. <i>Wildlife Research</i> , 2008 , 35, 222	1.8	49
99	The ecological impact of invasive cane toads on tropical snakes: field data do not support laboratory-based predictions. <i>Ecology</i> , 2011 , 92, 422-31	4.6	48
98	The perils of paradise: an endangered species conserved on an island loses antipredator behaviours within 13 generations. <i>Biology Letters</i> , 2018 , 14,	3.6	46
97	The spatial ecology of cane toads (<i>Bufo marinus</i>) in tropical Australia: Why do metamorph toads stay near the water?. <i>Austral Ecology</i> , 2008 , 33, 630-640	1.5	45
96	Single copy nuclear DNA markers characterized for comparative phylogeography in Australian wet tropics rainforest skinks. <i>Molecular Ecology Notes</i> , 2004 , 4, 185-187		45
95	Benefits of female mimicry in snakes. <i>Nature</i> , 2001 , 414, 267	50.4	45
94	Establishment success of introduced amphibians increases in the presence of congeneric species. <i>American Naturalist</i> , 2011 , 177, 382-8	3.7	43
93	Stepping inside the niche: microclimate data are critical for accurate assessment of species' vulnerability to climate change. <i>Biology Letters</i> , 2014 , 10,	3.6	42
92	Identifying optimal barriers to halt the invasion of cane toads <i>Rhinella marina</i> in arid Australia. <i>Journal of Applied Ecology</i> , 2013 , 50, 129-137	5.8	42
91	Virgins in the vanguard: low reproductive frequency in invasion-front cane toads. <i>Biological Journal of the Linnean Society</i> , 2015 , 116, 743-747	1.9	42

90	Mechanisms and consequences of sexual conflict in garter snakes (<i>Thamnophis sirtalis</i> , Colubridae). <i>Behavioral Ecology</i> , 2004 , 15, 654-660	2.3	42
89	Risky movement increases the rate of range expansion. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012 , 279, 1194-202	4.4	39
88	Do invasive cane toads (<i>Chaunus marinus</i>) compete with Australian frogs (<i>Cyclorana australis</i>)?. <i>Austral Ecology</i> , 2007 , 32, 900-907	1.5	38
87	The Potential for Rapid Evolution under Anthropogenic Climate Change. <i>Current Biology</i> , 2019 , 29, R996-R1007	6.3	37
86	Spatial sorting as the spatial analogue of natural selection. <i>Theoretical Ecology</i> , 2019 , 12, 155-163	1.6	35
85	Do pathogens become more virulent as they spread? Evidence from the amphibian declines in Central America. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013 , 280, 20131290	4.4	35
84	Range shift promotes the formation of stable range edges. <i>Journal of Biogeography</i> , 2012 , 39, 153-161	4.1	34
83	The frog filter: amphibian introduction bias driven by taxonomy, body size and biogeography. <i>Global Ecology and Biogeography</i> , 2010 , 19, 496	6.1	34
82	The lexicon of love: what cues cause size-assortative courtship by male garter snakes?. <i>Behavioral Ecology and Sociobiology</i> , 2003 , 53, 234-237	2.5	34
81	Evolutionary processes make invasion speed difficult to predict. <i>Biological Invasions</i> , 2015 , 17, 1949-1960	2.7	33
80	Improved spatial estimates of climate predict patchier species distributions. <i>Diversity and Distributions</i> , 2013 , 19, 1106-1113	5	33
79	Abiotic and biotic influences on the dispersal behavior of metamorph cane toads (<i>Bufo marinus</i>) in tropical Australia. <i>Journal of Experimental Zoology</i> , 2008 , 309, 215-24		33
78	Vertical (arboreality) and horizontal (dispersal) movement increase the resilience of vertebrates to climatic instability. <i>Global Ecology and Biogeography</i> , 2017 , 26, 787-798	6.1	31
77	Adaptation or preadaptation: why are keelback snakes (<i>Tropidonophis mairii</i>) less vulnerable to invasive cane toads (<i>Bufo marinus</i>) than are other Australian snakes?. <i>Evolutionary Ecology</i> , 2011 , 25, 13-24	1.8	30
76	Intraspecific variation in climate-relevant traits in a tropical rainforest lizard. <i>Diversity and Distributions</i> , 2016 , 22, 1000-1012	5	29
75	Stress and immunity at the invasion front: a comparison across cane toad (<i>Rhinella marina</i>) populations. <i>Biological Journal of the Linnean Society</i> , 2015 , 116, 748-760	1.9	27
74	Species-isolating mechanisms in a mating system with male mate choice (garter snakes, <i>Thamnophis</i> spp.). <i>Canadian Journal of Zoology</i> , 2004 , 82, 1091-1098	1.5	26
73	Adjusting to climate: Acclimation, adaptation and developmental plasticity in physiological traits of a tropical rainforest lizard. <i>Integrative Zoology</i> , 2018 , 13, 411-427	1.9	25

72	Out of the frying pan: Reintroduction of toad-smart northern quolls to southern Kakadu National Park. <i>Austral Ecology</i> , 2018 , 43, 139-149	1.5	25
71	Do evolutionary constraints on thermal performance manifest at different organizational scales?. <i>Journal of Evolutionary Biology</i> , 2014 , 27, 2687-94	2.3	25
70	Fatal attraction: adaptations to prey on native frogs imperil snakes after invasion of toxic toads. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009 , 276, 2813-8	4.4	24
69	Behavioral shifts associated with reproduction in garter snakes. <i>Behavioral Ecology</i> , 2003 , 14, 251-256	2.3	24
68	Peripheral Isolates as Sources of Adaptive Diversity under Climate Change. <i>Frontiers in Ecology and Evolution</i> , 2017 , 5,	3.7	23
67	Does desiccation risk drive the distribution of juvenile cane toads (<i>Bufo marinus</i>) in tropical Australia?. <i>Journal of Tropical Ecology</i> , 2009 , 25, 193-200	1.3	23
66	Tails of enticement: caudal luring by an ambush-foraging snake (<i>Acanthophis praelongus</i> , Elapidae). <i>Functional Ecology</i> , 2008 , 22, 1134-1139	5.6	22
65	Spatial and temporal variation in the morphology (and thus, predicted impact) of an invasive species in Australia. <i>Ecography</i> , 2006 , 29, 205-212	6.5	21
64	After the crash: How do predators adjust following the invasion of a novel toxic prey type?. <i>Austral Ecology</i> , 2014 , 39, 190-197	1.5	20
63	Thermoregulatory behaviour explains countergradient variation in the upper thermal limit of a rainforest skink. <i>Oikos</i> , 2017 , 126, 748-757	4	20
62	Heritability of climate-relevant traits in a rainforest skink. <i>Heredity</i> , 2019 , 122, 41-52	3.6	19
61	Targeted gene flow and rapid adaptation in an endangered marsupial. <i>Conservation Biology</i> , 2019 , 33, 112-121	6	18
60	Asplenium bird's nest ferns in rainforest canopies are climate-contingent refuges for frogs. <i>Global Ecology and Conservation</i> , 2014 , 2, 37-46	2.8	18
59	Sublethal costs associated with the consumption of toxic prey by snakes. <i>Austral Ecology</i> , 2009 , 34, 179-184	1.5	18
58	When dinner is dangerous: toxic frogs elicit species-specific responses from a generalist snake predator. <i>American Naturalist</i> , 2007 , 170, 936-42	3.7	18
57	After the games are over: life-history trade-offs drive dispersal attenuation following range expansion. <i>Ecology and Evolution</i> , 2016 , 6, 6425-6434	2.8	17
56	The role of behavioural variation in the invasion of new areas 2012 , 190-200		16
55	Living on the Edge: Parasite Prevalence Changes Dramatically across a Range Edge in an Invasive Gecko. <i>American Naturalist</i> , 2017 , 189, 178-183	3.7	15

54	Not such silly sausages: Evidence suggests northern quolls exhibit aversion to toads after training with toad sausages. <i>Austral Ecology</i> , 2018 , 43, 592-601	1.5	14
53	The genetic backburn: using rapid evolution to halt invasions. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016 , 283, 20153037	4.4	14
52	Get smart: native mammal develops toad-smart behavior in response to a toxic invader. <i>Behavioral Ecology</i> , 2017 , 28, 854-858	2.3	14
51	An invasive species imposes selection on life-history traits of a native frog. <i>Biological Journal of the Linnean Society</i> , 2010 , 100, 329-336	1.9	14
50	Behavioural responses of reptile predators to invasive cane toads in tropical Australia. <i>Austral Ecology</i> , 2014 , 39, 448-454	1.5	13
49	Bias averted: personality may not influence trappability. <i>Behavioral Ecology and Sociobiology</i> , 2019 , 73, 1	2.5	12
48	Turgid female toads give males the slip: a new mechanism of female mate choice in the Anura. <i>Biology Letters</i> , 2010 , 6, 322-4	3.6	12
47	Cane toads lack physiological enhancements for dispersal at the invasive front in Northern Australia. <i>Biology Open</i> , 2012 , 1, 37-42	2.2	12
46	May the (selective) force be with you: Spatial sorting and natural selection exert opposing forces on limb length in an invasive amphibian. <i>Journal of Evolutionary Biology</i> , 2019 , 32, 994-1001	2.3	11
45	Cost and feasibility of a barrier to halt the spread of invasive cane toads in arid Australia: incorporating expert knowledge into model-based decision-making. <i>Journal of Applied Ecology</i> , 2017 , 54, 216-224	5.8	11
44	Going feral: Time and propagule pressure determine range expansion of Asian house geckos into natural environments. <i>Austral Ecology</i> , 2017 , 42, 165-175	1.5	11
43	How many and when? Optimising targeted gene flow for a step change in the environment. <i>Ecology Letters</i> , 2019 , 22, 447-457	10	11
42	The impact of parasites during range expansion of an invasive gecko. <i>Parasitology</i> , 2018 , 145, 1400-1409	2.7	10
41	Road transect surveys do not reveal any consistent effects of a toxic invasive species on tropical reptiles. <i>Biological Invasions</i> , 2013 , 15, 1005-1015	2.7	10
40	Infection in patchy populations: Contrasting pathogen invasion success and dispersal at varying times since host colonization. <i>Evolution Letters</i> , 2019 , 3, 555-566	5.3	10
39	Using connectivity to identify climatic drivers of local adaptation. <i>Ecology Letters</i> , 2018 , 21, 207-216	10	10
38	Directional dispersal has not evolved during the cane toad invasion. <i>Functional Ecology</i> , 2015 , 29, 830-838	3.6	9
37	Evolution Transforms Pushed Waves into Pulled Waves. <i>American Naturalist</i> , 2020 , 195, E87-E99	3.7	9

36	Exploring mechanisms and origins of reduced dispersal in island Komodo dragons. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018 , 285,	4.4	9
35	Invasion history alters the behavioural consequences of immune system activation in cane toads. <i>Journal of Animal Ecology</i> , 2018 , 87, 716-726	4.7	8
34	There is no evidence for a temporal link between pathogen arrival and frog extinctions in north-eastern Australia. <i>PLoS ONE</i> , 2012 , 7, e52502	3.7	8
33	Accounting for detectability and abundance in survey design for a declining species. <i>Diversity and Distributions</i> , 2019 , 25, 1655-1665	5	7
32	Chemoreception and mating behaviour of a tropical Australian skink. <i>Acta Ethologica</i> , 2015 , 18, 283-293	1.1	7
31	Reply to Lee: Spatial sorting, assortative mating, and natural selection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, E348-E348	11.5	7
30	Rapid evolution in predator-free conservation havens and its effects on endangered species recovery. <i>Conservation Biology</i> , 2021 , 35, 383-385	6	7
29	Fire history from life-history: determining the fire regime that a plant community is adapted using life-histories. <i>PLoS ONE</i> , 2012 , 7, e31544	3.7	5
28	Can pathogens optimize both transmission and dispersal by exploiting sexual dimorphism in their hosts?. <i>Biology Letters</i> , 2019 , 15, 20190180	3.6	4
27	WHEN VICARS MEET: A NARROW CONTACT ZONE BETWEEN MORPHOLOGICALLY CRYPTIC PHYLOGEOGRAPHIC LINEAGES OF THE RAINFOREST SKINK, CARLIA RUBRIGULARIS. <i>Evolution; International Journal of Organic Evolution</i> , 2004 , 58, 1536	3.8	4
26	Trophic cascade driven by behavioral fine-tuning as naïve prey rapidly adjust to a novel predator. <i>Ecology</i> , 2021 , 102, e03363	4.6	4
25	Energetic scaling across different host densities and its consequences for pathogen proliferation. <i>Functional Ecology</i> , 2021 , 35, 475-484	5.6	4
24	Training fails to elicit behavioral change in a marsupial suffering evolutionary loss of antipredator behaviors. <i>Journal of Mammalogy</i> , 2020 , 101, 1108-1116	1.8	3
23	Unwelcome and unpredictable: the sorry saga of cane toads in Australia	83-104	3
22	Evolution transforms pushed waves into pulled waves		3
21	No outbreeding depression in a trial of targeted gene flow in an endangered Australian marsupial. <i>Conservation Genetics</i> , 2021 , 22, 23-33	2.6	3
20	Behavioural responses of an Australian colubrid snake (<i>Dendrelaphis punctulatus</i>) to a novel toxic prey item (the Cane Toad <i>Rhinella marina</i>). <i>Biological Invasions</i> , 2018 , 20, 2507-2516	2.7	2
19	Bangers and cash: Baiting efficiency in a heterogeneous population. <i>Wildlife Society Bulletin</i> , 2019 , 43, 669-677	1.4	2

18	The on-ground feasibility of a waterless barrier to stop the spread of invasive cane toads in Western Australia. <i>Conservation Science and Practice</i> , 2019 , 1, e74	2.2	2
17	Anywhere but here: local conditions motivate dispersal in. <i>PeerJ</i> , 2019 , 7, e6599	3.1	2
16	Trophic cascade driven by behavioural fine-tuning as naïve prey rapidly adjust to a novel predator		2
15	Effects of learning and adaptation on population viability. <i>Conservation Biology</i> , 2021 , 35, 1245-1255	6	2
14	Whispers on the wind: male cane toads modify mate searching and amplexus tactics based on calls from other males. <i>Animal Behaviour</i> , 2019 , 153, 131-136	2.8	1
13	Spatial Sorting Unlikely to Promote Maladaptive Hybridization: Response to Lowe, Muhlfeld, and Allendorf. <i>Trends in Ecology and Evolution</i> , 2015 , 30, 564-565	10.9	1
12	Using Biophysical Models to Improve Survey Efficiency for Cryptic Ectotherms. <i>Journal of Wildlife Management</i> , 2020 , 84, 1185-1195	1.9	1
11	Identifying the time scale of synchronous movement: a study on tropical snakes. <i>Movement Ecology</i> , 2015 , 3, 12	4.6	1
10	Estimating the benefit of quarantine: eradicating invasive cane toads from islands. <i>NeoBiota</i> , 2019 , 60, 117-136	4.2	1
9	Using connectivity to identify climatic drivers of local adaptation		1
8	Clipping the Tail Fin Enables Cohort Identification of Small Anuran Tadpoles. <i>Copeia</i> , 2019 , 107, 71	1.1	1
7	Taste overshadows less salient cues to elicit food aversion in endangered marsupial. <i>Applied Animal Behaviour Science</i> , 2018 , 209, 83-87	2.2	1
6	Increased rates of dispersal of free-ranging cane toads (<i>Rhinella marina</i>) during their global invasion. <i>Scientific Reports</i> , 2021 , 11, 23574	4.9	0
5	Behaviour on Invasion Fronts, and the Behaviour of Invasion Fronts		0
4	No behavioral syndromes or sex-specific personality differences in the southern rainforest sunskink (<i>Lampropholis similis</i>). <i>Ethology</i> , 2021 , 127, 102-108	1.7	0
3	Selection on a single trait does not recapitulate the evolution of life-history traits seen during an invasion. <i>Peer Community in Evolutionary Biology</i> , 2020 , 100096		
2	Novel Predators can Elicit Rapid Shifts in Prey Demographics and Behavior. <i>Bulletin of the Ecological Society of America</i> , 2021 , 102, e01921	0.7	
1	Time since fire is an over-simplified measure of habitat suitability for the New Holland mouse. <i>Journal of Mammalogy</i> , 2020 , 101, 476-486	1.8	

