

Phillip G Byrne

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

2,090
citations

257450

24
h-index

276875

41
g-index

82
all docs

82
docs citations

82
times ranked

1799
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for adaptive male mate choice in the fruit fly <i>Drosophila melanogaster</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 917-922.	2.6	200
2	Sperm competition selects for increased testes mass in Australian frogs. <i>Journal of Evolutionary Biology</i> , 2002, 15, 347-355.	1.7	155
3	Sperm competition and the evolution of gamete morphology in frogs. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 2079-2086.	2.6	140
4	Assessing sexual conflict in the <i>Drosophila melanogaster</i> laboratory model system. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006, 361, 287-299.	4.0	106
5	Animal personality and behavioral syndromes in amphibians: a review of the evidence, experimental approaches, and implications for conservation. <i>Behavioral Ecology and Sociobiology</i> , 2018, 72, 1.	1.4	89
6	Intrasexual selection and group spawning in quacking frogs (<i>Crinia georgiana</i>). <i>Behavioral Ecology</i> , 2004, 15, 872-882.	2.2	80
7	Synchronous polyandry and multiple paternity in the frog <i>Crinia georgiana</i> (Anura: Myobatrachidae). <i>Animal Behaviour</i> , 1999, 57, 721-726.	1.9	64
8	Terrestrial toadlets use chemosignals to recognize conspecifics, locate mates and strategically adjust calling behaviour. <i>Animal Behaviour</i> , 2007, 74, 1155-1162.	1.9	60
9	ASSESSING THE POTENTIAL FOR AN ONGOING ARMS RACE WITHIN AND BETWEEN THE SEXES: SELECTION AND HERITABLE VARIATION. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 1540-1551.	2.3	54
10	Extreme sequential polyandry insures against nest failure in a frog. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 115-120.	2.6	49
11	The Role of Reproductive Technologies in Amphibian Conservation Breeding Programs. <i>Annual Review of Animal Biosciences</i> , 2019, 7, 499-519.	7.4	48
12	The role of phylogeny and ecology in shaping morphology in 21 genera and 127 species of Australian and Apuan myobatrachid frogs. <i>Journal of Evolutionary Biology</i> , 2014, 27, 181-192.	1.7	43
13	Hormonal induction of gamete release, and in-vitro fertilisation, in the critically endangered Southern Corroboree Frog, <i>Pseudophryne corroboree</i> . <i>Reproductive Biology and Endocrinology</i> , 2010, 8, 144.	3.3	42
14	Larval Tolerance to Salinity in Three Species of Australian Anuran: An Indication of Saline Specialisation in <i>Litoria aurea</i> . <i>PLoS ONE</i> , 2012, 7, e43427.	2.5	37
15	Body size predicts between-individual differences in exploration behaviour in the southern corroboree frog. <i>Animal Behaviour</i> , 2017, 129, 161-170.	1.9	35
16	Diverse aging rates in ectothermic tetrapods provide insights for the evolution of aging and longevity. <i>Science</i> , 2022, 376, 1459-1466.	12.6	34
17	Male sperm expenditure under sperm competition risk and intensity in quacking frogs. <i>Behavioral Ecology</i> , 2004, 15, 857-863.	2.2	32
18	Strategic Male Calling Behavior in an Australian Terrestrial Toadlet (<i>Pseudophryne bibronii</i>). <i>Copeia</i> , 2008, 2008, 57-63.	1.3	31

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19	Evolutionary causes and consequences of sequential polyandry in anuran amphibians. <i>Biological Reviews</i> , 2012, 87, 209-228.	10.4	31
20	Heavy metal pollution negatively correlates with anuran species richness and distribution in south-eastern Australia. <i>Austral Ecology</i> , 2013, 38, 523-533.	1.5	29
21	Remating in <i>Drosophila melanogaster</i> : an examination of the trading-up and intrinsic male-quality hypotheses. <i>Journal of Evolutionary Biology</i> , 2005, 18, 1324-1331.	1.7	28
22	Simultaneous polyandry increases fertilization success in an African foam-nesting treefrog. <i>Animal Behaviour</i> , 2008, 76, 1157-1164.	1.9	28
23	Polyandry, Sperm Competition, and the Evolution of Anuran Amphibians. <i>Advances in the Study of Behavior</i> , 2011, , 1-53.	1.6	27
24	Climatic Correlates of Breeding, Simultaneous Polyandry and Potential for Sperm Competition in the Frog <i>Crinia georgiana</i> . <i>Journal of Herpetology</i> , 2002, 36, 125-129.	0.5	26
25	Antibiotics and oxygen availability affect the short-term storage of spermatozoa from the critically endangered booroolong frog, <i>Litoria booroolongensis</i> . <i>Reproduction, Fertility and Development</i> , 2015, 27, 1147.	0.4	25
26	Dietary carotenoids change the colour of Southern corroboree frogs. <i>Biological Journal of the Linnean Society</i> , 2016, 119, 436-444.	1.6	25
27	Long-term changes in food availability mediate the effects of temperature on growth, development and survival in striped marsh frog larvae: implications for captive breeding programmes. , 2015, 3, cov029.		24
28	The adoption of landmarks for territorial boundaries. <i>Animal Behaviour</i> , 2012, 83, 871-878.	1.9	23
29	Hormone-induced sperm-release in the critically endangered Booroolong frog (<i>Litoria tjirri</i>) gonadotropin. , 2019, 7, coy080.	1.0784314	23
30	Anuran larval developmental plasticity and survival in response to variable salinity of ecologically relevant timing and magnitude. <i>Journal of Experimental Zoology</i> , 2014, 321, 541-549.	1.2	22
31	Effect of a refuge from persistent male courtship in the <i>Drosophila</i> laboratory environment. <i>Integrative and Comparative Biology</i> , 2008, 48, e1-e1.	2.0	21
32	The Blow Fly Waltz: Field and Laboratory Observations of Novel and Complex Dipteran Courtship Behavior. <i>Journal of Insect Behavior</i> , 2019, 32, 109-119.	0.7	21
33	Assessing the potential for an ongoing arms race within and between the sexes: selection and heritable variation. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 1540-51.	2.3	20
34	Love at first flight: wing interference patterns are species-specific and sexually dimorphic in blowflies (Diptera: Calliphoridae). <i>Journal of Evolutionary Biology</i> , 2021, 34, 558-570.	1.7	19
35	Effects of simultaneous polyandry on offspring fitness in an African tree frog. <i>Behavioral Ecology</i> , 2011, 22, 385-391.	2.2	18
36	Sperm motility activation in the critically endangered booroolong frog: the effect of medium osmolality and phosphodiesterase inhibitors. <i>Reproduction, Fertility and Development</i> , 2017, 29, 2277.	0.4	18

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37	The effect of gentamicin on sperm motility and bacterial abundance during chilled sperm storage in the Booroolong frog. <i>General and Comparative Endocrinology</i> , 2017, 243, 51-59.	1.8	18
38	Dietary Carotenoid Supplementation Enhances the Cutaneous Bacterial Communities of the Critically Endangered Southern Corroboree Frog (<i>Pseudophryne corroboree</i>). <i>Microbial Ecology</i> , 2017, 73, 435-444.	2.8	18
39	Effect of captivity on morphology: negligible changes in external morphology mask significant changes in internal morphology. <i>Royal Society Open Science</i> , 2018, 5, 172470.	2.4	18
40	Dietary carotenoid supplementation improves the escape performance of the southern corroboree frog. <i>Animal Behaviour</i> , 2016, 112, 213-220.	1.9	17
41	An experimental test of the genetic consequences of population augmentation in an amphibian. <i>Conservation Science and Practice</i> , 2020, 2, e194.	2.0	17
42	Environmental osmolality influences sperm motility activation in an anuran amphibian. <i>Journal of Evolutionary Biology</i> , 2015, 28, 521-534.	1.7	16
43	Mating success is predicted by the interplay between multiple male and female traits in the small hairy maggot blowfly. <i>Animal Behaviour</i> , 2014, 97, 193-200.	1.9	15
44	The unexpected genetic mating system of the red-backed toadlet (<i>Pseudophryne coriacea</i>): A species with prolonged terrestrial breeding and cryptic reproductive behaviour. <i>Molecular Ecology</i> , 2018, 27, 3001-3015.	3.9	15
45	Female choice for related males in wild red-backed toadlets (<i>Pseudophryne coriacea</i>). <i>Behavioral Ecology</i> , 2019, 30, 928-937.	2.2	12
46	Short- and long-term consequences of developmental saline stress: impacts on anuran respiration and behaviour. <i>Royal Society Open Science</i> , 2016, 3, 150640.	2.4	11
47	Testing the effect of dietary carotenoids on larval survival, growth and development in the critically endangered southern corroboree frog. <i>Zoo Biology</i> , 2017, 36, 161-169.	1.2	11
48	Body Odor and Sex: Do Cuticular Hydrocarbons Facilitate Sexual Attraction in the Small Hairy Maggot Blowfly?. <i>Journal of Chemical Ecology</i> , 2018, 44, 248-256.	1.8	11
49	The evolution of sexually dimorphic cuticular hydrocarbons in blowflies (Diptera: Calliphoridae). <i>Journal of Evolutionary Biology</i> , 2020, 33, 1468-1486.	1.7	11
50	Effects of captivity on house mice behaviour in a novel environment: Implications for conservation practices. <i>Applied Animal Behaviour Science</i> , 2017, 189, 98-106.	1.9	10
51	Educating the enemy: Harnessing learned avoidance behavior in wild predators to increase survival of reintroduced southern corroboree frogs. <i>Conservation Science and Practice</i> , 2020, 2, e139.	2.0	10
52	Hormone-induced spawning of the critically endangered northern corroboree frog <i>Pseudophryne pengilleyi</i> . <i>Reproduction, Fertility and Development</i> , 2018, 30, 1352.	0.4	9
53	Major Transitions in Cuticular Hydrocarbon Expression Coincide with Sexual Maturity in a Blowfly (Diptera: Calliphoridae). <i>Journal of Chemical Ecology</i> , 2020, 46, 610-618.	1.8	9
54	The effect of antioxidants on sperm motility activation in the Booroolong frog. <i>Animal Reproduction Science</i> , 2017, 183, 126-131.	1.5	9

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55	Dietary carotenoids affect the development of individual differences and behavioral plasticity. <i>Behavioral Ecology</i> , 2019, 30, 1273-1282.	2.2	8
56	The effect of dietary antioxidants and exercise training on the escape performance of Southern Corroboree frogs. <i>Behavioural Processes</i> , 2017, 144, 46-50.	1.1	7
57	Exploring the influence of individual courtship behaviors on male mating success in a blow fly. <i>Journal of Insect Behavior</i> , 2017, 30, 528-543.	0.7	7
58	Dose and life stage-dependent effects of dietary beta-carotene supplementation on the growth and development of the Booroolong frog. , 2018, 6, coy052.		7
59	Effect of carotenoid class and dose on the larval growth and development of the critically endangered southern corroboree frog. , 2019, 7, coz009.		7
60	Nest site selection in a terrestrial breeding frog: interrelationships between nest moisture, pH and male advertisement. <i>Animal Behaviour</i> , 2020, 169, 57-64.	1.9	7
61	Variation in the effect of repeated intrusions on calling behavior in a territorial toadlet. <i>Behavioral Ecology</i> , 2012, 23, 93-100.	2.2	6
62	Reduction in site fidelity with smaller spatial scale may suggest scale-dependent information use. <i>Behavioral Ecology</i> , 2015, 26, 543-549.	2.2	6
63	Genetic benefits of extreme sequential polyandry in a terrestrial breeding frog. <i>Evolution; International Journal of Organic Evolution</i> , 2019, 73, 1972-1985.	2.3	6
64	Sex differences in response to environmental and social breeding cues in an amphibian. <i>Behaviour</i> , 2021, 158, 397-426.	0.8	6
65	Disease influences male advertisement and mating outcomes in a critically endangered amphibian. <i>Animal Behaviour</i> , 2021, 173, 145-157.	1.9	6
66	The effect of injection and topical application of hCG and GnRH agonist to induce sperm-release in the roseate frog, <i>Geocrinia rosea</i> . , 2020, 8, coaa104.		6
67	Warmer temperature and provision of natural substrate enable earlier metamorphosis in the critically endangered Baw Baw frog. , 2020, 8, coaa030.		5
68	Hormone-induced ovulation and artificial fertilisation in four terrestrial-breeding anurans. <i>Reproduction, Fertility and Development</i> , 2021, 33, 615.	0.4	5
69	Evidence that genetic compatibility underpins female mate choice in a monandrous amphibian. <i>Evolution; International Journal of Organic Evolution</i> , 2021, 75, 529-541.	2.3	5
70	Anuran developmental plasticity loss: the cost of constant salinity stress. <i>Australian Journal of Zoology</i> , 2015, 63, 331.	1.0	4
71	The influence of carotenoid supplementation at different life-stages on the foraging performance of the Southern Corroboree frog (<i>Pseudophryne corroboree</i>): A test of the Silver Spoon and Environmental Matching Hypotheses. <i>Behavioural Processes</i> , 2016, 125, 26-33.	1.1	4
72	What role does heritability play in transgenerational phenotypic responses to captivity? Implications for managing captive populations. <i>Zoo Biology</i> , 2017, 36, 397-406.	1.2	4

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73	Effect of long-term dietary beta-carotene supplementation on sperm concentration and motility in an endangered amphibian. <i>Animal Reproduction Science</i> , 2018, 195, 259-265.	1.5	4
74	Aggregation and dispersal based on social cues as a nest-site selection strategy in a resource-defence polygynandry mating system. <i>Behavioral Ecology and Sociobiology</i> , 2013, 67, 685-697.	1.4	3
75	Carotenoid supplementation affects the post-hibernation performance of southern corroboree frogs. <i>Behaviour</i> , 2020, 157, 121-142.	0.8	3
76	Does dietary β^2 -carotene influence ontogenetic colour change in the southern corroboree frog?. <i>Journal of Experimental Biology</i> , 2021, 224, .	1.7	3
77	Do male secondary sexual characters correlate with testis size and sperm length in the small hairy maggot blowfly?. <i>Zoology</i> , 2015, 118, 439-445.	1.2	2
78	Multiple phenotypic traits predict male mating success in a critically endangered frog. <i>Behavioral Ecology and Sociobiology</i> , 2022, 76, 1.	1.4	2
79	Microsatellite markers in the endangered Australian northern corroboree frog, <i>Pseudophryne pengilleyi</i> (Anura: Myobatrachidae) and amplification in other <i>Pseudophryne</i> species. <i>Conservation Genetics</i> , 2008, 9, 1315-1317.	1.5	1
80	Mate Preference Plasticity in a Critically Endangered Frog: Implications for Conservation Breeding. <i>Frontiers in Conservation Science</i> , 2021, 2, .	1.9	1
81	Do dietary carotenoids improve the escape-response performance of southern corroboree frog larvae?. <i>Behaviour</i> , 2020, 157, 987-1006.	0.8	0