

Andrew R Weeks

List of Publications by Year in descending order

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114
papers

7,299
citations

61984

43
h-index

64796

79
g-index

120
all docs

120
docs citations

120
times ranked

7449
citing authors

#	ARTICLE	IF	CITATIONS
1	Conservation genetics as a management tool: The five best-supported paradigms to assist the management of threatened species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	92
2	Australian <i>Bryobia</i> mites (Trombidiformes: Tetranychidae) form a complex of cryptic taxa with unique climatic niches and insecticide responses. <i>Pest Management Science</i> , 2022, , .	3.4	0
3	Multispecies models reveal that eDNA metabarcoding is more sensitive than backpack electrofishing for conducting fish surveys in freshwater streams. <i>Molecular Ecology</i> , 2021, 30, 3111-3126.	3.9	29
4	Accounting for false positive detections in occupancy studies based on environmental DNA: A case study of a threatened freshwater fish (<i>Galaxiella pusilla</i>). <i>Environmental DNA</i> , 2021, 3, 388-397.	5.8	10
5	Genetic mixing for population management: From genetic rescue to provenancing. <i>Evolutionary Applications</i> , 2021, 14, 634-652.	3.1	85
6	Population genetic structure of estuary perch (<i>Percales colonorum</i> Gunther) in south-eastern Australia. <i>Marine and Freshwater Research</i> , 2021, 72, 263.	1.3	2
7	Opportunities and challenges in assessing climate change vulnerability through genomics. <i>Cell</i> , 2021, 184, 1420-1425.	28.9	44
8	Development of an environmental DNA assay for detecting multiple shark species involved in human-shark conflicts in Australia. <i>Environmental DNA</i> , 2021, 3, 940-949.	5.8	4
9	Unbiased population heterozygosity estimates from genome-wide sequence data. <i>Methods in Ecology and Evolution</i> , 2021, 12, 1888-1898.	5.2	55
10	Distribution of <i>Culicoides</i> biting midges (Diptera: Ceratopogonidae) in southern Australia and insight into the <i>Culicoides victoriarum</i> morpho-variants. <i>Austral Entomology</i> , 2021, 60, 525-534.	1.4	0
11	A molecular method for biomonitoring of an exotic plant-pest: Leafmining for environmental DNA. <i>Molecular Ecology</i> , 2021, 30, 4913-4925.	3.9	4
12	Understanding and managing the interactive impacts of growth in urban land use and climate change on freshwater biota: a case study using the platypus (<i>Ornithorhynchus anatinus</i>). <i>Global Change Biology</i> , 2021, , .	9.5	1
13	Population genomics of two invasive mosquitoes (<i>Aedes aegypti</i> and <i>Aedes albopictus</i>) from the Indo-Pacific. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008463.	3.0	30
14	Genetic data and climate niche suitability models highlight the vulnerability of a functionally important plant species from south-eastern Australia. <i>Evolutionary Applications</i> , 2020, 13, 2014-2029.	3.1	10
15	Heterogeneous genetic invasions of three insecticide resistance mutations in Indo-Pacific populations of <i>Aedes aegypti</i> (L.). <i>Molecular Ecology</i> , 2020, 29, 1628-1641.	3.9	34
16	Incursion pathways of the Asian tiger mosquito (<i>Aedes albopictus</i>) into Australia contrast sharply with those of the yellow fever mosquito (<i>Aedes</i>). <i>Evolutionary Applications</i> , 2020, 13, 2014-2029.	3.9	34
17	A field ecologist's guide to environmental DNA sampling in freshwater environments. <i>Australian Zoologist</i> , 2020, 40, 641-651.	1.1	1
18	Environmental DNA sampling as a surveillance tool for cane toad <i>Rhinella marina</i> introductions on offshore islands. <i>Biological Invasions</i> , 2019, 21, 1-6.	2.4	25

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19	Tracking genetic invasions: Genome-wide single nucleotide polymorphisms reveal the source of pyrethroid-resistant <i>Aedes aegypti</i> (yellow fever mosquito) incursions at international ports. <i>Evolutionary Applications</i> , 2019, 12, 1136-1146.	3.1	40
20	The detection and significance of emerging insecticide resistance in mosquitoes. <i>Microbiology Australia</i> , 2018, 39, 80.	0.4	4
21	Optimal survey designs for environmental DNA sampling. <i>Methods in Ecology and Evolution</i> , 2018, 9, 1049-1059.	5.2	53
22	Dealing with false-positive and false-negative errors about species occurrence at multiple levels. <i>Methods in Ecology and Evolution</i> , 2017, 8, 1081-1091.	5.2	105
23	Shifting paradigms in restoration of the world's coral reefs. <i>Global Change Biology</i> , 2017, 23, 3437-3448.	9.5	351
24	Genetic rescue increases fitness and aids rapid recovery of an endangered marsupial population. <i>Nature Communications</i> , 2017, 8, 1071.	12.8	113
25	New resource for population genetics studies on the Australasian intertidal brown alga, <i>Hormosira banksii</i> : isolation and characterization of 15 polymorphic microsatellite loci through next generation DNA sequencing. <i>Journal of Applied Phycology</i> , 2017, 29, 1721-1727.	2.8	6
26	Discovery of metabolic resistance to neonicotinoids in green peach aphids (<i>Myzus persicae</i>) in Australia. <i>Pest Management Science</i> , 2017, 73, 1611-1617.	3.4	44
27	Contrasting patterns of population connectivity between regions in a commercially important mollusc <i>Haliotis rubra</i> : integrating population genetics, genomics and marine LiDAR data. <i>Molecular Ecology</i> , 2016, 25, 3845-3864.	3.9	29
28	Assessing the cost-efficiency of environmental DNA sampling. <i>Methods in Ecology and Evolution</i> , 2016, 7, 1291-1298.	5.2	103
29	Conservation of genetic uniqueness of populations may increase extinction likelihood of endangered species: the case of Australian mammals. <i>Frontiers in Zoology</i> , 2016, 13, 31.	2.0	103
30	Persistence of a <i>Wolbachia</i> infection frequency cline in <i>Drosophila melanogaster</i> and the possible role of reproductive dormancy. <i>Evolution; International Journal of Organic Evolution</i> , 2016, 70, 979-997.	2.3	99
31	A framework for incorporating evolutionary genomics into biodiversity conservation and management. <i>Climate Change Responses</i> , 2015, 2, .	2.6	175
32	Detection of Low-Level <i>Cardinium</i> and <i>Wolbachia</i> Infections in <i>Culicoides</i> . <i>Applied and Environmental Microbiology</i> , 2015, 81, 6177-6188.	3.1	54
33	Environmental DNA sampling is more sensitive than a traditional survey technique for detecting an aquatic invader. <i>Ecological Applications</i> , 2015, 25, 1944-1952.	3.8	135
34	European newts establish in Australia, marking the arrival of a new amphibian order. <i>Biological Invasions</i> , 2015, 17, 31-37.	2.4	19
35	Variation in platypus (<i>Ornithorhynchus anatinus</i>) life-history attributes and population trajectories in urban streams. <i>Australian Journal of Zoology</i> , 2014, 62, 223.	1.0	19
36	A single panmictic population of endemic red crabs, <i>Gecarcoidea natalis</i> , on Christmas Island with high levels of genetic diversity. <i>Conservation Genetics</i> , 2014, 15, 909.	1.5	5

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37	Genome-wide SNPs lead to strong signals of geographic structure and relatedness patterns in the major arbovirus vector, <i>Aedes aegypti</i> . <i>BMC Genomics</i> , 2014, 15, 275.	2.8	157
38	Critically low levels of genetic diversity in fragmented populations of the endangered Glenelg spiny freshwater crayfish <i>Euastacus bispinosus</i> . <i>Endangered Species Research</i> , 2014, 25, 43-55.	2.4	9
39	A species in decline: genetic diversity and conservation of the Victorian eastern barred bandicoot, <i>Perameles gunnii</i> . <i>Conservation Genetics</i> , 2013, 14, 1243-1254.	1.5	13
40	Dispersal patterns and population structuring among platypuses, <i>Ornithorhynchus anatinus</i> , throughout south-eastern Australia. <i>Conservation Genetics</i> , 2013, 14, 837-853.	1.5	14
41	Microsatellite loci and the complete mitochondrial DNA sequence characterized through next generation sequencing and de novo genome assembly for the critically endangered orange-bellied parrot, <i>Neophema chrysogaster</i> . <i>Molecular Biology Reports</i> , 2013, 40, 35-42.	2.3	29
42	Balancing genetic uniqueness and genetic variation in determining conservation and translocation strategies: a comprehensive case study of threatened dwarf galaxias, <i>Galaxiella pusilla</i> (<i>Mack</i>) (<i>Pisces: Galaxiidae</i>). <i>Molecular Ecology</i> , 2013, 22, 1820-1835.	3.9	50
43	The development of 10 novel polymorphic microsatellite markers through next generation sequencing and a preliminary population genetic analysis for the endangered Glenelg spiny crayfish, <i>Euastacus bispinosus</i> . <i>Molecular Biology Reports</i> , 2013, 40, 4415-4419.	2.3	10
44	Population Genetic Structure of <i>Aedes (Stegomyia) aegypti</i> (L.) at a Micro-Spatial Scale in Thailand: Implications for a Dengue Suppression Strategy. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e1913.	3.0	45
45	Rapid Sequential Spread of Two <i>Wolbachia</i> Variants in <i>Drosophila simulans</i> . <i>PLoS Pathogens</i> , 2013, 9, e1003607.	4.7	169
46	Net-avoidance behaviour in platypuses. <i>Australian Mammalogy</i> , 2013, 35, 245.	1.1	13
47	Population genetics of the wheat curl mite (<i>Aceria tosichella</i> Keifer) in Australia: implications for the management of wheat pathogens. <i>Bulletin of Entomological Research</i> , 2012, 102, 199-212.	1.0	18
48	High-Throughput PCR Assays To Monitor <i>Wolbachia</i> Infection in the Dengue Mosquito (<i>Aedes aegypti</i>) and <i>Drosophila simulans</i> . <i>Applied and Environmental Microbiology</i> , 2012, 78, 4740-4743.	3.1	107
49	The current status of pesticide resistance in Australian populations of the redlegged earth mite (<i>Halotydeus destructor</i>). <i>Pest Management Science</i> , 2012, 68, 889-896.	3.4	33
50	Small population size and extremely low levels of genetic diversity in island populations of the platypus, <i>Ornithorhynchus anatinus</i> . <i>Ecology and Evolution</i> , 2012, 2, 844-857.	1.9	83
51	The development of 24 polymorphic microsatellite loci for the endangered barred galaxias, <i>Galaxias fuscus</i> , through next generation DNA sequencing. <i>Conservation Genetics Resources</i> , 2012, 4, 613-616.	0.8	3
52	Complex patterns of local adaptation in heat tolerance in <i>Drosophila simulans</i> from eastern Australia. <i>Journal of Evolutionary Biology</i> , 2012, 25, 1765-1778.	1.7	27
53	Genetic structure and long-distance dispersal in populations of the wingless pest springtail, <i>Sminthurus viridis</i> (Collembola: Sminthuridae). <i>Genetical Research</i> , 2011, 93, 1-12.	0.9	9
54	The distribution, abundance and life cycle of the pest mites <i>Balaustium medicagoense</i> (Prostigmata: Erythraeidae) and <i>Bryobia</i> spp. (Prostigmata: Tetranychidae) in Australia. <i>Australian Journal of Entomology</i> , 2011, 50, 22-36.	1.1	9

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55	Impact of groundcover manipulations within windbreaks on mite pests and their natural enemies. Australian Journal of Entomology, 2011, 50, 37-47.	1.1	20
56	Assessing the benefits and risks of translocations in changing environments: a genetic perspective. Evolutionary Applications, 2011, 4, 709-725.	3.1	661
57	Does <i>Bdellodes lapidaria</i> (Acari: Bdellidae) have a role in biological control of the springtail pest, <i>Sminthurus viridis</i> (Collembola: Sminthuridae) in south-eastern Australia?. Biological Control, 2011, 58, 222-229.	3.0	17
58	Genetic Markers Indicate a New Species Complex of Emerging Pest Mites in Australian Grains. Annals of the Entomological Society of America, 2011, 104, 402-415.	2.5	9
59	A high incidence of parthenogenesis in agricultural pests. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 799-800.	2.6	1
60	Dynamics of the "Popcorn" <i>Wolbachia</i> Infection in Outbred <i>Aedes aegypti</i> Informs Prospects for Mosquito Vector Control. Genetics, 2011, 187, 583-595.	2.9	162
61	Changes in the Genetic Structure of <i>Aedes aegypti</i> (Diptera: Culicidae) Populations in Queensland, Australia, Across Two Seasons: Implications for Potential Mosquito Releases. Journal of Medical Entomology, 2011, 48, 999-1007.	1.8	48
62	Population Dynamics and Diapause Response of the Springtail Pest <i>Sminthurus viridis</i> (Collembola: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.8	11
63	Survival and reproduction of the pest mites <i>Balaustium medicagoense</i> and <i>Bryobia</i> spp. on winter grain crops. Experimental and Applied Acarology, 2010, 52, 141-153.	1.6	8
64	High levels of genetic divergence between Tasmanian and Victorian platypuses, <i>Ornithorhynchus anatinus</i> , as revealed by microsatellite loci. Conservation Genetics, 2010, 11, 319-323.	1.5	10
65	Genetic variation among <i>Helicoverpa armigera</i> populations as assessed by microsatellites: a cautionary tale about accurate allele scoring. Bulletin of Entomological Research, 2010, 100, 445-450.	1.0	14
66	Monitoring long-term evolutionary changes following <i>Wolbachia</i> introduction into a novel host: the <i>Wolbachia popcorn</i> infection in <i>Drosophila simulans</i> . Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 2059-2068.	2.6	40
67	Patterns of Genetic Variation and Host Adaptation in an Invasive Population of <i>Rhopalosiphum padi</i> (Hemiptera: Aphididae). Annals of the Entomological Society of America, 2010, 103, 886-897.	2.5	12
68	Genetic Structure of <i>Aedes aegypti</i> in Australia and Vietnam Revealed by Microsatellite and Exon Primed Intron Crossing Markers Suggests Feasibility of Local Control Options. Journal of Medical Entomology, 2009, 46, 1074-1083.	1.8	42
69	Molecular markers indicate that the wheat curl mite, <i>Aceria tosichella</i> Keifer, may represent a species complex in Australia. Bulletin of Entomological Research, 2009, 99, 479-486.	1.0	70
70	THE <i>POPCORN</i> <i>WOLBACHIA</i> INFECTION OF <i>DROSOPHILA MELANOGASTER</i> : CAN SELECTION ALTER <i>WOLBACHIA</i> LONGEVITY EFFECTS?. Evolution; International Journal of Organic Evolution, 2009, 63, 2648-2657.	2.3	30
71	The tolerance of the lucerne flea, <i>Sminthurus viridis</i> (Collembola: Sminthuridae), to currently registered pesticides in Australia. Australian Journal of Entomology, 2009, 48, 241-246.	1.1	11
72	Permanent Genetic Resources added to Molecular Ecology Resources Database 1 May 2009"31 July 2009. Molecular Ecology Resources, 2009, 9, 1460-1466.	4.8	128

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73	Molecular and Morphometric Data Indicate a New Species of the Aphid Genus <i>Rhopalosiphum</i> (Hemiptera: Aphididae). <i>Annals of the Entomological Society of America</i> , 2009, 102, 914-924.	2.5	13
74	Latitudinal and cold-tolerance variation associate with DNA repeat-number variation in the <i>hsr-omega</i> RNA gene of <i>Drosophila melanogaster</i> . <i>Heredity</i> , 2008, 101, 260-270.	2.6	26
75	Investigating latitudinal clines for life history and stress resistance traits in <i>Drosophila simulans</i> from eastern Australia. <i>Journal of Evolutionary Biology</i> , 2008, 21, 1470-1479.	1.7	83
76	Rapid loss of genetic variation in an endangered possum. <i>Biology Letters</i> , 2008, 4, 134-138.	2.3	29
77	Frequency-dependent selection maintains clonal diversity in an asexual organism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17872-17877.	7.1	31
78	A high incidence of parthenogenesis in agricultural pests. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 2473-2481.	2.6	49
79	Effectiveness of spring spraying targeting diapause egg production for controlling redlegged earth mites and other pests in pasture. <i>Australian Journal of Experimental Agriculture</i> , 2008, 48, 1118.	1.0	14
80	The changing status of invertebrate pests and the future of pest management in the Australian grains industry. <i>Australian Journal of Experimental Agriculture</i> , 2008, 48, 1481.	1.0	54
81	Emerging pest mites of grains (<i>Balaustium medicagoense</i> and <i>Bryobia</i> sp.) show high levels of tolerance to currently registered pesticides. <i>Australian Journal of Experimental Agriculture</i> , 2008, 48, 1126.	1.0	18
82	Pests of germinating grain crops in southern Australia: an overview of their biology and management options. <i>Australian Journal of Experimental Agriculture</i> , 2008, 48, 1560.	1.0	35
83	From Parasite to Mutualist: Rapid Evolution of <i>Wolbachia</i> in Natural Populations of <i>Drosophila</i> . <i>PLoS Biology</i> , 2007, 5, e114.	5.6	375
84	Free-living mesostigmatic mites in Australia: their roles in biological control and bioindication. <i>Australian Journal of Experimental Agriculture</i> , 2007, 47, 460.	1.0	54
85	Robust clines and robust sampling: a reply to Kyriacou et al.. <i>Journal of Evolutionary Biology</i> , 2007, 20, 1652-1654.	1.7	5
86	Antagonistic selection between adult thorax and wing size in field released <i>Drosophila melanogaster</i> independent of thermal conditions. <i>Journal of Evolutionary Biology</i> , 2007, 20, 2219-2227.	1.7	49
87	Identification of aphid species (Hemiptera: Aphididae: Aphidinae) using a rapid polymerase chain reaction restriction fragment length polymorphism method based on the <i>cytochrome oxidase</i> subunit I gene. <i>Australian Journal of Entomology</i> , 2007, 46, 305-312.	1.1	30
88	Is there genetic structure in populations of <i>Helicoverpa armigera</i> from Australia?. <i>Entomologia Experimentalis Et Applicata</i> , 2007, 122, 253-263.	1.4	48
89	Climatic selection on genes and traits after a 100-year-old invasion: a critical look at the temperate-tropical clines in <i>Drosophila melanogaster</i> from eastern Australia. <i>Genetica</i> , 2007, 129, 133-147.	1.1	246
90	Shelterbelts in agricultural landscapes suppress invertebrate pests. <i>Australian Journal of Experimental Agriculture</i> , 2006, 46, 1379.	1.0	45

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91	An independent non-linear latitudinal cline for the sn-glycerol-3-phosphate (β -Gpdh) polymorphism of <i>Drosophila melanogaster</i> from eastern Australia. <i>Genetical Research</i> , 2006, 87, 13-21.	0.9	10
92	In search of clinal variation in the period and clock timing genes in Australian <i>Drosophila melanogaster</i> populations. <i>Journal of Evolutionary Biology</i> , 2006, 19, 551-557.	1.7	29
93	High levels of variation despite genetic fragmentation in populations of the endangered mountain pygmy-possum, <i>Burramys parvus</i> , in alpine Australia. <i>Molecular Ecology</i> , 2006, 16, 75-87.	3.9	46
94	Isolation and characterization of microsatellite loci from the Australian endemic mountain pygmy-possum, <i>Burramys parvus</i> Broom. <i>Molecular Ecology Notes</i> , 2005, 5, 395-397.	1.7	9
95	Isolation and characterization of microsatellite loci in the avocado thrips <i>Scirtothrips perseae</i> (Thysanoptera: Thripidae). <i>Molecular Ecology Notes</i> , 2005, 5, 644-646.	1.7	7
96	The latitudinal cline in the In(3R)Payne inversion polymorphism has shifted in the last 20 years in Australian <i>Drosophila melanogaster</i> populations. <i>Molecular Ecology</i> , 2005, 14, 851-858.	3.9	105
97	Microsatellites reveal a lack of structure in Australian populations of the diamondback moth, <i>Plutella xylostella</i> (L.). <i>Molecular Ecology</i> , 2005, 15, 107-118.	3.9	101
98	A Rapid Shift in a Classic Clinal Pattern in <i>Drosophila</i> Reflecting Climate Change. <i>Science</i> , 2005, 308, 691-693.	12.6	352
99	Parthenogenesis in the <i>Aspidiotus nerii</i> Complex (Hemiptera: Diaspididae): A Single Origin of a Worldwide, Polyphagous Lineage Associated with <i>Cardinium</i> Bacteria. <i>Annals of the Entomological Society of America</i> , 2005, 98, 629-635.	2.5	70
100	Increased fecundity associated with infection by a Cytophaga "like intracellular bacterium in the predatory mite, <i>Metaseiulus occidentalis</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, S193-5.	2.6	67
101	Biology, ecology and control of the <i>Penthaleus</i> species complex (Acari: Penthaleidae). <i>Experimental and Applied Acarology</i> , 2004, 34, 211-237.	1.6	43
102	Chromosomal inversion polymorphisms and adaptation. <i>Trends in Ecology and Evolution</i> , 2004, 19, 482-488.	8.7	217
103	Incidence of a new sex "ratio" distorting endosymbiotic bacterium among arthropods. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 1857-1865.	2.6	273
104	A New Bacterium From The Cytophaga-flavobacterium- Bacteroides Phylum That Causes Sex-ratio Distortion. <i>Contemporary Topics in Entomology Series</i> , 2003, , 165-176.	0.3	28
105	<i>Wolbachia</i> dynamics and host effects: what has (and has not) been demonstrated?. <i>Trends in Ecology and Evolution</i> , 2002, 17, 257-262.	8.7	135
106	Dissecting adaptive clinal variation: markers, inversions and size/stress associations in <i>Drosophila melanogaster</i> from a central field population. <i>Ecology Letters</i> , 2002, 5, 756-763.	6.4	103
107	GEOGRAPHIC PATTERNS OF CLONAL DIVERSITY IN THE EARTH MITE SPECIES <i>PENTHALEUS MAJOR</i> WITH PARTICULAR EMPHASIS ON SPECIES MARGINS. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 1160-1167.	2.3	17
108	A Mite Species That Consists Entirely of Haploid Females. <i>Science</i> , 2001, 292, 2479-2482.	12.6	258

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109	AFLP fingerprinting for assessing intraspecific variation and genome mapping in mites. <i>Experimental and Applied Acarology</i> , 2000, 24, 775-793.	1.6	48
110	The biology of <i>Penthaleus</i> species in southeastern Australia. <i>Entomologia Experimentalis Et Applicata</i> , 1999, 92, 179-189.	1.4	33
111	Intense Selection of Mite Clones in a Heterogeneous Environment. <i>Evolution; International Journal of Organic Evolution</i> , 1998, 52, 1325.	2.3	28
112	INTENSE SELECTION OF MITE CLONES IN A HETEROGENEOUS ENVIRONMENT. <i>Evolution; International Journal of Organic Evolution</i> , 1998, 52, 1325-1333.	2.3	40
113	Genetic structure of <i>Halotydeus destructor</i> and <i>Penthaleus major</i> populations in Victoria (Acari: Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.6	60
114	Coexistence conservation: Reconciling threatened species and invasive predators through adaptive ecological and evolutionary approaches. <i>Conservation Science and Practice</i> , 0, , .	2.0	9