Craig R. Williams

List of Publications by Citations

100 papers	2,749 citations	28 h-index	49 g-index
105 ext. papers	3,115 ext. citations	3.1 avg, IF	4.95 L-index

#	Paper	IF	Citations
100	Integrating biophysical models and evolutionary theory to predict climatic impacts on species ranges: the dengue mosquito Aedes aegypti in Australia. *Functional Ecology*, **2009**, 23, 528-538	5.6	302
99	Effect of season and temperature on mortality in amphibians due to chytridiomycosis. *Australian Veterinary Journal*, **2004**, 82, 434-9	1.2	250
98	Mark-release-recapture study to measure dispersal of the mosquito Aedes aegypti in Cairns, Queensland, Australia. *Medical and Veterinary Entomology*, **2005**, 19, 451-7	2.4	129
97	Field efficacy of the BG-Sentinel compared with CDC Backpack Aspirators and CO2-baited EVS traps for collection of adult Aedes aegypti in Cairns, Queensland, Australia. *Journal of the American Mosquito Control Association*, **2006**, 22, 296-300	0.9	124
96	Discovery of a widespread infestation of Aedes albopictus in the Torres Strait, Australia. *Journal of the American Mosquito Control Association*, **2006**, 22, 358-65	0.9	87
95	Frequency of infectious gastrointestinal illness in Australia, 2002: regional, seasonal and demographic variation. *Epidemiology and Infection*, **2006**, 134, 111-8	4.3	82
94	The use of transcriptional profiles to predict adult mosquito age under field conditions. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 18060-5	11.5	80
93	Population-attributable risk estimates for risk factors associated with Campylobacter infection, australia. *Emerging Infectious Diseases*, **2008**, 14, 895-901	10.2	77
92	Increased locomotor activity and metabolism of Aedes aegypti infected with a life-shortening strain of Wolbachia pipientis. *Journal of Experimental Biology*, **2009**, 212, 1436-41	3	76
91	Association between dengue fever incidence and meteorological factors in Guangzhou, China, 2005-2014. *Environmental Research*, **2017**, 153, 17-26	7.9	68
90	The development of predictive tools for pre-emptive dengue vector control: a study of Aedes aegypti abundance and meteorological variables in North Queensland, Australia. *Tropical Medicine and International Health*, **2010**, 15, 1190-7	2.3	57
89	A lethal ovitrap-based mass trapping scheme for dengue control in Australia: II. Impact on populations of the mosquito Aedes aegypti. *Medical and Veterinary Entomology*, **2009**, 23, 303-16	2.4	54
88	Aedes aegypti population sampling using BG-Sentinel traps in north Queensland Australia: statistical considerations for trap deployment and sampling strategy. *Journal of Medical Entomology*, **2007**, 44, 345-50	2.2	48
87	Antipredator Mechanisms of Australian Frogs. *Journal of Herpetology*, **2000**, 34, 431	1.1	47
86	Urban-associated diseases: Candidate diseases, environmental risk factors, and a path forward. *Environment International*, **2019**, 133, 105187	12.9	46
85	A lethal ovitrap-based mass trapping scheme for dengue control in Australia: I. Public acceptability and performance of lethal ovitraps. *Medical and Veterinary Entomology*, **2009**, 23, 295-302	2.4	37
84	Infectious Diseases, Urbanization and Climate Change: Challenges in Future China. *International Journal of Environmental Research and Public Health*, **2015**, 12, 11025-36	4.6	36

83	Transmission of haemorrhagic fever with renal syndrome in china and the role of climate factors: a review. *International Journal of Infectious Diseases*, **2015**, 33, 212-8	10.5	35
82	Converting Mosquito Surveillance to Arbovirus Surveillance with Honey-Baited Nucleic Acid Preservation Cards. *Vector-Borne and Zoonotic Diseases*, **2015**, 15, 397-403	2.4	35
81	Using Wolbachia-based release for suppression of Aedes mosquitoes: insights from genetic data and population simulations **2014**, 24, 1226-34		34
80	Rapid Estimation of Aedes aegypti Population Size Using Simulation Modeling, with a Novel Approach to Calibration and Field Validation. *Journal of Medical Entomology*, **2008**, 45, 1173-1179	2.2	34
79	Laboratory and field assessment of some kairomone blends for host-seeking Aedes aegypti. *Journal of the American Mosquito Control Association*, **2006**, 22, 641-7	0.9	34
78	Intraspecific variation in desiccation survival time of Aedes aegypti (L.) mosquito eggs of Australian origin. *Journal of Vector Ecology*, **2015**, 40, 292-300	1.5	33
77	Predicting the age of mosquitoes using transcriptional profiles. *Nature Protocols*, **2007**, 2, 2796-806	18.8	31
76	Epidemiology of dengue in a high-income country: a case study in Queensland, Australia. *Parasites and Vectors*, **2014**, 7, 379	4	30
75	The extinction of dengue through natural vulnerability of its vectors. *PLoS Neglected Tropical Diseases*, **2010**, 4, e922	4.8	30
74	Impact of a bifenthrin-treated lethal ovitrap on Aedes aegypti oviposition and mortality in north Queensland, Australia. *Journal of Medical Entomology*, **2007**, 44, 256-62	2.2	29
73	Rapid estimation of Aedes aegypti population size using simulation modeling, with a novel approach to calibration and field validation. *Journal of Medical Entomology*, **2008**, 45, 1173-9	2.2	28
72	Productivity and population density estimates of the dengue vector mosquito Aedes aegypti (Stegomyia aegypti) in Australia. *Medical and Veterinary Entomology*, **2013**, 27, 313-22	2.4	26
71	Optimizing ovitrap use for Aedes aegypti in Cairns, Queensland, Australia: effects of some abiotic factors on field efficacy. *Journal of the American Mosquito Control Association*, **2006**, 22, 635-40	0.9	26
70	Environmental and entomological factors determining Ross River virus activity in the River Murray Valley of South Australia. *Australian and New Zealand Journal of Public Health*, **2009**, 33, 284-8	2.3	25
69	Intraspecific variation in odor-mediated host preference of the mosquito Culex annulirostris. *Journal of Chemical Ecology*, **2003**, 29, 1889-903	2.7	24
68	Perceptions of capacity for infectious disease control and prevention to meet the challenges of dengue fever in the face of climate change: A survey among CDC staff in Guangdong Province, China. *Environmental Research*, **2016**, 148, 295-302	7.9	24
67	A biodegradable lethal ovitrap for control of container-breeding Aedes. *Journal of the American Mosquito Control Association*, **2008**, 24, 47-53	0.9	23
66	Determining the spatial autocorrelation of dengue vector populations: influences of mosquito sampling method, covariables, and vector control. *Journal of Vector Ecology*, **2014**, 39, 153-63	1.5	22

65	Climate change and infectious diseases in Australia: future prospects, adaptation options, and research priorities. *Asia-Pacific Journal of Public Health*, **2011**, 23, 54S-66	2	22
64	Citizen science and smartphone e-entomology enables low-cost upscaling of mosquito surveillance. *Science of the Total Environment*, **2020**, 704, 135349	10.2	22
63	Public Health Responses to and Challenges for the Control of Dengue Transmission in High-Income Countries: Four Case Studies. *PLoS Neglected Tropical Diseases*, **2016**, 10, e0004943	4.8	22
62	Impact of meteorological factors on hemorrhagic fever with renal syndrome in 19 cities in China, 2005-2014. *Science of the Total Environment*, **2018**, 636, 1249-1256	10.2	21
61	Weather-driven variation in dengue activity in Australia examined using a process-based modeling approach. *American Journal of Tropical Medicine and Hygiene*, **2013**, 88, 65-72	3.2	21
60	Evolution of morphology and locomotor performance in anurans: relationships with microhabitat diversification. *Journal of Evolutionary Biology*, **2018**, 31, 371-381	2.3	20
59	Dengue vector surveillance programs: a review of methodological diversity in some endemic and epidemic countries. *Asia-Pacific Journal of Public Health*, **2011**, 23, 827-42	2	20
58	Modelling the ecology of the coastal mosquitoes Aedes vigilax and Aedes camptorhynchus at Port Pirie, South Australia. *Medical and Veterinary Entomology*, **2009**, 23, 85-91	2.4	20
57	Projections of increased and decreased dengue incidence under climate change. *Epidemiology and Infection*, **2016**, 144, 3091-3100	4.3	19
56	Bionomic response of Aedes aegypti to two future climate change scenarios in far north Queensland, Australia: implications for dengue outbreaks. *Parasites and Vectors*, **2014**, 7, 447	4	19
55	Mosquito repellents in frog skin. *Biology Letters*, **2006**, 2, 242-5	3.6	19
54	Development and evaluation of a species diagnostic polymerase chain reaction-restriction fragment-length polymorphism procedure for cryptic members of the Culex sitiens (Diptera: Culicidae) subgroup in Australia and the southwest Pacific. *Journal of Medical Entomology*, **2002**, 39, 362-9	2.2	19
53	Diversity and seasonal succession of coastal mosquitoes (Diptera: Culicidae) in the northern Adelaide region of South Australia. *Australian Journal of Entomology*, **2009**, 48, 107-112		18
52	Microhabitats and canopy cover moderate high summer temperatures in a fragmented Mediterranean landscape. *PLoS ONE*, **2017**, 12, e0183106	3.7	18
51	Mating, ovariole number and sperm production of the dengue vector mosquito Aedes aegypti (L.) in Australia: broad thermal optima provide the capacity for survival in a changing climate. *Physiological Entomology*, **2012**, 37, 136-144	1.9	17
50	The Usual Suspects: Comparison of the Relative Roles of Potential Urban Chikungunya Virus Vectors in Australia. *PLoS ONE*, **2015**, 10, e0134975	3.7	17
49	Mosquito communities with trap height and urban-rural gradient in Adelaide, South Australia: implications for disease vector surveillance. *Journal of Vector Ecology*, **2014**, 39, 48-55	1.5	17
48	Association between malaria incidence and meteorological factors: a multi-location study in China, 2005-2012. *Epidemiology and Infection*, **2018**, 146, 89-99	4.3	15

47	Geographic variation in attraction to human odor compounds by Aedes aegypti mosquitoes (Diptera: Culicidae): a laboratory study. *Journal of Chemical Ecology*, **2006**, 32, 1625-34	2.7	14
46	Field evaluation of New Mountain Sandalwood Mosquito Sticks and New Mountain Sandalwood Botanical Repellent against mosquitoes in North Queensland, Australia. *Journal of the American Mosquito Control Association*, **2006**, 22, 158-60	0.9	13
45	Regional Comparison of Mosquito Bloodmeals in South Australia: Implications for Ross River Virus Ecology. *Journal of Medical Entomology*, **2016**, 53, 902-910	2.2	13
44	Mosquito traps for urban surveillance: collection efficacy and potential for use by citizen scientists. *Journal of Vector Ecology*, **2018**, 43, 98-103	1.5	13
43	Parasitism of mosquitoes (Diptera: Culicidae) by larval mites (Acari: Parasitengona) in Adelaide, South Australia. *Australian Journal of Entomology*, **2002**, 41, 161-163		12
42	Potential distribution of the Asian disease vector Culex gelidus Theobald (Diptera: Culicidae) in Australia and New Zealand: a prediction based on climate suitability. *Australian Journal of Entomology*, **2005**, 44, 425-430		11
41	Ross River Virus and the Necessity of Multiscale, Eco-epidemiological Analyses. *Journal of Infectious Diseases*, **2018**, 217, 807-815	7	10
40	Desiccation survival time for eggs of a widespread and invasive Australian mosquito species, Aedes (Finlaya) notoscriptus (Skuse). *Journal of Vector Ecology*, **2016**, 41, 55-62	1.5	10
39	Testing the impact of virus importation rates and future climate change on dengue activity in Malaysia using a mechanistic entomology and disease model. *Epidemiology and Infection*, **2015**, 143, 2856-64	4.2	10
38	Daily patterns of locomotor and sugar-feeding activity of the mosquito Culex annulirostris from geographically isolated populations. *Physiological Entomology*, **2005**, 30, 309-316	1.9	10
37	The Allee effect in site choice behaviour of egg-laying dengue vector mosquitoes. *Tropical Biomedicine*, **2008**, 25, 140-4	0.5	10
36	Growth and development performance of the ubiquitous urban mosquito Aedes notoscriptus (Diptera: Culicidae) in Australia varies with water type and temperature. *Australian Journal of Entomology*, **2011**, 50, 195-199		9
35	Eggs of the Australian saltmarsh mosquito, Aedes camptorhynchus, survive for long periods and hatch in instalments: implications for biosecurity in New Zealand. *Medical and Veterinary Entomology*, **2011**, 25, 70-6	2.4	9
34	The Asian Tiger Mosquito (Aedes Albopictus) Invasion into Australia: A Review of Likely Geographic Range and Changes to Vector-Borne Disease Risk. *Transactions of the Royal Society of South Australia*, **2012**, 136, 128-136	0.2	9
33	Field Worker Evaluation of Dengue Vector Surveillance Methods: Factors That Determine Perceived Ease, Difficulty, Value, and Time Effectiveness in Australia and Malaysia. *Asia-Pacific Journal of Public Health*, **2015**, 27, 705-14	2	8
32	Spatial heterogeneity in oviposition preference of the mosquito Aedes notoscriptus (Skuse) (Diptera: Culicidae) in Adelaide, South Australia. *Australian Journal of Entomology*, **1999**, 38, 354-358		8
31	Effects of Cohabitation on the Population Performance and Survivorship of the Invasive Mosquito Aedes albopictus and the Resident Mosquito Aedes notoscriptus (Diptera: Culicidae) in Australia. *Journal of Medical Entomology*, **2015**, 52, 375-85	2.2	7
30	A critical review of freshwater crayfish as amphibian predators: capable consumers of toxic prey?. *Toxicon*, **2014**, 82, 9-17	2.8	7

29	Floral visitation in the Australian native shrub genus Acrotriche R.Br (Ericaceae): an abundance of ants (Formicidae). *Australian Journal of Entomology*, **2011**, 50, 130-138		7
28	Evolution of Aposematic Behavior and Coloration in the Australian Frog Genus Uperoleia. *Journal of Herpetology*, **1998**, 32, 136	1.1	7
27	Some cautions in the use of citizen science: a case study of urban insect collection. *Transactions of the Royal Society of South Australia*, **2017**, 141, 57-69	0.2	6
26	Improving public health intervention for mosquito-borne disease: the value of geovisualization using source of infection and LandScan data. *Epidemiology and Infection*, **2016**, 144, 3108-3119	4.3	6
25	Differentiation of Aedes aegypti and Aedes notoscriptus (Diptera: Culicidae) eggs using scanning electron microscopy. *Arthropod Structure and Development*, **2016**, 45, 273-80	1.8	6
24	Predation of two common native frog species (Litoria ewingi and Crinia signifera) by freshwater invertebrates. *Australian Journal of Zoology*, **2014**, 62, 483	0.5	6
23	Experts' Perceptions on China's Capacity to Manage Emerging and Re-emerging Zoonotic Diseases in an Era of Climate Change. *Zoonoses and Public Health*, **2017**, 64, 527-536	2.9	5
22	Perceptions of malaria control and prevention in an era of climate change: a cross-sectional survey among CDC staff in China. *Malaria Journal*, **2017**, 16, 136	3.6	5
21	Health professionals' perceptions of hemorrhagic fever with renal syndrome and climate change in China. *Global and Planetary Change*, **2017**, 152, 12-18	4.2	5
20	Adult mosquito trap sensitivity for detecting exotic mosquito incursions and eradication: a study using EVS traps and the Australian southern saltmarsh mosquito, Aedes camptorhynchus. *Journal of Vector Ecology*, **2012**, 37, 110-6	1.5	5
19	Larval development rate of the mosquitoes Culex quinquefasciatus and Aedes aegypti (Diptera: Culicidae) varies between clutches: implications for population ecology. *Australian Journal of Entomology*, **2012**, 51, 22-27		5
18	Epidemic potential of Zika virus in Australia: implications for blood transfusion safety. *Transfusion*, **2019**, 59, 648-658	2.9	5
17	Functional and physiological resistance of crayfish to amphibian toxins: tetrodotoxin resistance in the white river crayfish (Procambarus acutus). *Canadian Journal of Zoology*, **2014**, 92, 939-945	1.5	4
16	Inter-population mating success in Australian dengue vector mosquitoes: effects of laboratory colonization and implications for the spread of transgenics. *Journal of Vector Ecology*, **2013**, 38, 111-9	1.5	4
15	Mosquitoes (Diptera: Culicidae) Of the Spencer Gulf Coast of South Australia. *Transactions of the Royal Society of South Australia*, **2009**, 133, 51-56	0.2	4
14	Estimation of mosquito-borne and sexual transmission of Zika virus in Australia: Risks to blood transfusion safety. *PLoS Neglected Tropical Diseases*, **2020**, 14, e0008438	4.8	4
13	Flowering timing prediction in Australian native understorey species (Acrotriche R.Br Ericaceae) using meteorological data. *International Journal of Biometeorology*, **2012**, 56, 95-105	3.7	2
12	Vector-borne disease in South Australia□ future climate. *Transactions of the Royal Society of South Australia*, **2015**, 139, 121-129	0.2	2

List of Publications

11	Timing of host-seeking behaviour of the mosquitoes Anopheles annulipes sensu lato Walker and Coquillettidia linealis (Skuse) (Diptera: Culicidae) in the Murray River Valley, South Australia. *Australian Journal of Entomology*, **2005**, 44, 110-112		2
10	Salinity Tolerance and Brackish Habitat Utilization in the Common Australian Frog Crinia signifera. *Journal of Herpetology*, **2020**, 54, 161	1.1	2
9	Newts are Toxic, but They were Pressured into it: Butch Brodie Studies of Co-Evolutionary Arms Races. *Transactions of the Royal Society of South Australia*, **2013**, 137, 96-100	0.2	1
8	Submission on the Draft Murray-Darling Basin Plan. *Transactions of the Royal Society of South Australia*, **2013**, 137, 135-137	0.2	1
7	Dengue control in the context of climate change: Views from health professionals in different geographic regions of China. *Journal of Infection and Public Health*, **2019**, 12, 388-394	7.4	1
6	Development of a mechanistic dengue simulation model for Guangzhou. *Epidemiology and Infection* , **2019**, 147, e125	4.3	0
5	The climate change SA symposium 2013: a synthesis. *Transactions of the Royal Society of South Australia*, **2015**, 139, 3-8	0.2	0
4	Past and future epidemic potential of chikungunya virus in Australia. *PLoS Neglected Tropical Diseases*, **2021**, 15, e0009963	4.8	0
3	Citizen Science Mosquito Surveillance by Ad Hoc Observation Using the iNaturalist Platform. *International Journal of Environmental Research and Public Health*, **2022**, 19, 6337	4.6	0
2	Advances in the study of River Murray ecology and the legacy of Keith Forbes Walker (1946–2016). *Transactions of the Royal Society of South Australia*, **2017**, 141, 87-91	0.2	
1	Indiscriminate feeding by an alien population of the spotted-thighed frog (Litoria cyclorhyncha) in southern Australia and potential impacts on native biodiversity. *Australian Journal of Zoology*, **2019**, 67, 59	0.5	