Craig R. Williams

List of Publications by Year
in descending order

104 papers	3,535 citations	147566 31 h-index	155451 55 g-index
105 all docs	105 docs citations	105 times ranked	3958 citing authors

#	Article	IF	Citations
1	Integrating biophysical models and evolutionary theory to predict climatic impacts on speciesâ€™ ranges: the dengue mosquitoAedes aegyptiin Australia. Functional Ecology, 2009, 23, 528-538.	1.7	365
2	Effect of season and temperature on mortality in amphibians due to chytridiomycosis. Australian Veterinary Journal, 2004, 82, 434-439.	0.5	322
3	Mark-release-recapture study to measure dispersal of the mosquito Aedes aegypti in Cairns, Queensland, Australia. Medical and Veterinary Entomology, 2005, 19, 451-457.	0.7	159
4	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.	0.2	144
5	Discovery of a Widespread Infestation of Aedes albopictus in the Torres Strait, Australia. Journal of the American Mosquito Control Association, 2006, 22, 358-365.	0.2	104
6	Association between dengue fever incidence and meteorological factors in Guangzhou, China, 2005â€“2014. Environmental Research, 2017, 153, 17-26.	3.7	100
7	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, 18060-18065.	3.3	99
8	Frequency of infectious gastrointestinal illness in Australia, 2002: regional, seasonal and demographic variation. Epidemiology and Infection, 2006, 134, 111-118.	1.0	97
9	Increased locomotor activity and metabolism ofAedes aegyptiinfected with a life-shortening strain ofWolbachia pipientis. Journal of Experimental Biology, 2009, 212, 1436-1441.	0.8	97
10	Population-Attributable Risk Estimates for Risk Factors Associated withCampylobacterInfection, Australia. Emerging Infectious Diseases, 2008, 14, 895-901.	2.0	84
11	Urban-associated diseases: Candidate diseases, environmental risk factors, and a path forward. Environment International, 2019, 133, 105187.	4.8	83
12	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, 1190-1197.	1.0	66
13	A lethal ovitrapâ€based mass trapping scheme for dengue control in Australia: II. Impact on populations of the mosquito Aedes aegypti. Medical and Veterinary Entomology, 2009, 23, 303-316.	0.7	63
14	Antipredator Mechanisms of Australian Frogs. Journal of Herpetology, 2000, 34, 431.	0.2	61
15	Infectious Diseases, Urbanization and Climate Change: Challenges in Future China. International Journal of Environmental Research and Public Health, 2015, 12, 11025-11036.	1.2	58
16	<I>Aedes aegypti</I> Population Sampling Using BG-Sentinel Traps in North Queensland Australia: Statistical Considerations for Trap Deployment and Sampling Strategy. Journal of Medical Entomology, 2007, 44, 345-350.	0.9	54
17	Intraspecific variation in desiccation survival time of Aedes aegypti (L.) mosquito eggs of Australian origin. Journal of Vector Ecology, 2015, 40, 292-300.	0.5	53
18	Converting Mosquito Surveillance to Arbovirus Surveillance with Honey-Baited Nucleic Acid Preservation Cards. Vector-Borne and Zoonotic Diseases, 2015, 15, 397-403.	0.6	53

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19	Citizen science and smartphone e-entomology enables low-cost upscaling of mosquito surveillance. Science of the Total Environment, 2020, 704, 135349.	3.9	47
20	A lethal ovitrapâ€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.	0.7	44
21	Transmission of Haemorrhagic Fever with Renal Syndrome in China and the Role of Climate Factors: A Review. International Journal of Infectious Diseases, 2015, 33, 212-218.	1.5	43
22	LABORATORY AND FIELD ASSESSMENT OF SOME KAIROMONE BLENDS FOR HOST-SEEKING AEDES AEGYPTI1. Journal of the American Mosquito Control Association, 2006, 22, 641-647.	0.2	41
23	Using Wolbachiaâ€based release for suppression of Aedes mosquitoes: insights from genetic data and population simulations. Ecological Applications, 2014, 24, 1226-1234.	1.8	41
24	Evolution of morphology and locomotor performance in anurans: relationships with microhabitat diversification. Journal of Evolutionary Biology, 2018, 31, 371-381.	0.8	41
25	Impact of meteorological factors on hemorrhagic fever with renal syndrome in 19 cities in China, 2005â€“2014. Science of the Total Environment, 2018, 636, 1249-1256.	3.9	40
26	Predicting the age of mosquitoes using transcriptional profiles. Nature Protocols, 2007, 2, 2796-2806.	5.5	38
27	Impact of a Bifenthrin-Treated Lethal Ovitrap on <I>Aedes aegypti</I> Oviposition and Mortality in North Queensland, Australia. Journal of Medical Entomology, 2007, 44, 256-262.	0.9	36
28	Epidemiology of dengue in a high-income country: a case study in Queensland, Australia. Parasites and Vectors, 2014, 7, 379.	1.0	36
29	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.	0.9	35
30	The Extinction of Dengue through Natural Vulnerability of Its Vectors. PLoS Neglected Tropical Diseases, 2010, 4, e922.	1.3	35
31	Microhabitats and canopy cover moderate high summer temperatures in a fragmented Mediterranean landscape. PLoS ONE, 2017, 12, e0183106.	1.1	35
32	Intraspecific variation in odor-mediated host preference of the mosquito Culex annulirostris. Journal of Chemical Ecology, 2003, 29, 1889-1903.	0.9	34
33	Rapid Estimation of <I>Aedes aegypti</I> Population Size Using Simulation Modeling, with a Novel Approach to Calibration and Field Validation. Journal of Medical Entomology, 2008, 45, 1173-1179.	0.9	33
34	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, 284-288.	0.8	32
35	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.	3.7	31
36	A Biodegradable Lethal Ovitrap for Control of Container-Breeding Aedes. Journal of the American Mosquito Control Association, 2008, 24, 47-53.	0.2	30

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37	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.	1.3	29
38	Climate Change and Infectious Diseases in Australia: Future Prospects, Adaptation Options, and Research Priorities. Asia-Pacific Journal of Public Health, 2011, 23, 54S-66S.	0.4	28
39	Productivity and population density estimates of the dengue vector mosquito Aedes aegypti (Stegomyia aegypti) in Australia. Medical and Veterinary Entomology, 2013, 27, 313-322.	0.7	28
40	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, 635-640.	0.2	27
41	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.	0.7	27
42	Dengue Vector Surveillance Programs. Asia-Pacific Journal of Public Health, 2011, 23, 827-842.	0.4	26
43	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.	0.6	25
44	Determining the spatial autocorrelation of dengue vector populations: influences of mosquito sampling method, covariables, and vector control. Journal of Vector Ecology, 2014, 39, 153-163.	0.5	25
45	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.	1.0	25
46	Mosquito repellents in frog skin. Biology Letters, 2006, 2, 242-245.	1.0	24
47	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.	0.5	24
48	Projections of increased and decreased dengue incidence under climate change. Epidemiology and Infection, 2016, 144, 3091-3100.	1.0	24
49	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.	0.6	23
50	The Usual Suspects: Comparison of the Relative Roles of Potential Urban Chikungunya Virus Vectors in Australia. PLoS ONE, 2015, 10, e0134975.	1.1	23
51	Development and Evaluation of a Species Diagnostic Polymerase Chain Reaction-Restriction Fragment-Length Polymorphism Procedure for Cryptic Members of theCulex sitiens(Diptera: Culicidae) Subgroup in Australia and the Southwest Pacific. Journal of Medical Entomology, 2002, 39, 362-369.	0.9	22
52	Regional Comparison of Mosquito Bloodmeals in South Australia: Implications for Ross River Virus Ecology. Journal of Medical Entomology, 2016, 53, 902-910.	0.9	20
53	Mosquito traps for urban surveillance: collection efficacy and potential for use by citizen scientists. Journal of Vector Ecology, 2018, 43, 98-103.	0.5	20
54	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.	1.1	19

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55	Association between malaria incidence and meteorological factors: a multi-location study in China, 2005â€“2012. Epidemiology and Infection, 2018, 146, 89-99.	1.0	19
56	Geographic Variation in Attraction to Human Odor Compounds by Aedes aegypti Mosquitoes (Diptera:) Tj ETQq0 0 0 rgBT /Overlock 10	0.9	17
57	FIELD EVALUATION OF NEW MOUNTAIN SANDALWOOD MOSQUITO STICKSÂ®AND NEW MOUNTAIN SANDALWOOD BOTANICAL REPELLENT AGAINST MOSQUITOES IN NORTH QUEENSLAND, AUSTRALIA. Journal of the American Mosquito Control Association, 2006, 22, 158-160.	0.2	17
58	Parasitism of mosquitoes (Diptera: Culicidae) by larval mites (Acari: Parasitengona) in Adelaide, South Australia. Australian Journal of Entomology, 2002, 41, 161-163.	1.1	14
59	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.	1.1	14
60	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.	0.5	14
61	Differentiation of Aedes aegypti and Aedes notoscriptus (Diptera: Culicidae) eggs using scanning electron microscopy. Arthropod Structure and Development, 2016, 45, 273-280.	0.8	14
62	Ross River Virus and the Necessity of Multiscale, Eco-epidemiological Analyses. Journal of Infectious Diseases, 2018, 217, 807-815.	1.9	14
63	Evolution of Aposematic Behavior and Coloration in the Australian Frog Genus Uperoleia. Journal of Herpetology, 1998, 32, 136.	0.2	13
64	Daily patterns of locomotor and sugarâ€feeding activity of the mosquito Culex annulirostris from geographically isolated populations. Physiological Entomology, 2005, 30, 309-316.	0.6	12
65	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, 70-76.	0.7	12
66	The Allee effect in site choice behaviour of egg-laying dengue vector mosquitoes. Tropical Biomedicine, 2008, 25, 140-4.	0.2	12
67	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, 2856-2864.	1.0	11
68	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.	1.1	9
69	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.	1.1	9
70	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.	0.1	9
71	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.	1.1	9
72	A critical review of freshwater crayfish as amphibian predators: Capable consumers of toxic prey?. Toxicon, 2014, 82, 9-17.	0.8	9

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73	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, 375-385.	0.9	9
74	Field Worker Evaluation of Dengue Vector Surveillance Methods. Asia-Pacific Journal of Public Health, 2015, 27, 705-714.	0.4	9
75	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.	1.0	9
76	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.	0.1	9
77	Spatial heterogeneity in oviposition preference of the mosquito Aedes notoscriptus (Skuse) (Diptera:) Tj ETQq1 1 0.784314 rgBT /Overl	1.1	8
78	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.	0.8	8
79	Predation of two common native frog species (Litoria ewingi and Crinia signifera) by freshwater invertebrates. Australian Journal of Zoology, 2014, 62, 483.	0.6	7
80	Health professionals' perceptions of hemorrhagic fever with renal syndrome and climate change in China. Global and Planetary Change, 2017, 152, 12-18.	1.6	7
81	Epidemic potential of Zika virus in Australia: implications for blood transfusion safety. Transfusion, 2019, 59, 648-658.	0.8	7
82	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.	0.4	6
83	Experts' Perceptions on China's Capacity to Manage Emerging and Reâ€emerging Zoonotic Diseases in an Era of Climate Change. Zoonoses and Public Health, 2017, 64, 527-536.	0.9	6
84	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, 110-116.	0.5	5
85	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.	1.9	5
86	Mosquitoes (Diptera: Culicidae) Of the Spencer Gulf Coast of South Australia. Transactions of the Royal Society of South Australia, 2009, 133, 51-56.	0.1	4
87	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, 111-119.	0.5	4
88	Estimation of mosquito-borne and sexual transmission of Zika virus in Australia: Risks to blood transfusion safety. PLoS Neglected Tropical Diseases, 2020, 14, e0008438.	1.3	4
89	Salinity Tolerance and Brackish Habitat Utilization in the Common Australian Frog Crinia signifera. Journal of Herpetology, 2020, 54, 161.	0.2	4
90	Nature-Based Citizen Science as a Mechanism to Improve Human Health in Urban Areas. International Journal of Environmental Research and Public Health, 2022, 19, 68.	1.2	4

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91	Development of a mechanistic dengue simulation model for Guangzhou. Epidemiology and Infection, 2019, 147, e125.	1.0	3
92	Citizen Science Mosquito Surveillance by Ad Hoc Observation Using the iNaturalist Platform. International Journal of Environmental Research and Public Health, 2022, 19, 6337.	1.2	3
93	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.	1.1	2
94	Flowering timing prediction in Australian native understorey species (Acrotriche R.Br Ericaceae) using meteorological data. International Journal of Biometeorology, 2012, 56, 95-105.	1.3	2
95	Submission on the Draft Murray-Darling Basin Plan. Transactions of the Royal Society of South Australia, 2013, 137, 135-137.	0.1	2
96	Climate change and its implications for South Australia: evidence, adaptation, impacts and resilience to change. Transactions of the Royal Society of South Australia, 2015, 139, 1-2.	0.1	2
97	Vector-borne disease in South Australiaâ€™s future climate. Transactions of the Royal Society of South Australia, 2015, 139, 121-129.	0.1	2
98	Newts are Toxic, but They were Pressured into it: Butch Brodieâ€™s Studies of Co-Evolutionary Arms Races. Transactions of the Royal Society of South Australia, 2013, 137, 96-100.	0.1	1
99	The climate change SA symposium 2013: a synthesis. Transactions of the Royal Society of South Australia, 2015, 139, 3-8.	0.1	1
100	Past and future epidemic potential of chikungunya virus in Australia. PLoS Neglected Tropical Diseases, 2021, 15, e0009963.	1.3	1
101	What role should a scientific society play in communicating information to policy makers?. Transactions of the Royal Society of South Australia, 2017, 141, 1-2.	0.1	0
102	Advances in the study of River Murray ecology and the legacy of Keith Forbes Walker (1946â^'2016). Transactions of the Royal Society of South Australia, 2017, 141, 87-91.	0.1	0
103	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.	0.6	0
104	Effect of captivity and water salinity on culture-dependent frog skin microbiota and Batrachochytrium dendrobatidis (Bd) infection. Transactions of the Royal Society of South Australia, 2022, 146, 273-294.	0.1	0