

# Amanda Callaghan

## List of Publications by Citations

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83  
papers

1,939  
citations

25  
h-index

41  
g-index

85  
ext. papers

2,155  
ext. citations

4.7  
avg, IF

5.19  
L-index

#	Paper	IF	Citations
83	Worldwide migration of amplified insecticide resistance genes in mosquitoes. <i>Nature</i> , <b>1991</b> , 350, 151-3	50.4	249
82	Interaction of pesticides with p-glycoprotein and other ABC proteins: A survey of the possible importance to insecticide, herbicide and fungicide resistance. <i>Pesticide Biochemistry and Physiology</i> , <b>2008</b> , 90, 141-153	4.9	101
81	Evidence for p-glycoprotein modification of insecticide toxicity in mosquitoes of the <i>Culex pipiens</i> complex. <i>Medical and Veterinary Entomology</i> , <b>2002</b> , 16, 218-22	2.4	78
80	Variability in acetylcholinesterase and glutathione S-transferase activities in <i>Chironomus riparius</i> meigen deployed in situ at uncontaminated field sites. <i>Environmental Toxicology and Chemistry</i> , <b>2001</b> , 20, 1725-1732	3.8	73
79	A comparative study on the relationship between acetylcholinesterase activity and acute toxicity in <i>Daphnia magna</i> exposed to anticholinesterase insecticides. <i>Environmental Toxicology and Chemistry</i> , <b>2004</b> , 23, 1241-7	3.8	70
78	Impact of polystyrene microplastics on mortality and reproduction in relation to food availability. <i>PeerJ</i> , <b>2018</b> , 6, e4601	3.1	66
77	British container breeding mosquitoes: the impact of urbanisation and climate change on community composition and phenology. <i>PLoS ONE</i> , <b>2014</b> , 9, e95325	3.7	63
76	Relationship between biomarker activity and developmental endpoints in <i>Chironomus riparius</i> Meigen exposed to an organophosphate insecticide. <i>Ecotoxicology and Environmental Safety</i> , <b>2002</b> , 53, 361-9	7	57
75	Reproduction recovery of the crustacean <i>Daphnia magna</i> after chronic exposure to ibuprofen. <i>Ecotoxicology</i> , <b>2008</b> , 17, 246-51	2.9	54
74	Up and away: ontogenic transference as a pathway for aerial dispersal of microplastics. <i>Biology Letters</i> , <b>2018</b> , 14,	3.6	54
73	Biological control agent selection under environmental change using functional responses, abundances and fecundities; the Relative Control Potential (RCP) metric. <i>Biological Control</i> , <b>2018</b> , 121, 50-57	3.8	50
72	Esterase gene amplification in <i>Culex pipiens</i> . <i>Insect Molecular Biology</i> , <b>1997</b> , 6, 319-27	3.4	41
71	Polymorphisms and fluctuations in copy number of amplified esterase genes in <i>Culex pipiens</i> mosquitoes. <i>Insect Molecular Biology</i> , <b>1998</b> , 7, 295-300	3.4	38
70	Induction of cytochrome P-450 activity in individual <i>Chironomus riparius</i> Meigen larvae exposed to xenobiotics. <i>Ecotoxicology and Environmental Safety</i> , <b>2003</b> , 54, 1-6	7	38
69	Gene transcription in <i>Daphnia magna</i> : effects of acute exposure to a carbamate insecticide and an acetanilide herbicide. <i>Aquatic Toxicology</i> , <b>2010</b> , 97, 268-76	5.1	36
68	Effect of temperature and pirimiphos methyl on biochemical biomarkers in <i>Chironomus riparius</i> Meigen. <i>Ecotoxicology and Environmental Safety</i> , <b>2002</b> , 52, 128-33	7	35
67	An in situ system for exposing aquatic invertebrates to contaminated sediments. <i>Environmental Toxicology and Chemistry</i> , <b>2000</b> , 19, 2715-2719	3.8	35

66	A comparison of the effects of organophosphate insecticide exposure and temperature stress on fluctuating asymmetry and life history traits in <i>Culex quinquefasciatus</i> . <i>Chemosphere</i> , <b>2001</b> , 45, 713-20	8.4	34
65	Mechanisms of organophosphate and carbamate resistance in <i>Culex quinquefasciatus</i> from Saudi Arabia. <i>Medical and Veterinary Entomology</i> , <b>1990</b> , 4, 275-82	2.4	34
64	Temperature and genotypic effects on life history and fluctuating asymmetry in a field strain of <i>Culex pipiens</i> . <i>Heredity</i> , <b>2002</b> , 88, 307-12	3.6	33
63	Esterase polymorphism in insecticide susceptible populations of the mosquito <i>Culex pipiens</i> . <i>Genetical Research</i> , <b>1996</b> , 67, 19-26	1.1	32
62	An optimized microtiterplate assay to detect acetylcholinesterase activity in individual <i>Chironomus riparius</i> Meigen. <i>Environmental Toxicology and Chemistry</i> , <b>2000</b> , 19, 1749-1752	3.8	31
61	Effect of short-term exposure to chlorpyrifos on developmental parameters and biochemical biomarkers in <i>Chironomus riparius</i> Meigen. <i>Ecotoxicology and Environmental Safety</i> , <b>2001</b> , 50, 19-24	7	31
60	Fluctuating wing asymmetry and larval density stress in <i>Culex quinquefasciatus</i> (Diptera: Culicidae). <i>Bulletin of Entomological Research</i> , <b>2000</b> , 90, 279-83	1.7	28
59	Examining effects of ontogenic microplastic transference on <i>Culex</i> mosquito mortality and adult weight. <i>Science of the Total Environment</i> , <b>2019</b> , 651, 871-876	10.2	28
58	Short-term exposure to sub-lethal doses of lindane affects developmental parameters in <i>Chironomus riparius</i> Meigen, but has no effect on larval glutathione-S-transferase activity. <i>Chemosphere</i> , <b>2001</b> , 44, 583-9	8.4	25
57	Intraclonal variability in <i>Daphnia</i> acetylcholinesterase activity: the implications for its applicability as a biomarker. <i>Environmental Toxicology and Chemistry</i> , <b>2003</b> , 22, 2042-7	3.8	24
56	Interspecific variation, habitat complexity and ovipositional responses modulate the efficacy of cyclopoid copepods in disease vector control. <i>Biological Control</i> , <b>2018</b> , 121, 80-87	3.8	23
55	Calanoid Copepods: An Overlooked Tool in the Control of Disease Vector Mosquitoes. <i>Journal of Medical Entomology</i> , <b>2018</b> , 55, 1656-1658	2.2	23
54	Evidence for an interaction between p-glycoprotein and cadmium toxicity in cadmium-resistant and -susceptible strains of <i>Drosophila melanogaster</i> . <i>Ecotoxicology and Environmental Safety</i> , <b>2002</b> , 52, 211-37		23
53	The influence of microplastics on trophic interaction strengths and oviposition preferences of dipterans. <i>Science of the Total Environment</i> , <b>2019</b> , 651, 2420-2423	10.2	23
52	. <i>Environmental Toxicology and Chemistry</i> , <b>2000</b> , 19, 1749	3.8	22
51	The use of image analysis to estimate population growth rate in <i>Daphnia magna</i> . <i>Journal of Applied Ecology</i> , <b>2006</b> , 43, 828-834	5.8	20
50	The use of garlic ( <i>Alliumsativa</i> ) and lemon peel ( <i>Citrus limom</i> ) extracts as <i>Culex pipiens</i> larvacides: Persistence and interaction with an organophosphate resistance mechanism. <i>Chemosphere</i> , <b>1999</b> , 39, 2489-2496	8.4	18
49	Impacts of polystyrene microplastics on <i>Daphnia magna</i> : A laboratory and a mesocosm study. <i>Science of the Total Environment</i> , <b>2020</b> , 705, 135800	10.2	18

48	Using functional responses to quantify notonectid predatory impacts across increasingly complex environments. <i>Acta Oecologica</i> , <b>2019</b> , 95, 116-119	1.7	18
47	Combined impacts of warming and salinisation on trophic interactions and mortality of a specialist ephemeral wetland predator. <i>Freshwater Biology</i> , <b>2019</b> , 64, 1584-1592	3.1	17
46	Intermediate predator naivety and sex-skewed vulnerability predict the impact of an invasive higher predator. <i>Scientific Reports</i> , <b>2018</b> , 8, 14282	4.9	17
45	What the fluff is this? - <i>Gammarus pulex</i> prefer food sources without plastic microfibers. <i>Science of the Total Environment</i> , <b>2020</b> , 715, 136815	10.2	15
44	Clonal variation in acetylcholinesterase biomarkers and life history traits following OP exposure in <i>Daphnia magna</i> . <i>Ecotoxicology and Environmental Safety</i> , <b>2008</b> , 71, 519-26	7	13
43	Incorporation of in situ and biomarker assays in higher-tier assessment of the aquatic toxicity of insecticides. <i>Water Research</i> , <b>2003</b> , 37, 4180-90	12.5	13
42	THE RELATIONSHIP BETWEEN ENVIRONMENTAL STRESS AND VARIANCE <b>1999</b> , 9, 456-462		13
41	Biochemical studies of A and B carboxylesterases from organophosphate resistant strains of an Italian <i>Culex pipiens</i> (Diptera: Culicidae). <i>Pesticide Biochemistry and Physiology</i> , <b>1991</b> , 41, 198-206	4.9	13
40	Effects of temperature and genetic stress on life history and fluctuating wing asymmetry in <i>Culex pipiens</i> mosquitoes. <i>European Journal of Entomology</i> , <b>2002</b> , 99, 405-412		13
39	Additive multiple predator effects can reduce mosquito populations. <i>Ecological Entomology</i> , <b>2020</b> , 45, 243-250	2.1	13
38	Temephos resistance in <i>Simulium damnosum</i> Theobald (Diptera: Simuliidae): a comparative study between larvae and adults of the forest and savanna strains of this species complex. <i>Bulletin of Entomological Research</i> , <b>1989</b> , 79, 659-670	1.7	12
37	Dye another day: the predatory impact of cyclopoid copepods on larval mosquito <i>Culex pipiens</i> is unaffected by dyed environments. <i>Journal of Vector Ecology</i> , <b>2018</b> , 43, 334-336	1.5	11
36	Muddy waters: Efficacious predation of container-breeding mosquitoes by a newly-described calanoid copepod across differential water clarities. <i>Biological Control</i> , <b>2018</b> , 127, 25-30	3.8	10
35	Morphological and fecundity traits of <i>Culex</i> mosquitoes caught in gravid traps in urban and rural Berkshire, UK. <i>Bulletin of Entomological Research</i> , <b>2015</b> , 105, 615-20	1.7	9
34	Esterase activity and allele frequency in field populations of <i>Simulium equinum</i> (L.) (Diptera: Simuliidae) exposed to organophosphate pollution. <i>Environmental Toxicology and Chemistry</i> , <b>1997</b> , 16, 2550-2555	3.8	9
33	Prevention of changes in the electrophoretic mobility of overproduced esterases from organophosphate-resistant mosquitoes of the <i>Culex pipiens</i> complex. <i>Medical and Veterinary Entomology</i> , <b>1994</b> , 8, 391-4	2.4	9
32	Variation in the sensitivity of <i>Callosobruchus</i> (Coleoptera: Bruchidae) acetylcholinesterase to the organophosphate insecticide malaoxon: effect of species, geographical strain and food type. <i>Pest Management Science</i> , <b>2012</b> , 68, 1265-71	4.6	8
31	Biochemical characterization of chlorphoxim resistance in adults and larvae of the <i>Simulium damnosum</i> complex (Diptera: Simuliidae). <i>Bulletin of Entomological Research</i> , <b>1991</b> , 81, 401-406	1.7	8

30	Pond dyes are mosquito oviposition attractants. <i>PeerJ</i> , <b>2017</b> , 5, e3361	3.1	8
29	Haem peroxidase activity in <i>Daphnia magna</i> : a biomarker for sub-lethal toxicity assessments of kerosene-contaminated groundwater. <i>Ecotoxicology</i> , <b>2003</b> , 12, 387-95	2.9	7
28	Molecular comparisons of the <i>Culex pipiens</i> (L.) complex esterase gene amplicons. <i>Insect Biochemistry and Molecular Biology</i> , <b>2004</b> , 34, 433-41	4.5	7
27	The Effect of the Alternative Prey, <i>Paramecium caudatum</i> (Peniculida: Parameciidae), on the Predation of <i>Culex pipiens</i> (Diptera: Culicidae) by the Copepods <i>Macrocyclus albidus</i> and <i>Megacyclus viridis</i> (Cyclopoida: Cyclopidae). <i>Journal of Medical Entomology</i> , <b>2019</b> , 56, 276-279	2.2	7
26	Threats to the validity of the Collegiate Learning Assessment (CLA+) as a measure of critical thinking skills and implications for Learning Gain. <i>Higher Education Pedagogies</i> , <b>2018</b> , 3, 57-82	1.2	7
25	Variation in the susceptibility of <i>Anopheles gambiae</i> to botanicals across a metropolitan region of Nigeria. <i>PLoS ONE</i> , <b>2019</b> , 14, e0210440	3.7	6
24	Temperature-related activity loss and mobility changes of esterases associated with insecticide resistance in <i>Culex pipiens</i> mosquitoes. <i>Medical and Veterinary Entomology</i> , <b>1993</b> , 7, 287-90	2.4	6
23	The selection and genetic analysis of esterase electromorphs in an organophosphate-resistant strain of <i>Culex pipiens</i> from Italy. <i>Biochemical Genetics</i> , <b>1993</b> , 31, 459-72	2.4	6
22	A novel metric reveals biotic resistance potential and informs predictions of invasion success. <i>Scientific Reports</i> , <b>2019</b> , 9, 15314	4.9	6
21	Elusive enemies: Consumptive and ovipositional effects on mosquitoes by predatory midge larvae are enhanced in dyed environments. <i>Biological Control</i> , <b>2019</b> , 132, 116-121	3.8	5
20	. <i>Environmental Toxicology and Chemistry</i> , <b>1997</b> , 16, 2550	3.8	5
19	Alternative prey impedes the efficacy of a natural enemy of mosquitoes. <i>Biological Control</i> , <b>2020</b> , 141, 104146	3.8	5
18	The effect of pond dyes on oviposition and survival in wild UK <i>Culex</i> mosquitoes. <i>PLoS ONE</i> , <b>2018</b> , 13, e0193847	3.7	4
17	Prey size and predator density modify impacts by natural enemies towards mosquitoes. <i>Ecological Entomology</i> , <b>2020</b> , 45, 423-433	2.1	4
16	Assessing multiple predator, diurnal and search area effects on predatory impacts by ephemeral wetland specialist copepods. <i>Aquatic Ecology</i> , <b>2020</b> , 54, 181-191	1.9	4
15	Sex demographics alter the effect of habitat structure on predation by a temporary pond specialist. <i>Hydrobiologia</i> , <b>2020</b> , 847, 831-840	2.4	4
14	Differential Interaction Strengths and Prey Preferences Across Larval Mosquito Ontogeny by a Cohabiting Predatory Midge. <i>Journal of Medical Entomology</i> , <b>2019</b> , 56, 1428-1432	2.2	3
13	Insecticide resistance gene transmission by insecticide-susceptible insects. <i>Functional Ecology</i> , <b>2001</b> , 15, 812-813	5.6	3

12	Lack of prey switching and strong preference for mosquito prey by a temporary pond specialist predator. <i>Ecological Entomology</i> , <b>2020</b> , 45, 369-372	2.1	3
11	Quantifying reproductive state and predator effects on copepod motility in ephemeral ecosystems. <i>Journal of Arid Environments</i> , <b>2019</b> , 168, 59-61	2.5	2
10	Prey and predator density-dependent interactions under different water volumes. <i>Ecology and Evolution</i> , <b>2021</b> , 11, 6504-6512	2.8	2
9	Sex-skewed trophic impacts in ephemeral wetlands. <i>Freshwater Biology</i> , <b>2018</b> , 64, 359	3.1	2
8	Inter-Population Similarities and Differences in Predation Efficiency of a Mosquito Natural Enemy. <i>Journal of Medical Entomology</i> , <b>2020</b> , 57, 1983-1987	2.2	1
7	Multivariate relationships between groundwater chemistry and toxicity in an urban aquifer. <i>Environmental Toxicology and Chemistry</i> , <b>2003</b> , 22, 2813-21	3.8	1
6	Sink trap: duckweed and dye attractant reduce mosquito populations. <i>Medical and Veterinary Entomology</i> , <b>2020</b> , 34, 97-104	2.4	1
5	Phenotypic plasticity as a cause and consequence of population dynamics. <i>Ecology Letters</i> , <b>2021</b> , 24, 2406-2417	3.1	1
4	Microplastics in freshwater ecosystems with special reference to tropical systems: Detection, impact, and management <b>2022</b> , 151-169		0
3	Aquatic plant extracts and coverage mediate larval mosquito survivorship and development. <i>Biological Control</i> , <b>2020</b> , 145, 104263	3.8	0
2	Microplastic and Organic Fibres in Feeding, Growth and Mortality of <i>Gammarus pulex</i> . <i>Environments - MDPI</i> , <b>2021</b> , 8, 74	3.2	0
1	The selection and genetic analysis of esterase electromorphs in an organophosphate-resistant strain of <i>Culex pipiens</i> from Italy. <i>Biochemical Genetics</i> , <b>1993</b> , 31-31, 459-472	2.4	