Amanda Callaghan

List of Publications by Year
in descending order

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83	2,428	185998	223531
papers	citations	28 h-index	46 g-index

85	85	85	2518
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Worldwide migration of amplified insecticide resistance genes in mosquitoes. Nature, 1991, 350, 151-153.	13.7	283
2	Interaction of pesticides with p-glycoprotein and other ABC proteins: A survey of the possible importance to insecticide, herbicide and fungicide resistance. Pesticide Biochemistry and Physiology, 2008, 90, 141-153.	1.6	110
3	Impact of polystyrene microplastics on Daphnia magna mortality and reproduction in relation to food availability. PeerJ, 2018, 6, e4601.	0.9	107
4	Up and away: ontogenic transference as a pathway for aerial dispersal of microplastics. Biology Letters, 2018, 14, 20180479.	1.0	88
5	Evidence for p-glycoprotein modification of insecticide toxicity in mosquitoes of the Culex pipiens complex. Medical and Veterinary Entomology, 2002, 16, 218-222.	0.7	85
6	British Container Breeding Mosquitoes: The Impact of Urbanisation and Climate Change on Community Composition and Phenology. PLoS ONE, 2014, 9, e95325.	1.1	85
7	Variability in acetylcholinesterase and glutathione Sâ€transferase activities in Chironomus riparius meigen deployed in situ at uncontaminated field sites. Environmental Toxicology and Chemistry, 2001, 20, 1725-1732.	2.2	80
8	A COMPARATIVE STUDY ON THE RELATIONSHIP BETWEEN ACETYLCHOLINESTERASE ACTIVITY AND ACUTE TOXICITY IN DAPHNIA MAGNA EXPOSED TO ANTICHOLINESTERASE INSECTICIDES. Environmental Toxicology and Chemistry, 2004, 23, 1241.	2.2	77
9	Reproduction recovery of the crustacean Daphnia magna after chronic exposure to ibuprofen. Ecotoxicology, 2008, 17, 246-251.	1.1	63
10	Biological control agent selection under environmental change using functional responses, abundances and fecundities; the Relative Control Potential (RCP) metric. Biological Control, 2018, 121, 50-57.	1.4	61
11	Relationship between biomarker activity and developmental endpoints in Chironomus riparius Meigen exposed to an organophosphate insecticide. Ecotoxicology and Environmental Safety, 2002, 53, 361-369.	2.9	59
12	Examining effects of ontogenic microplastic transference on Culex mosquito mortality and adult weight. Science of the Total Environment, 2019, 651, 871-876.	3.9	58
13	Esterase gene amplification in Culex pipiens. Insect Molecular Biology, 1997, 6, 319-27.	1.0	49
14	Temperature and genotypic effects on life history and fluctuating asymmetry in a field strain of Culex pipiens. Heredity, 2002, 88, 307-312.	1.2	44
15	Impacts of polystyrene microplastics on Daphnia magna: A laboratory and a mesocosm study. Science of the Total Environment, 2020, 705, 135800.	3.9	44
16	Polymorphisms and fluctuations in copy number of amplified esterase genes in Culex pipiens mosquitoes. Insect Molecular Biology, 1998, 7, 295-300.	1.0	43
17	Effect of Temperature and Pirimiphos Methyl on Biochemical Biomarkers in Chironomus riparius Meigen. Ecotoxicology and Environmental Safety, 2002, 52, 128-133.	2.9	43
18	Gene transcription in Daphnia magna: Effects of acute exposure to a carbamate insecticide and an acetanilide herbicide. Aquatic Toxicology, 2010, 97, 268-276.	1.9	43

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19	A comparison of the effects of organophosphate insecticide exposure and temperature stress on fluctuating asymmetry and life history traits in Culex quinquefasciatus. Chemosphere, 2001, 45, 713-720.	4.2	41
20	Induction of cytochrome P-450 activity in individual Chironomus riparius Meigen larvae exposed to xenobiotics. Ecotoxicology and Environmental Safety, 2003, 54, 1-6.	2.9	41
21	An in situ system for exposing aquatic invertebrates to contaminated sediments. Environmental Toxicology and Chemistry, 2000, 19, 2715-2719.	2.2	38
22	An optimized microtiterplate assay to detect acetylcholinesterase activity in individual Chironomus riparius Meigen. Environmental Toxicology and Chemistry, 2000, 19, 1749-1752.	2.2	37
23	Mechanisms of organophosphate and carbamate resistance in Culex quinquefasciatus from Saudi Arabia. Medical and Veterinary Entomology, 1990, 4, 275-282.	0.7	36
24	The influence of microplastics on trophic interaction strengths and oviposition preferences of dipterans. Science of the Total Environment, 2019, 651, 2420-2423.	3.9	36
25	Effect of Short-Term Exposure to Chlorpyrifos on Developmental Parameters and Biochemical Biomarkers in Chironomus riparius Meigen. Ecotoxicology and Environmental Safety, 2001, 50, 19-24.	2.9	35
26	Esterase polymorphism in insecticide susceptible populations of the mosquitoCulex pipiens. Genetical Research, 1996, 67, 19-26.	0.3	34
27	Fluctuating wing asymmetry and larval density stress inCulex quinquefasciatus(Diptera: Culicidae). Bulletin of Entomological Research, 2000, 90, 279-283.	0.5	32
28	What the fluff is this? - Gammarus pulex prefer food sources without plastic microfibers. Science of the Total Environment, 2020, 715, 136815.	3.9	32
29	Short-term exposure to sub-lethal doses of lindane affects developmental parameters in Chironomus riparius Meigen, but has no effect on larval glutathione-S-transferase activity. Chemosphere, 2001, 44, 583-589.	4.2	29
30	INTRACLONAL VARIABILITY IN DAPHNIA ACETYLCHOLINESTERASE ACTIVITY: THE IMPLICATIONS FOR ITS APPLICABILITY AS A BIOMARKER. Environmental Toxicology and Chemistry, 2003, 22, 2042.	2.2	28
31	Evidence for an Interaction between p-Glycoprotein and Cadmium Toxicity in Cadmium-Resistant and -Susceptible Strains of Drosophila melanogaster. Ecotoxicology and Environmental Safety, 2002, 52, 211-213.	2.9	27
32	Calanoid Copepods: An Overlooked Tool in the Control of Disease Vector Mosquitoes. Journal of Medical Entomology, 2018, 55, 1656-1658.	0.9	27
33	The use of garlic (Alliumsativa) and lemon peel (Citrus limom) extracts as Culex pipiens larvacides: Persistence and interaction with an organophosphate resistance mechanism. Chemosphere, 1999, 39, 2489-2496.	4.2	26
34	Interspecific variation, habitat complexity and ovipositional responses modulate the efficacy of cyclopoid copepods in disease vector control. Biological Control, 2018, 121, 80-87.	1.4	26
35	Using functional responses to quantify notonectid predatory impacts across increasingly complex environments. Acta Oecologica, 2019, 95, 116-119.	0.5	25
36	AN OPTIMIZED MICROTITERPLATE ASSAY TO DETECT ACETYLCHOLINESTERASE ACTIVITY IN INDIVIDUAL CHIRONOMUS RIPARIUS MEIGEN. Environmental Toxicology and Chemistry, 2000, 19, 1749.	2.2	24

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37	The use of image analysis to estimate population growth rate in Daphnia magna. Journal of Applied Ecology, 2006, 43, 828-834.	1.9	20
38	Intermediate predator naÃ¯vetÃ© and sex-skewed vulnerability predict the impact of an invasive higher predator. Scientific Reports, 2018, 8, 14282.	1.6	20
39	Combined impacts of warming and salinisation on trophic interactions and mortality of a specialist ephemeral wetland predator. Freshwater Biology, 2019, 64, 1584-1592.	1.2	19
40	Additive multiple predator effects can reduce mosquito populations. Ecological Entomology, 2020, 45, 243-250.	1.1	18
41	Biochemical studies of A and B carboxylesterases from organophosphate resistant strains of an Italian Culex pipiens (Diptera: Culicidae). Pesticide Biochemistry and Physiology, 1991, 41, 198-206.	1.6	16
42	THE RELATIONSHIP BETWEEN ENVIRONMENTAL STRESS AND VARIANCE. , 1999, 9, 456-462.		16
43	Incorporation of in situ and biomarker assays in higher-tier assessment of the aquatic toxicity of insecticides. Water Research, 2003, 37, 4180-4190.	5.3	15
44	Effects of temperature and genetic stress on life history and fluctuating wing asymmetry in Culex pipiens mosquitoes. European Journal of Entomology, 2002, 99, 405-412.	1.2	15
45	Prevention of changes in the electrophoretic mobility of overproduced esterases from organophosphateâ€resistant mosquitoes of the Culex pipiens complex. Medical and Veterinary Entomology, 1994, 8, 391-394.	0.7	14
46	Phenotypic plasticity as a cause and consequence of population dynamics. Ecology Letters, 2021, 24, 2406-2417.	3.0	14
47	Clonal variation in acetylcholinesterase biomarkers and life history traits following OP exposure in Daphnia magna. Ecotoxicology and Environmental Safety, 2008, 71, 519-526.	2.9	13
48	Variation in the sensitivity of Callosobruchus (Coleoptera: Bruchidae) acetylcholinesterase to the organophosphate insecticide malaoxon: effect of species, geographical strain and food type. Pest Management Science, 2012, 68, 1265-1271.	1.7	13
49	Dye another day: the predatory impact of cyclopoid copepods on larval mosquitoCulex pipiensis unaffected by dyed environments. Journal of Vector Ecology, 2018, 43, 334-336.	0.5	13
50	A novel metric reveals biotic resistance potential and informs predictions of invasion success. Scientific Reports, 2019, 9, 15314.	1.6	13
51	Temephos resistance in Simulium damnosum Theobald (Diptera: Simuliidae): a comparative study between larvae and adults of the forest and savanna strains of this species complex. Bulletin of Entomological Research, 1989, 79, 659-670.	0.5	12
52	Morphological and fecundity traits of Culex mosquitoes caught in gravid traps in urban and rural Berkshire, UK. Bulletin of Entomological Research, 2015, 105, 615-620.	0.5	12
53	Pond dyes are Culex mosquito oviposition attractants. PeerJ, 2017, 5, e3361.	0.9	12
54	Muddy waters: Efficacious predation of container-breeding mosquitoes by a newly-described calanoid copepod across differential water clarities. Biological Control, 2018, 127, 25-30.	1.4	11

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55	Esterase activity and allele frequency in field populations of Simulium equinum (L.) (Diptera:) Tj ETQq1 1 0.784314 rgBT /Overlo 2550-2555.	2.2	10
56	Haem peroxidase activity in Daphnia magna: a biomarker for sub-lethal toxicity assessments of kerosene-contaminated groundwater. Ecotoxicology, 2003, 12, 387-395.	1.1	10
57	Molecular comparisons of the Culex pipiens (L.) complex esterase gene amplicons. Insect Biochemistry and Molecular Biology, 2004, 34, 433-441.	1.2	10
58	The Effect of the Alternative Prey,Paramecium caudatum(Peniculida: Parameciidae), on the Predation ofCulex pipiens(Diptera: Culicidae) by the CopepodsMacrocyclops albidusandMegacyclops viridis(Cyclopoida: Cyclopidae). Journal of Medical Entomology, 2019, 56, 276-279.	0.9	10
59	Biochemical characterization of chlorphoxim resistance in adults and larvae of the Simulium damnosum complex (Diptera: Simuliidae). Bulletin of Entomological Research, 1991, 81, 401-406.	0.5	9
60	Sexâ€skewed trophic impacts in ephemeral wetlands. Freshwater Biology, 2019, 64, 359-366.	1.2	9
61	Threats to the validity of the Collegiate Learning Assessment (CLA+) as a measure of critical thinking skills and implications for Learning Gain. Higher Education Pedagogies, 2018, 3, 57-82.	2.1	9
62	Variation in the susceptibility of Anopheles gambiae to botanicals across a metropolitan region of Nigeria. PLoS ONE, 2019, 14, e0210440.	1.1	8
63	Prey and predator densityâ€dependent interactions under different water volumes. Ecology and Evolution, 2021, 11, 6504-6512.	0.8	8
64	ESTERASE ACTIVITY AND ALLELE FREQUENCY IN FIELD POPULATIONS OF SIMULIUM EQUINUM (L.) (DIPTERA:) Tj ETQq0 0 0 rgBT /Overlo 1997, 16, 2550.	2.2	8
65	Temperatureâ€related activity loss and mobility changes of esterases associated with insecticide resistance in Culex pipiens mosquitoes. Medical and Veterinary Entomology, 1993, 7, 287-290.	0.7	7
66	The effect of pond dyes on oviposition and survival in wild UK Culex mosquitoes. PLoS ONE, 2018, 13, e0193847.	1.1	7
67	Elusive enemies: Consumptive and ovipositional effects on mosquitoes by predatory midge larvae are enhanced in dyed environments. Biological Control, 2019, 132, 116-121.	1.4	7
68	Prey size and predator density modify impacts by natural enemies towards mosquitoes. Ecological Entomology, 2020, 45, 423-433.	1.1	7
69	The selection and genetic analysis of esterase electromorphs in an organophosphate-resistant strain ofCulex pipiens from Italy. Biochemical Genetics, 1993, 31, 459-472.	0.8	6
70	Alternative prey impedes the efficacy of a natural enemy of mosquitoes. Biological Control, 2020, 141, 104146.	1.4	6
71	Lack of prey switching and strong preference for mosquito prey by a temporary pond specialist predator. Ecological Entomology, 2020, 45, 369-372.	1.1	5
72	Assessing multiple predator, diurnal and search area effects on predatory impacts by ephemeral wetland specialist copepods. Aquatic Ecology, 2020, 54, 181-191.	0.7	5

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73	Insecticide resistance gene transmission by insecticide-susceptible insects. Functional Ecology, 2001, 15, 812-813.	1.7	4
74	Sex demographics alter the effect of habitat structure on predation by a temporary pond specialist. Hydrobiologia, 2020, 847, 831-840.	1.0	4
75	Microplastics in freshwater ecosystems with special reference to tropical systems: Detection, impact, and management. , 2022, , 151-169.		4
76	Quantifying reproductive state and predator effects on copepod motility in ephemeral ecosystems. Journal of Arid Environments, 2019, 168, 59-61.	1.2	3
77	Differential Interaction Strengths and Prey Preferences Across Larval Mosquito Ontogeny by a Cohabiting Predatory Midge. Journal of Medical Entomology, 2019, 56, 1428-1432.	0.9	3
78	MULTIVARIATE RELATIONSHIPS BETWEEN GROUNDWATER CHEMISTRY AND TOXICITY IN AN URBAN AQUIFER. Environmental Toxicology and Chemistry, 2003, 22, 2813.	2.2	2
79	Aquatic plant extracts and coverage mediate larval mosquito survivorship and development. Biological Control, 2020, 145, 104263.	1.4	2
80	Sink trap: duckweed and dye attractant reduce mosquito populations. Medical and Veterinary Entomology, 2020, 34, 97-104.	0.7	1
81	Inter-Population Similarities and Differences in Predation Efficiency of a Mosquito Natural Enemy. Journal of Medical Entomology, 2020, 57, 1983-1987.	0.9	1
82	Microplastic and Organic Fibres in Feeding, Growth and Mortality of Gammarus pulex. Environments - MDPI, 2021, 8, 74.	1.5	1
83	The selection and genetic analysis of esterase electromorphs in an organophosphate-resistant strain ofCulex pipiens from Italy. Biochemical Genetics, 1993, 31-31, 459-472.	0.8	0