

Jeffery R Bloomquist

List of Publications by Year in descending order

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88
papers

2,029
citations

257450

24
h-index

265206

42
g-index

88
all docs

88
docs citations

88
times ranked

2176
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion Channels as Targets for Insecticides. Annual Review of Entomology, 1996, 41, 163-190.	11.8	356
2	Chloride channels as tools for developing selective insecticides. Archives of Insect Biochemistry and Physiology, 2003, 54, 145-156.	1.5	217
3	Chemical control of the Asian citrus psyllid and of huanglongbing disease in citrus. Pest Management Science, 2015, 71, 808-823.	3.4	143
4	Neurotoxicity and Mode of Action of N, N-Diethyl-Meta-Toluamide (DEET). PLoS ONE, 2014, 9, e103713.	2.5	80
5	Plant Essential Oils Affect the Toxicities of Carbaryl and Permethrin Against <i>Aedes aegypti</i> (Diptera: Culicidae). Journal of Medical Entomology, 2013, 50, 826-832.	1.8	75
6	An insecticide resistance-breaking mosquitocide targeting inward rectifier potassium channels in vectors of Zika virus and malaria. Scientific Reports, 2016, 6, 36954.	3.3	55
7	Mode of action of atracotoxin at central and peripheral synapses of insects. Invertebrate Neuroscience, 2003, 5, 45-50.	1.8	49
8	Re-engineering aryl methylcarbamates to confer high selectivity for inhibition of <i>Anopheles gambiae</i> versus human acetylcholinesterase. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 4593-4598.	2.2	44
9	GABA and Glutamate Receptors as Biochemical Sites for Insecticide Action. , 2001, , 17-41.		43
10	Mode of action of the plant-derived silphinenes on insect and mammalian GABAA receptor/chloride channel complex. Pesticide Biochemistry and Physiology, 2008, 91, 17-23.	3.6	42
11	Reduced neuronal sensitivity to dieldrin and picrotoxinin in a cyclodiene-resistant strain of <i>Drosophila melanogaster</i> (Meigen). Archives of Insect Biochemistry and Physiology, 1992, 19, 17-25.	1.5	41
12	Towards a species-selective acetylcholinesterase inhibitor to control the mosquito vector of malaria, <i>Anopheles gambiae</i> . Chemico-Biological Interactions, 2008, 175, 368-375.	4.0	41
13	Pyrethroid resistance alters the blood-feeding behavior in Puerto Rican <i>Aedes aegypti</i> mosquitoes exposed to treated fabric. PLoS Neglected Tropical Diseases, 2017, 11, e0005954.	3.0	36
14	Is DEET a dangerous neurotoxicant?. Pest Management Science, 2019, 75, 2068-2070.	3.4	36
15	Excitation of central neurons by dieldrin and picrotoxinin in susceptible and resistant <i>Drosophila melanogaster</i> (meigen). Pest Management Science, 1991, 32, 463-469.	0.4	35
16	Amitraz and its metabolite modulate honey bee cardiac function and tolerance to viral infection. Journal of Invertebrate Pathology, 2017, 149, 119-126.	3.2	34
17	Reduced effectiveness of repellents in a pyrethroid-resistant strain of <i>Aedes aegypti</i> (Diptera:) Tj ETQq1 1 0.784314, ggBT /Over	3.4	34
18	Mosquitocidal Activity and Mode of Action of the Isoxazoline Fluralaner. International Journal of Environmental Research and Public Health, 2017, 14, 154.	2.6	33

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19	Alkaloids with Activity against the Zika Virus Vector <i>Aedes aegypti</i> (L.)—Crinsarnine and Sarniensinol, Two New Crinine and Mesembrine Type Alkaloids Isolated from the South African Plant <i>Nerine sarniensis</i> . <i>Molecules</i> , 2016, 21, 1432.	3.8	32
20	Sarniensine, a mesembrine-type alkaloid isolated from <i>Nerine sarniensis</i> , an indigenous South African Amaryllidaceae, with larvicidal and adulticidal activities against <i>Aedes aegypti</i> . <i>FA-toterap-Äc</i> , 2017, 116, 34-38.	2.2	32
21	Carbamate and pyrethroid resistance in the akron strain of <i>Anopheles gambiae</i> . <i>Pesticide Biochemistry and Physiology</i> , 2015, 121, 116-121.	3.6	31
22	Select Small Core Structure Carbamates Exhibit High Contact Toxicity to “Carbamate-Resistant” Strain Malaria Mosquitoes, <i>Anopheles gambiae</i> (Akron). <i>PLoS ONE</i> , 2012, 7, e46712.	2.5	29
23	A survey of bacterial, fungal and plant metabolites against <i>Aedes aegypti</i> (Diptera: Culicidae), the vector of yellow and dengue fevers and Zika virus. <i>Open Chemistry</i> , 2017, 15, 156-166.	1.9	28
24	Toxicity, mode of action, and synergist potential of flonicamid against mosquitoes. <i>Pesticide Biochemistry and Physiology</i> , 2018, 151, 3-9.	3.6	27
25	Vapor toxicity of five volatile pyrethroids against <i>Aedes aegypti</i> , <i>Aedes albopictus</i> , <i>Culex quinquefasciatus</i> , and <i>Anopheles quadrimaculatus</i> (Diptera: Culicidae). <i>Pest Management Science</i> , 2018, 74, 2699-2706.	3.4	26
26	Insecticidal, repellent and fungicidal properties of novel trifluoromethylphenyl amides. <i>Pesticide Biochemistry and Physiology</i> , 2013, 107, 138-147.	3.6	25
27	Inhibitor profile of bis(n)-tacrine and N-methylcarbamates on acetylcholinesterase from <i>Rhipicephalus (Boophilus) microplus</i> and <i>Phlebotomus papatasi</i> . <i>Pesticide Biochemistry and Physiology</i> , 2013, 106, 85-92.	3.6	21
28	Mosquitocidal carbamates with low toxicity to agricultural pests: an advantageous property for insecticide resistance management. <i>Pest Management Science</i> , 2015, 71, 1158-1164.	3.4	21
29	Evaluation of novel carbamate insecticides for neurotoxicity to non-target species. <i>Pesticide Biochemistry and Physiology</i> , 2013, 106, 156-161.	3.6	17
30	Synthesis and structure-activity relationships of carbonylhydrazides and 1,3,4-oxadiazole derivatives bearing an imidazolidine moiety against the yellow fever and dengue vector, <i>Aedes aegypti</i> . <i>Pest Management Science</i> , 2018, 74, 413-421.	3.4	17
31	Nematicidal activity of anion transport blockers against <i>Meloidogyne incognita</i> , <i>Caenorhabditis elegans</i> and <i>Heterorhabditis bacteriophora</i> . <i>Pest Management Science</i> , 2008, 64, 646-653.	3.4	16
32	Aryl methylcarbamates: Potency and selectivity towards wild-type and carbamate-insensitive (G119S) <i>Anopheles gambiae</i> acetylcholinesterase, and toxicity to G3 strain <i>An. gambiae</i> . <i>Chemico-Biological Interactions</i> , 2013, 203, 314-318.	4.0	15
33	Toxicology of potassium channel-directed compounds in mosquitoes. <i>NeuroToxicology</i> , 2017, 60, 214-223.	3.0	15
34	Discovery of Species-selective and Resistance-breaking Anticholinesterase Insecticides for the Malaria Mosquito. <i>Current Medicinal Chemistry</i> , 2017, 24, 2946-2958.	2.4	14
35	Pharmacology of central octopaminergic and muscarinic pathways in <i>Drosophila melanogaster</i> larvae: Assessing the target potential of GPCRs. <i>Pesticide Biochemistry and Physiology</i> , 2018, 151, 53-58.	3.6	13
36	Toxicity and Physiological Actions of Carbonic Anhydrase Inhibitors to <i>Aedes aegypti</i> and <i>Drosophila melanogaster</i> . <i>Insects</i> , 2017, 8, 2.	2.2	12

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37	Voltage-gated chloride channel blocker DIDS as an acaricide for Varroa mites. <i>Pesticide Biochemistry and Physiology</i> , 2020, 167, 104603.	3.6	12
38	Co-Toxicity Factor Analysis Reveals Numerous Plant Essential Oils Are Synergists of Natural Pyrethrins against <i>Aedes aegypti</i> Mosquitoes. <i>Insects</i> , 2021, 12, 154.	2.2	11
39	Fatty Acid and Related Potassium Kv2 Channel Blockers: Toxicity and Physiological Actions on Mosquitoes. <i>Insects</i> , 2018, 9, 155.	2.2	10
40	Toxicity and disruption of midgut physiology in larvae of the European corn borer, <i>Ostrinia nubilalis</i> , by anion transporter blockers. <i>Archives of Insect Biochemistry and Physiology</i> , 2009, 70, 151-161.	1.5	9
41	A method for assessing chemically-induced paralysis in headless mosquito larvae. <i>MethodsX</i> , 2015, 2, 19-23.	1.6	9
42	A Survey of Chemoreceptive Responses on Different Mosquito Appendages. <i>Journal of Medical Entomology</i> , 2021, 58, 475-479.	1.8	9
43	Pyrethroid-Derived Acids and Alcohols: Bioactivity and Synergistic Effects on Mosquito Repellency and Toxicity. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 3061-3070.	5.2	9
44	N ^α -mono- and N ^α -diacyl derivatives of benzyl and arylhydrazines as contact insecticides against adult <i>Anopheles gambiae</i> . <i>Pesticide Biochemistry and Physiology</i> , 2017, 143, 33-38.	3.6	8
45	Asymmetric synthesis and structure-activity studies of the fungal metabolites colletorin A, colletochlorin A and their halogenated analogues. <i>Tetrahedron</i> , 2018, 74, 3912-3923.	1.9	8
46	Resistance to Permethrin, β -cyfluthrin, and Diazinon in Florida Horn Fly Populations. <i>Insects</i> , 2018, 9, 63.	2.2	8
47	Induction and inhibition of an apparent neuronal phenotype in <i>Spodoptera frugiperda</i> insect cells (Sf21) by chemical agents. <i>Invertebrate Neuroscience</i> , 2012, 12, 119-127.	1.8	7
48	Toxicity and Synergistic Activities of Chalcones Against <i>Aedes aegypti</i> (Diptera: Culicidae) and <i>Drosophila melanogaster</i> (Diptera: Drosophilidae). <i>Journal of Medical Entomology</i> , 2016, 54, tju183.	1.8	7
49	Nutritional status significantly affects toxicological endpoints in the CDC bottle bioassay. <i>Pest Management Science</i> , 2022, 78, 743-748.	3.4	7
50	Blockage of chloride channels and anion transporters with pesticidal natural products and their synthetic analogs. <i>Phytochemistry Reviews</i> , 2011, 10, 217-226.	6.5	6
51	Voltage-sensitive chloride ion channels in <i>Anopheles gambiae</i> Sua-1B cells. <i>Invertebrate Neuroscience</i> , 2013, 13, 57-62.	1.8	6
52	Acetylcholinesterase of the sand fly, <i>Phlebotomus papatasi</i> (Scopoli): construction, expression and biochemical properties of the G119S orthologous mutant. <i>Parasites and Vectors</i> , 2014, 7, 577.	2.5	6
53	Insecticide sensitivity of native chloride and sodium channels in a mosquito cell line. <i>Pesticide Biochemistry and Physiology</i> , 2016, 130, 59-64.	3.6	6
54	Insecticidal and repellent properties of novel trifluoromethylphenyl amides II. <i>Pesticide Biochemistry and Physiology</i> , 2018, 151, 40-46.	3.6	6

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55	Structure-Activity Relationship Analysis of Potential New Vapor-Active Insect Repellents. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 13960-13969.	5.2	6
56	Mode of action and toxicological effects of the sesquiterpenoid, nootkatone, in insects. <i>Pesticide Biochemistry and Physiology</i> , 2022, 183, 105085.	3.6	6
57	Voltage-Sensitive Potassium Kv2 Channels as New Targets for Insecticides. <i>ACS Symposium Series</i> , 2014, , 71-81.	0.5	5
58	ROLE OF SERUM AND ION CHANNEL BLOCK ON GROWTH AND HORMONALLY-INDUCED DIFFERENTIATION OF <i>Spodoptera frugiperda</i> (L.) INSECT CELLS. <i>Archives of Insect Biochemistry and Physiology</i> , 2015, 90, 131-139.	1.5	5
59	Bioactivities and modes of action of VUAA1. <i>Pest Management Science</i> , 2020, 77, 3685-3692.	3.4	5
60	Terpenoid-Induced Feeding Deterrence and Antennal Response of Honey Bees. <i>Insects</i> , 2020, 11, 83.	2.2	5
61	Testing new compounds for efficacy against <i>Varroa destructor</i> and safety to honey bees (<i>Apis mellifera</i>). <i>Journal of Applied Entomology</i> , 2021, 155, 107-114.	3.4	5
62	Screening for Enhancement of Permethrin Toxicity by Plant Essential Oils Against Adult Females of the Yellow Fever Mosquito (Diptera: Culicidae). <i>Journal of Medical Entomology</i> , 2020, 57, 1149-1156.	1.8	5
63	Bivalent Carbamates as Novel Control Agents of the Malaria Mosquito, <i>Anopheles gambiae</i> . <i>Chimia</i> , 2016, 70, 704-708.	0.6	4
64	Characterizing Permethrin and Etofenprox Resistance in Two Common Laboratory Strains of <i>Anopheles gambiae</i> (Diptera: Culicidae). <i>Insects</i> , 2018, 9, 146.	2.2	4
65	Mosquito Acetylcholinesterase as a Target for Novel Phenyl-Substituted Carbamates. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 1500.	2.6	4
66	Toxicity and mode of action of the aporphine plant alkaloid liriodenine on the insect GABA receptor. <i>Toxicon</i> , 2021, 201, 141-147.	1.6	4
67	Recording central neurophysiological output from mosquito larvae for neuropharmacological and insecticide resistance studies. <i>Journal of Insect Physiology</i> , 2021, 135, 104319.	2.0	4
68	Pharmacological Mapping of the Acetylcholinesterase Catalytic Gorge in Mosquitoes with Bis(n)-Tacrines. <i>ACS Symposium Series</i> , 2009, , 143-151.	0.5	3
69	Inhibition of <i>Blattella germanica</i> Acetylcholinesterase by Bis(n)-Tacrines: Prospects for the Molecular Design of a Selective Insecticide for a Household Pest.. <i>ACS Symposium Series</i> , 2010, , 41-51.	0.5	3
70	Reduced expression of voltage-gated chloride channel genes in <i>Caenorhabditis elegans</i> : Implications for the mode of action of chloride channel-directed nematocides. <i>Pesticide Biochemistry and Physiology</i> , 2010, 97, 161-166.	3.6	3
71	Voltage-sensitive potassium channels expressed after 20-Hydroxyecdysone treatment of a mosquito cell line. <i>Insect Biochemistry and Molecular Biology</i> , 2017, 87, 75-80.	2.7	3
72	Insecticidal and repellent properties of novel trifluoromethylphenyl amides III. <i>Pesticide Biochemistry and Physiology</i> , 2019, 161, 5-11.	3.6	3

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73	Synergistic effects of potassium channel blockers and pyrethroids: mosquitocidal activity and neuronal mode of action. <i>Pest Management Science</i> , 2020, 77, 3673-3684.	3.4	3
74	Heterocyclic Amine-Induced Feeding Deterrence and Antennal Response of Honey Bees. <i>Insects</i> , 2021, 12, 69.	2.2	3
75	Sodium channel-directed alkaloids synergize the mosquitocidal and neurophysiological effects of natural pyrethrins. <i>Pesticide Biochemistry and Physiology</i> , 2022, 186, 105171.	3.6	3
76	Electrophysiological Recording of The Central Nervous System Activity of Third-Instar <i>Drosophila Melanogaster</i> . <i>Journal of Visualized Experiments</i> , 2018, .	0.3	2
77	Insecticidal Activity and Physiological Actions of Matrine, a Plant Natural Product. <i>ACS Symposium Series</i> , 2018, , 175-186.	0.5	2
78	Induction Coil Heating Improves the Efficiency of Insect Olfactory Studies. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	2.2	2
79	Mosquitocidal activity of p,p'-difluoro-diphenyl-trichloroethane (DFDT). <i>Pesticide Biochemistry and Physiology</i> , 2020, 170, 104686.	3.6	2
80	NEUROTOXICOLOGY OF BIS(4-ACETACRINES ON <i>Blattella germanica</i> AND <i>Drosophila melanogaster</i> ACETYLCHOLINESTERASE. <i>Archives of Insect Biochemistry and Physiology</i> , 2013, 83, 180-194.	1.5	1
81	Glutamate Receptor-Cation Channel Complex: An Unexploited Target for Mosquito Control. <i>ACS Symposium Series</i> , 2017, , 111-124.	0.5	1
82	Resistance-Breaking Insecticidal Activity of New Spatial Insecticides against <i>Aedes aegypti</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 9684-9692.	5.2	1
83	Enhanced pyrethroid potency in <i>Drosophila melanogaster</i> expressing voltage-gated potassium channel mutants: Insecticidal activity and neuronal action. <i>Pesticide Biochemistry and Physiology</i> , 2021, 178, 104940.	3.6	1
84	Novel pyrethroid derivatives as effective mosquito repellents and repellent synergists. , 2022, , 19-32.		1
85	Studies on the Volatiles Composition of Stored Sheep Wool, and Attractancy toward <i>Aedes aegypti</i> Mosquitoes. <i>Insects</i> , 2022, 13, 208.	2.2	1
86	Insect Voltage-Gated Chloride Channels as a Possible Insecticide Target Site. <i>ACS Symposium Series</i> , 2015, , 447-454.	0.5	0
87	Vapor phase repellency and insecticidal activity of pyridinyl amides against anopheline mosquitoes. <i>Current Research in Parasitology and Vector-borne Diseases</i> , 2021, 1, 100062.	1.9	0
88	Chemical Treatments for Insect Cell Differentiation: The Effects of 20-Hydroxyecdysone and Veratridine on Cultured <i>Spodoptera frugiperda</i> (Sf21) Insect Cell Ultrastructure. <i>Insects</i> , 2022, 13, 32.	2.2	0