

Ke Dong

List of Publications by Year in descending order

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85
papers

4,072
citations

136950

32
h-index

123424

61
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85
all docs

85
docs citations

85
times ranked

2827
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular biology of insect sodium channels and pyrethroid resistance. <i>Insect Biochemistry and Molecular Biology</i> , 2014, 50, 1-17.	2.7	361
2	Insect sodium channels and insecticide resistance. <i>Invertebrate Neuroscience</i> , 2007, 7, 17-30.	1.8	280
3	Diversity and convergence of sodium channel mutations involved in resistance to pyrethroids. <i>Pesticide Biochemistry and Physiology</i> , 2013, 106, 93-100.	3.6	235
4	Molecular evidence for dual pyrethroid-receptor sites on a mosquito sodium channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11785-11790.	7.1	223
5	Use of non-mammalian alternative models for neurotoxicological study. <i>NeuroToxicology</i> , 2008, 29, 546-555.	3.0	154
6	Detection of a new pyrethroid resistance mutation (V410L) in the sodium channel of <i>Aedes aegypti</i> : a potential challenge for mosquito control. <i>Scientific Reports</i> , 2017, 7, 46549.	3.3	146
7	Alternative Splicing of an Insect Sodium Channel Gene Generates Pharmacologically Distinct Sodium Channels. <i>Journal of Neuroscience</i> , 2002, 22, 5300-5309.	3.6	139
8	The insecticidal potential of scorpion \hat{I}^2 -toxins. <i>Toxicon</i> , 2007, 49, 473-489.	1.6	124
9	Identification of Amino Acid Residues in the Insect Sodium Channel Critical for Pyrethroid Binding. <i>Molecular Pharmacology</i> , 2005, 67, 513-522.	2.3	120
10	The differential preference of scorpion \hat{I}^{\pm} -toxins for insect or mammalian sodium channels: Implications for improved insect control. <i>Toxicon</i> , 2007, 49, 452-472.	1.6	109
11	Sodium Channel Mutations and Pyrethroid Resistance in <i>Aedes aegypti</i> . <i>Insects</i> , 2016, 7, 60.	2.2	105
12	Voltage-Gated Sodium Channels as Insecticide Targets. <i>Advances in Insect Physiology</i> , 2014, 46, 389-433.	2.7	100
13	RNA Editing Generates Tissue-specific Sodium Channels with Distinct Gating Properties. <i>Journal of Biological Chemistry</i> , 2004, 279, 32554-32561.	3.4	95
14	Linkage of kdr-Type resistance and the para-Homologous sodium channel gene in German cockroaches (<i>Blattella germanica</i>). <i>Insect Biochemistry and Molecular Biology</i> , 1994, 24, 647-654.	2.7	86
15	A sodium channel mutation identified in <i>Aedes aegypti</i> selectively reduces cockroach sodium channel sensitivity to type I, but not type II pyrethroids. <i>Insect Biochemistry and Molecular Biology</i> , 2011, 41, 9-13.	2.7	78
16	A Voltage-Gated Calcium-Selective Channel Encoded by a Sodium Channel-like Gene. <i>Neuron</i> , 2004, 42, 101-112.	8.1	67
17	Novel point mutations in the German cockroach para sodium channel gene are associated with knockdown resistance (kdr) to pyrethroid insecticides. <i>Insect Biochemistry and Molecular Biology</i> , 2000, 30, 991-997.	2.7	66
18	Molecular and functional characterization of voltage-gated sodium channel variants from <i>Drosophila melanogaster</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2008, 38, 604-610.	2.7	66

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19	Two novel sodium channel mutations associated with resistance to indoxacarb and metaflumizone in the diamondback moth, <i>Plutella xylostella</i> . <i>Insect Science</i> , 2016, 23, 50-58.	3.0	62
20	Association of novel mutations in a sodium channel gene with fluvalinate resistance in the mite, <i>Varroa destructor</i> . <i>Journal of Apicultural Research</i> , 2002, 41, 17-25.	1.5	59
21	Identification of New Batrachotoxin-sensing Residues in Segment IIS6 of the Sodium Channel. <i>Journal of Biological Chemistry</i> , 2011, 286, 13151-13160.	3.4	57
22	The Knockdown Resistance (kdr) Mutation in Pyrethroid-Resistant German Cockroaches. <i>Pesticide Biochemistry and Physiology</i> , 1998, 60, 195-204.	3.6	52
23	Persistent tetrodotoxin-sensitive sodium current resulting from U-to-C RNA editing of an insect sodium channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 11862-11867.	7.1	52
24	Mechanism of action of sodium channel blocker insecticides (SCBIs) on insect sodium channels. <i>Pesticide Biochemistry and Physiology</i> , 2010, 97, 87-92.	3.6	52
25	Molecular evidence of sequential evolution of DDT- and pyrethroid-resistant sodium channel in <i>Aedes aegypti</i> . <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007432.	3.0	49
26	Molecular characterization of an arachnid sodium channel gene from the varroa mite (<i>Varroa</i>) Tj ETQq0 0 0 rgBT /Oyerlock 10 Tf 50 462	2.7	47
27	Identification of a cluster of residues in transmembrane segment 6 of domain III of the cockroach sodium channel essential for the action of pyrethroid insecticides. <i>Biochemical Journal</i> , 2009, 419, 377-385.	3.7	41
28	Molecular basis of differential sensitivity of insect sodium channels to DCJW, a bioactive metabolite of the oxadiazine insecticide indoxacarb. <i>NeuroToxicology</i> , 2006, 27, 237-244.	3.0	40
29	Elucidation of pyrethroid and DDT receptor sites in the voltage-gated sodium channel. <i>NeuroToxicology</i> , 2017, 60, 171-177.	3.0	36
30	A Mutation in the Intracellular Loop III/IV of Mosquito Sodium Channel Synergizes the Effect of Mutations in Helix IIS6 on Pyrethroid Resistance. <i>Molecular Pharmacology</i> , 2015, 87, 421-429.	2.3	35
31	Block of Kir channels by flonicamid disrupts salivary and renal excretion of insect pests. <i>Insect Biochemistry and Molecular Biology</i> , 2018, 99, 17-26.	2.7	35
32	Molecular determinants on the insect sodium channel for the specific action of type II pyrethroid insecticides. <i>Toxicology and Applied Pharmacology</i> , 2009, 234, 266-272.	2.8	34
33	Molecular characterization and functional expression of the DSC1 channel. <i>Insect Biochemistry and Molecular Biology</i> , 2011, 41, 451-458.	2.7	33
34	Multiple mutations and mutation combinations in the sodium channel of permethrin resistant mosquitoes, <i>Culex quinquefasciatus</i> . <i>Scientific Reports</i> , 2012, 2, 781.	3.3	33
35	Molecular basis of selective resistance of the bumblebee <i>Bombus terrestris</i> sodium channel to tau-fluvalinate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12922-12927.	7.1	33
36	A dual-target molecular mechanism of pyrethrum repellency against mosquitoes. <i>Nature Communications</i> , 2021, 12, 2553.	12.8	31

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37	Rotational Symmetry of Two Pyrethroid Receptor Sites in the Mosquito Sodium Channel. <i>Molecular Pharmacology</i> , 2015, 88, 273-280.	2.3	29
38	Alternative splicing of the BSC1 gene generates tissue-specific isoforms in the German cockroach. <i>Insect Biochemistry and Molecular Biology</i> , 2001, 31, 703-713.	2.7	28
39	Functional Expression of an Arachnid Sodium Channel Reveals Residues Responsible for Tetrodotoxin Resistance in Invertebrate Sodium Channels. <i>Journal of Biological Chemistry</i> , 2009, 284, 33869-33875.	3.4	28
40	Chronology of sodium channel mutations associated with pyrethroid resistance in <i>Aedes aegypti</i> . <i>Archives of Insect Biochemistry and Physiology</i> , 2020, 104, e21686.	1.5	28
41	Synergistic interaction between two cockroach sodium channel mutations and a tobacco budworm sodium channel mutation in reducing channel sensitivity to a pyrethroid insecticide. <i>Insect Biochemistry and Molecular Biology</i> , 2002, 32, 397-404.	2.7	26
42	A residue in the transmembrane segment 6 of domain I in insect and mammalian sodium channels regulate differential sensitivities to pyrethroid insecticides. <i>NeuroToxicology</i> , 2013, 38, 42-50.	3.0	26
43	The Receptor Site and Mechanism of Action of Sodium Channel Blocker Insecticides. <i>Journal of Biological Chemistry</i> , 2016, 291, 20113-20124.	3.4	26
44	Molecular Mechanism of Action and Selectivity of Sodium Channel Blocker Insecticides. <i>Current Medicinal Chemistry</i> , 2017, 24, 2912-2924.	2.4	26
45	Action of six pyrethrins purified from the botanical insecticide pyrethrum on cockroach sodium channels expressed in <i>Xenopus</i> oocytes. <i>Pesticide Biochemistry and Physiology</i> , 2018, 151, 82-89.	3.6	25
46	Evolutionary Adaptation of the Amino Acid and Codon Usage of the Mosquito Sodium Channel following Insecticide Selection in the Field Mosquitoes. <i>PLoS ONE</i> , 2012, 7, e47609.	2.5	24
47	Role of the DSC1 Channel in Regulating Neuronal Excitability in <i>Drosophila melanogaster</i> : Extending Nervous System Stability under Stress. <i>PLoS Genetics</i> , 2013, 9, e1003327.	3.5	24
48	Evidence for Dual Binding Sites for 1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane (DDT) in Insect Sodium Channels. <i>Journal of Biological Chemistry</i> , 2016, 291, 4638-4648.	3.4	24
49	Effect of a fluvalinate-resistance-associated sodium channel mutation from varroa mites on cockroach sodium channel sensitivity to fluvalinate, a pyrethroid insecticide. <i>Insect Biochemistry and Molecular Biology</i> , 2006, 36, 885-889.	2.7	23
50	Substitutions in the Domain III Voltage-sensing Module Enhance the Sensitivity of an Insect Sodium Channel to a Scorpion β -Toxin. <i>Journal of Biological Chemistry</i> , 2011, 286, 15781-15788.	3.4	22
51	Behavioral and physiological responses of <i>Drosophila melanogaster</i> and <i>D. suzukii</i> to volatiles from plant essential oils. <i>Pest Management Science</i> , 2021, 77, 3698-3705.	3.4	22
52	A negative charge in transmembrane segment 1 of domain II of the cockroach sodium channel is critical for channel gating and action of pyrethroid insecticides. <i>Toxicology and Applied Pharmacology</i> , 2010, 247, 53-59.	2.8	21
53	Role of the sixth transmembrane segment of domain IV of the cockroach sodium channel in the action of sodium channel blocker insecticides. <i>NeuroToxicology</i> , 2009, 30, 613-621.	3.0	20
54	Molecular characterization of a sodium channel gene from the Silkworm <i>Bombyx mori</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2009, 39, 145-151.	2.7	19

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55	Analysis of the action of lidocaine on insect sodium channels. <i>Insect Biochemistry and Molecular Biology</i> , 2011, 41, 36-41.	2.7	19
56	Distinct roles of the DmNav and DSC1 channels in the action of DDT and pyrethroids. <i>NeuroToxicology</i> , 2015, 47, 99-106.	3.0	19
57	Mutations in the transmembrane helix S6 of domain IV confer cockroach sodium channel resistance to sodium channel blocker insecticides and local anesthetics. <i>Insect Biochemistry and Molecular Biology</i> , 2015, 66, 88-95.	2.7	19
58	An alanine in segment 3 of domain III (IIS3) of the cockroach sodium channel contributes to the low pyrethroid sensitivity of an alternative splice variant. <i>Insect Biochemistry and Molecular Biology</i> , 2006, 36, 161-168.	2.7	17
59	Sodium channel activation underlies transluthrin repellency in <i>Aedes aegypti</i> . <i>PLoS Neglected Tropical Diseases</i> , 2021, 15, e0009546.	3.0	17
60	Molecular characterization of DSC1 orthologs in invertebrate species. <i>Insect Biochemistry and Molecular Biology</i> , 2012, 42, 353-359.	2.7	16
61	Insight into the Mode of Action of Haedoxan A from <i>Phryma leptostachya</i> . <i>Toxins</i> , 2016, 8, 53.	3.4	14
62	Differential Effects of TipE and a TipE-Homologous Protein on Modulation of Gating Properties of Sodium Channels from <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2013, 8, e67551.	2.5	13
63	Batrachotoxin, Pyrethroids, and BTG 502 Share Overlapping Binding Sites on Insect Sodium Channels. <i>Molecular Pharmacology</i> , 2011, 80, 426-433.	2.3	12
64	Distinct roles of two RDL GABA receptors in fipronil action in the diamondback moth (<i>Plutella</i>). <i>Overlook</i> , 2010, 10, 50.	3.0	12
65	Mutations of two acidic residues at the cytoplasmic end of segment IIS6 of an insect sodium channel have distinct effects on pyrethroid resistance. <i>Insect Biochemistry and Molecular Biology</i> , 2017, 82, 1-10.	2.7	11
66	Alanine to valine substitutions in the pore helix III P1 and linker-helix III L45 confer cockroach sodium channel resistance to DDT and pyrethroids. <i>NeuroToxicology</i> , 2017, 60, 197-206.	3.0	11
67	Pyrethrins elicit olfactory response and spatial repellency in <i>Aedes albopictus</i> . <i>Pest Management Science</i> , 2021, 77, 3706-3712.	3.4	11
68	An important role of a pyrethroid-sensing residue F1519 in the action of the N-alkylamide insecticide BTG 502 on the cockroach sodium channel. <i>Insect Biochemistry and Molecular Biology</i> , 2011, 41, 446-450.	2.7	10
69	Intron Retention in mRNA Encoding Ancillary Subunit of Insect Voltage-Gated Sodium Channel Modulates Channel Expression, Gating Regulation and Drug Sensitivity. <i>PLoS ONE</i> , 2013, 8, e67290.	2.5	10
70	Discovery of a Novel Series of Tricyclic Oxadiazine 4a-Methyl Esters Based on Indoxacarb as Potential Sodium Channel Blocker/Modulator Insecticides. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 7793-7809.	5.2	10
71	Identification of multiple odorant receptors essential for pyrethrum repellency in <i>Drosophila melanogaster</i> . <i>PLoS Genetics</i> , 2021, 17, e1009677.	3.5	10
72	The <i>Drosophila</i> Sodium Channel 1 (DSC1): The founding member of a new family of voltage-gated cation channels. <i>Pesticide Biochemistry and Physiology</i> , 2015, 120, 36-39.	3.6	8

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73	Three sodium channel mutations from <i>Aedes albopictus</i> confer resistance to Type I, but not Type II pyrethroids. <i>Insect Biochemistry and Molecular Biology</i> , 2020, 123, 103411.	2.7	8
74	Mapping the interaction surface of scorpion β -toxins with an insect sodium channel. <i>Biochemical Journal</i> , 2021, 478, 2843-2869.	3.7	7
75	Bioallethrin activates specific olfactory sensory neurons and elicits spatial repellency in <i>Aedes aegypti</i> . <i>Pest Management Science</i> , 2022, 78, 438-445.	3.4	7
76	Distinct modulating effects of TipE-homologs 2 ⁴ on <i>Drosophila</i> sodium channel splice variants. <i>Insect Biochemistry and Molecular Biology</i> , 2015, 60, 24-32.	2.7	6
77	Mutational analysis of state-dependent contacts in the pore module of eukaryotic sodium channels. <i>Archives of Biochemistry and Biophysics</i> , 2018, 652, 59-70.	3.0	6
78	DSC1 channel-dependent developmental regulation of pyrethroid susceptibility in <i>Drosophila melanogaster</i> . <i>Pesticide Biochemistry and Physiology</i> , 2018, 148, 190-198.	3.6	6
79	Distinct functional properties of sodium channel variants are associated with usage of alternative exons in <i>Nilaparvata lugens</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2020, 118, 103292.	2.7	6
80	Voltage-Gated Sodium Channels as Insecticide Targets. , 0, , 167-176.		3
81	Sequence variations at I260 and A1731 contribute to persistent currents in <i>Drosophila</i> sodium channels. <i>Neuroscience</i> , 2014, 268, 297-308.	2.3	3
82	Molecular and functional characterization of a novel sodium channel TipE-like auxiliary subunit from the American cockroach <i>Periplaneta americana</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2015, 66, 136-144.	2.7	2
83	Charge substitutions at the voltage-sensing module of domain III enhance actions of site-3 and site-4 toxins on an insect sodium channel. <i>Insect Biochemistry and Molecular Biology</i> , 2021, 137, 103625.	2.7	2
84	Negative cross-resistance of a pyrethroid-resistant <i>Drosophila</i> mutant to <i>Phryma leptostachya</i> -derived haedoxan A. <i>Insect Science</i> , 2021, , .	3.0	1
85	<i>Bemisia tabaci</i> (Gennadius)-de β -ki Nikotinik Asetilkolin Reseptör Genin Klonlanmas. <i>Turkish Journal of Agriculture: Food Science and Technology</i> , 2020, 8, 2322-2329.	0.3	0