

Martin S Williamson

List of Publications by Year in descending order

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37
papers

4,344
citations

186265
28
h-index

330143
37
g-index

37
all docs

37
docs citations

37
times ranked

3730
citing authors

#	ARTICLE	IF	CITATIONS
1	The global status of insect resistance to neonicotinoid insecticides. <i>Pesticide Biochemistry and Physiology</i> , 2015, 121, 78-87.	3.6	711
2	DDT, pyrethrins, pyrethroids and insect sodium channels. <i>IUBMB Life</i> , 2007, 59, 151-162.	3.4	476
3	The evolution of insecticide resistance in the peach potato aphid, <i>Myzus persicae</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2014, 51, 41-51.	2.7	475
4	Resistance to diamide insecticides in diamondback moth, <i>Plutella xylostella</i> (Lepidoptera: Plutellidae) is associated with a mutation in the membrane-spanning domain of the ryanodine receptor. <i>Insect Biochemistry and Molecular Biology</i> , 2012, 42, 873-880.	2.7	255
5	Modelling insecticide-binding sites in the voltage-gated sodium channel. <i>Biochemical Journal</i> , 2006, 396, 255-263.	3.7	248
6	Unravelling the Molecular Determinants of Bee Sensitivity to Neonicotinoid Insecticides. <i>Current Biology</i> , 2018, 28, 1137-1143.e5.	3.9	234
7	Gene amplification and microsatellite polymorphism underlie a recent insect host shift. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19460-19465.	7.1	203
8	A sodium channel point mutation is associated with resistance to DDT and pyrethroid insecticides in the peach-potato aphid, <i>Myzus persicae</i> (Sulzer) (Hemiptera: Aphididae). <i>Insect Molecular Biology</i> , 1999, 8, 339-346.	2.0	185
9	Toxicological, Electrophysiological, and Molecular Characterisation of Knockdown Resistance to Pyrethroid Insecticides in the Diamondback Moth, <i>Plutella xylostella</i> (L.). <i>Pesticide Biochemistry and Physiology</i> , 1998, 59, 169-182.	3.6	137
10	Identification of pyrethroid resistance associated mutations in the sodium channel of the two-spotted spider mite <i>Tetranychus urticae</i> (Acari: Tetranychidae). <i>Insect Molecular Biology</i> , 2009, 18, 583-593.	2.0	99
11	Ion channels as insecticide targets. <i>Journal of Neurogenetics</i> , 2016, 30, 163-177.	1.4	84
12	Molecular and functional characterization of CYP6BQ23, a cytochrome P450 conferring resistance to pyrethroids in European populations of pollen beetle, <i>Meligethes aeneus</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2014, 45, 18-29.	2.7	83
13	A CRISPR/Cas9 mediated point mutation in the alpha 6 subunit of the nicotinic acetylcholine receptor confers resistance to spinosad in <i>Drosophila melanogaster</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2016, 73, 62-69.	2.7	79
14	Novel Mutations in the Voltage-Gated Sodium Channel of Pyrethroid-Resistant <i>Varroa destructor</i> Populations from the Southeastern USA. <i>PLoS ONE</i> , 2016, 11, e0155332.	2.5	74
15	A mutation (L1014F) in the voltage-gated sodium channel of the grain aphid, <i>Sitobion avenae</i> , is associated with resistance to pyrethroid insecticides. <i>Pest Management Science</i> , 2014, 70, 1249-1253.	3.4	73
16	Rapid selection for resistance to diamide insecticides in <i>Plutella xylostella</i> via specific amino acid polymorphisms in the ryanodine receptor. <i>NeuroToxicology</i> , 2017, 60, 224-233.	3.0	72
17	Characterization of the M918T sodium channel gene mutation associated with strong resistance to pyrethroid insecticides in the peach-potato aphid, <i>Myzus persicae</i> (Sulzer). <i>Bulletin of Entomological Research</i> , 2008, 98, 183-191.	1.0	69
18	Genomic insights into neonicotinoid sensitivity in the solitary bee <i>Osmia bicornis</i> . <i>PLoS Genetics</i> , 2019, 15, e1007903.	3.5	68

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19	An Amino Acid Substitution (L925V) Associated with Resistance to Pyrethroids in <i>Varroa destructor</i> . PLoS ONE, 2013, 8, e82941.	2.5	67
20	Stable expression and functional characterisation of the diamondback moth ryanodine receptor G4946E variant conferring resistance to diamide insecticides. Scientific Reports, 2015, 5, 14680.	3.3	67
21	High-throughput detection of knockdown resistance in <i>Myzus persicae</i> using allelic discriminating quantitative PCR. Insect Biochemistry and Molecular Biology, 2004, 34, 871-877.	2.7	62
22	Mutation (G275E) of the nicotinic acetylcholine receptor $\alpha 6$ subunit is associated with high levels of resistance to spinosyns in <i>Tuta absoluta</i> (Meyrick) (Lepidoptera: Gelechiidae). Pesticide Biochemistry and Physiology, 2016, 131, 1-8.	3.6	61
23	Global patterns in genomic diversity underpinning the evolution of insecticide resistance in the aphid crop pest <i>Myzus persicae</i> . Communications Biology, 2021, 4, 847.	4.4	55
24	Mutations on M3 helix of <i>Plutella xylostella</i> glutamate-gated chloride channel confer unequal resistance to abamectin by two different mechanisms. Insect Biochemistry and Molecular Biology, 2017, 86, 50-57.	2.7	46
25	Predictive 3D modelling of the interactions of pyrethroids with the voltage-gated sodium channels of ticks and mites. Pest Management Science, 2014, 70, 369-377.	3.4	41
26	Identification and functional characterisation of a novel N-cyanoamidine neonicotinoid metabolising cytochrome P450, CYP9Q6, from the buff-tailed bumblebee <i>Bombus terrestris</i> . Insect Biochemistry and Molecular Biology, 2019, 111, 103171.	2.7	39
27	Incidence, Spread and Mechanisms of Pyrethroid Resistance in European Populations of the Cabbage Stem Flea Beetle, <i>Psylliodes chrysocephala</i> L. (Coleoptera: Chrysomelidae). PLoS ONE, 2015, 10, e0146045.	2.5	38
28	The genetic architecture of a host shift: An adaptive walk protected an aphid and its endosymbiont from plant chemical defenses. Science Advances, 2020, 6, eaba1070.	10.3	37
29	Mutations in the sodium channel associated with pyrethroid resistance in the greenhouse whitefly, <i>Trialeurodes vaporariorum</i> . Pest Management Science, 2012, 68, 834-838.	3.4	35
30	Insecticide resistance status of <i>Myzus persicae</i> in Greece: long-term surveys and new diagnostics for resistance mechanisms. Pest Management Science, 2016, 72, 671-683.	3.4	34
31	Influence of the RDL A301S mutation in the brown planthopper <i>Nilaparvata lugens</i> on the activity of phenylpyrazole insecticides. Pesticide Biochemistry and Physiology, 2017, 142, 1-8.	3.6	30
32	New methods for the detection of insecticide resistant <i>Myzus persicae</i> in the U.K. suction trap network. Agricultural and Forest Entomology, 2008, 10, 291-295.	1.3	29
33	Evolution of imidacloprid resistance in <i>Myzus persicae</i> in Greece and susceptibility data for spirotetramat. Pest Management Science, 2017, 73, 1804-1812.	3.4	26
34	An evolutionarily unique heterodimeric voltage-gated cation channel found in aphids. FEBS Letters, 2015, 589, 598-607.	2.8	21
35	Mutations in the voltage-gated sodium channel gene associated with deltamethrin resistance in commercially sourced <i>Phytoseiulus persimilis</i> . Insect Molecular Biology, 2020, 29, 373-380.	2.0	12
36	Function and pharmacology of glutamate-gated chloride channel exon 9 splice variants from the diamondback moth <i>Plutella xylostella</i> . Insect Biochemistry and Molecular Biology, 2019, 104, 58-64.	2.7	10

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37	Molecular cloning, characterisation and mRNA expression of the ryanodine receptor from the peach-potato aphid, <i>Myzus persicae</i> . <i>Gene</i> , 2015, 556, 106-112.	2.2	9