Martin S Williamson

List of Publications by Year
in descending order

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	Global patterns in genomic diversity underpinning the evolution of insecticide resistance in the aphid crop pest Myzus persicae. Communications Biology, 2021, 4, 847.	4.4	55
2	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
3	Mutations in the voltageâ€gated sodium channel gene associated with deltamethrin resistance in commercially sourced Phytoseiulus persimilis. Insect Molecular Biology, 2020, 29, 373-380.	2.0	12
4	Identification and functional characterisation of a novel N-cyanoamidine neonicotinoid metabolising cytochrome P450, CYP9Q6, from the buff-tailed bumblebee Bombus terrestris. Insect Biochemistry and Molecular Biology, 2019, 111, 103171.	2.7	39
5	Genomic insights into neonicotinoid sensitivity in the solitary bee Osmia bicornis. PLoS Genetics, 2019, 15, e1007903.	3.5	68
6	Function and pharmacology of glutamate-gated chloride channel exon 9 splice variants from the diamondback moth Plutella xylostella. Insect Biochemistry and Molecular Biology, 2019, 104, 58-64.	2.7	10
7	Unravelling the Molecular Determinants of Bee Sensitivity to Neonicotinoid Insecticides. Current Biology, 2018, 28, 1137-1143.e5.	3.9	234
8	Rapid selection for resistance to diamide insecticides in Plutella xylostella via specific amino acid polymorphisms in the ryanodine receptor. NeuroToxicology, 2017, 60, 224-233.	3.0	72
9	Influence of the RDL A301S mutation in the brown planthopper Nilaparvata lugens on the activity of phenylpyrazole insecticides. Pesticide Biochemistry and Physiology, 2017, 142, 1-8.	3.6	30
10	Evolution of imidacloprid resistance in Myzus persicae in Greece and susceptibility data for spirotetramat. Pest Management Science, 2017, 73, 1804-1812.	3.4	26
11	Mutations on M3 helix of Plutella xylostella 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
12	Insecticide resistance status of Myzus persicae in Greece: longâ€term surveys and new diagnostics for resistance mechanisms. Pest Management Science, 2016, 72, 671-683.	3.4	34
13	A CRISPR/Cas9 mediated point mutation in the alpha 6 subunit of the nicotinic acetylcholine receptor confers resistance to spinosad in Drosophila melanogaster. Insect Biochemistry and Molecular Biology, 2016, 73, 62-69.	2.7	79
14	Ion channels as insecticide targets. Journal of Neurogenetics, 2016, 30, 163-177.	1.4	84
15	Mutation (G275E) of the nicotinic acetylcholine receptor Î±6 subunit is associated with high levels of resistance to spinosyns in Tuta absoluta (Meyrick) (Lepidoptera: Gelechiidae). Pesticide Biochemistry and Physiology, 2016, 131, 1-8.	3.6	61
16	Novel Mutations in the Voltage-Gated Sodium Channel of Pyrethroid-Resistant Varroa destructor Populations from the Southeastern USA. PLoS ONE, 2016, 11, e0155332.	2.5	74
17	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
18	Incidence, Spread and Mechanisms of Pyrethroid Resistance in European Populations of the Cabbage Stem Flea Beetle, Psylliodes chrysocephala L. (Coleoptera: Chrysomelidae). PLoS ONE, 2015, 10, e0146045.	2.5	38

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19	An evolutionarilyâ€unique heterodimeric voltageâ€gated cation channel found in aphids. FEBS Letters, 2015, 589, 598-607.	2.8	21
20	The global status of insect resistance to neonicotinoid insecticides. Pesticide Biochemistry and Physiology, 2015, 121, 78-87.	3.6	711
21	Molecular cloning, characterisation and mRNA expression of the ryanodine receptor from the peach-potato aphid, Myzus persicae. Gene, 2015, 556, 106-112.	2.2	9
22	Molecular and functional characterization of CYP6BQ23, a cytochrome P450 conferring resistance to pyrethroids in European populations of pollen beetle, Meligethes aeneus. Insect Biochemistry and Molecular Biology, 2014, 45, 18-29.	2.7	83
23	A mutation (<scp>L1014F</scp>) in the voltageâ€gated sodium channel of the grain aphid, Sitobion avenae, is associated with resistance toÂpyrethroid insecticides. Pest Management Science, 2014, 70, 1249-1253.	3.4	73
24	The evolution of insecticide resistance in the peach potato aphid, Myzus persicae. Insect Biochemistry and Molecular Biology, 2014, 51, 41-51.	2.7	475
25	Predictive <scp>3D</scp> modelling of the interactions of pyrethroids with the voltageâ€gated sodium channels of ticks and mites. Pest Management Science, 2014, 70, 369-377.	3.4	41
26	Gene amplification and microsatellite polymorphism underlie a recent insect host shift. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19460-19465.	7.1	203
27	An Amino Acid Substitution (L925V) Associated with Resistance to Pyrethroids in Varroa destructor. PLoS ONE, 2013, 8, e82941.	2.5	67
28	Resistance to diamide insecticides in diamondback moth, Plutella xylostella (Lepidoptera: Plutellidae) is associated with a mutation in the membrane-spanning domain of the ryanodine receptor. Insect Biochemistry and Molecular Biology, 2012, 42, 873-880.	2.7	255
29	Mutations in the sodium channel associated with pyrethroid resistance in the greenhouse whitefly, Trialeurodes vaporariorum. Pest Management Science, 2012, 68, 834-838.	3.4	35
30	Identification of pyrethroid resistance associated mutations in the para sodium channel of the twoâ€spotted spider mite Tetranychus urticae (Acari: Tetranychidae). Insect Molecular Biology, 2009, 18, 583-593.	2.0	99
31	New methods for the detection of insecticide resistant Myzus persicae in the U.K. suction trap network. Agricultural and Forest Entomology, 2008, 10, 291-295.	1.3	29
32	Characterization of the M918T sodium channel gene mutation associated with strong resistance to pyrethroid insecticides in the peach-potato aphid, Myzus persicae (Sulzer). Bulletin of Entomological Research, 2008, 98, 183-191.	1.0	69
33	DDT, pyrethrins, pyrethroids and insect sodium channels. IUBMB Life, 2007, 59, 151-162.	3.4	476
34	Modelling insecticide-binding sites in the voltage-gated sodium channel. Biochemical Journal, 2006, 396, 255-263.	3.7	248
35	High-throughput detection of knockdown resistance in Myzus persicae using allelic discriminating quantitative PCR. Insect Biochemistry and Molecular Biology, 2004, 34, 871-877.	2.7	62
36	A sodium channel point mutation is associated with resistance to DDT and pyrethroid insecticides in the peach-potato aphid, Myzus persicae (Sulzer) (Hemiptera: Aphididae). Insect Molecular Biology, 1999, 8, 339-346.	2.0	185

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37	Toxicological, Electrophysiological, and Molecular Characterisation of Knockdown Resistance to Pyrethroid Insecticides in the Diamondback Moth,Plutella xylostella(L.). Pesticide Biochemistry and Physiology, 1998, 59, 169-182.	3.6	137