

# Ian M Denholm

## List of Publications by Year in descending order

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94  
papers

8,950  
citations

36203

51  
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43802

91  
g-index

94  
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94  
docs citations

94  
times ranked

5256  
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.	1.6	711
2	Resistance of insect pests to neonicotinoid insecticides: Current status and future prospects. <i>Archives of Insect Biochemistry and Physiology</i> , 2005, 58, 200-215.	0.6	505
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.	1.2	475
4	Amplification of a Cytochrome P450 Gene Is Associated with Resistance to Neonicotinoid Insecticides in the Aphid <i>Myzus persicae</i> . <i>PLoS Genetics</i> , 2010, 6, e1000999.	1.5	398
5	From The Cover: A nicotinic acetylcholine receptor mutation conferring target-site resistance to imidacloprid in <i>Nilaparvata lugens</i> (brown planthopper). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 8420-8425.	3.3	380
6	Over-expression of cytochrome P450 CYP6CM1 is associated with high resistance to imidacloprid in the B and Q biotypes of <i>Bemisia tabaci</i> (Hemiptera: Aleyrodidae). <i>Insect Biochemistry and Molecular Biology</i> , 2008, 38, 634-644.	1.2	349
7	Insect-resistant transgenic plants. <i>Trends in Biotechnology</i> , 1998, 16, 168-175.	4.9	327
8	Discovery and Characterization of Sulfoxaflor, a Novel Insecticide Targeting Sap-Feeding Pests. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 2950-2957.	2.4	295
9	Mutation of a nicotinic acetylcholine receptor $\hat{1}^2$ subunit is associated with resistance to neonicotinoid insecticides in the aphid <i>Myzus persicae</i> . <i>BMC Neuroscience</i> , 2011, 12, 51.	0.8	275
10	Nicotinic acetylcholine receptors: targets for commercially important insecticides. <i>Invertebrate Neuroscience</i> , 2007, 7, 53-66.	1.8	229
11	Mitochondrial heteroplasmy and the evolution of insecticide resistance: Non-Mendelian inheritance in action. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 5980-5985.	3.3	225
12	Baseline determination and detection of resistance to imidacloprid in <i>Bemisia tabaci</i> (Homoptera: Aleyrodidae). <i>Bulletin of Entomological Research</i> , 1996, 86, 343-349.	0.5	219
13	Knockdown resistance (kdr) to DDT and pyrethroid insecticides maps to a sodium channel gene locus in the housefly ( <i>Musca domestica</i> ). <i>Molecular Genetics and Genomics</i> , 1993, 240, 17-22.	2.4	180
14	Characterisation of Insensitive Acetylcholinesterase in Insecticide-Resistant Cotton Aphids, <i>Aphis gossypii</i> Glover (Homoptera: Aphididae). <i>Pesticide Biochemistry and Physiology</i> , 1996, 56, 102-110.	1.6	156
15	Pyrethroid and organophosphate resistance in the tobacco whitefly <i>Bemisia tabaci</i> (Homoptera:) Tj ETQq1 1,0,784314 rgBT /Ove	0.5	149
16	Parasitoid behaviour and Bt plants. <i>Nature</i> , 1999, 400, 825-826.	13.7	139
17	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.	1.6	137
18	Potential side effects of insect-resistant transgenic plants on arthropod natural enemies. <i>Trends in Biotechnology</i> , 1999, 17, 210-216.	4.9	121

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19	A nicotinic acetylcholine receptor mutation (Y151S) causes reduced agonist potency to a range of neonicotinoid insecticides. <i>Journal of Neurochemistry</i> , 2006, 99, 1273-1281.	2.1	113
20	New developments in insecticide resistance in the glasshouse whitefly ( <i>Trialeurodes vaporariorum</i> ) and the two-spotted spider mite ( <i>Tetranychus urticae</i> ) in the UK. <i>Pest Management Science</i> , 2002, 58, 123-130.	1.7	107
21	Cross-resistance relationships between neonicotinoids and pymetrozine in <i>Bemisia tabaci</i> (Hemiptera: Aleyrodidae). <i>Pest Management Science</i> , 2010, 66, 1186-1190.	1.7	104
22	Inheritance of pyriproxyfen resistance in the whitefly, <i>Bemisia tabaci</i> (Q biotype). <i>Archives of Insect Biochemistry and Physiology</i> , 2003, 54, 177-186.	0.6	103
23	Association between Biochemical Markers and Insecticide Resistance in the Cotton Aphid, <i>Aphis gossypii</i> Glover. <i>Pesticide Biochemistry and Physiology</i> , 1998, 62, 164-171.	1.6	102
24	Cross-resistance relationships of the sulfoximine insecticide sulfoxaflor with neonicotinoids and other insecticides in the whiteflies <i>Bemisia tabaci</i> and <i>Trialeurodes vaporariorum</i> . <i>Pest Management Science</i> , 2013, 69, 809-813.	1.7	99
25	Pyrosequencing the transcriptome of the greenhouse whitefly, <i>Trialeurodes vaporariorum</i> reveals multiple transcripts encoding insecticide targets and detoxifying enzymes. <i>BMC Genomics</i> , 2011, 12, 56.	1.2	97
26	Report of resistance to the neonicotinoid insecticide imidacloprid in <i>Trialeurodes vaporariorum</i> (Hemiptera: Aleyrodidae). <i>Pest Management Science</i> , 2007, 63, 555-558.	1.7	96
27	Neonicotinoid resistance in rice brown planthopper, <i>Nilaparvata lugens</i> . <i>Pest Management Science</i> , 2008, 64, 1122-1125.	1.7	96
28	Delayed cuticular penetration and enhanced metabolism of deltamethrin in pyrethroid-resistant strains of <i>Helicoverpa armigera</i> from China and Pakistan. <i>Pest Management Science</i> , 2006, 62, 805-810.	1.7	95
29	Effects of Bt plants on the development and survival of the parasitoid <i>Cotesia plutellae</i> (Hymenoptera: Braconidae). <i>Journal of Insect Physiology</i> , 2004, 50, 435-443.	1.0784314	90
30	Mutation in acetylcholinesterase1 associated with triazophos resistance in rice stem borer, <i>Chilo suppressalis</i> (Lepidoptera: Pyralidae). <i>Biochemical and Biophysical Research Communications</i> , 2009, 378, 269-272.	1.0	90
31	Variation in response to neonicotinoid insecticides in peach-potato aphids, <i>Myzus persicae</i> (Hemiptera: Pemphigidae). <i>Journal of Insect Physiology</i> , 2007, 53, 88-94.	1.0784314	88
32	The biotype and insecticide-resistance status of whiteflies, <i>Bemisia tabaci</i> (Hemiptera: Aleyrodidae), invading cropping systems in Xinjiang Uygur Autonomous Region, northwestern China. <i>Crop Protection</i> , 2007, 26, 612-617.	1.0	88
33	Characterisation of imidacloprid resistance mechanisms in the brown planthopper, <i>Nilaparvata lugens</i> Stål (Hemiptera: Delphacidae). <i>Pesticide Biochemistry and Physiology</i> , 2010, 97, 129-132.	1.6	82
34	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.	1.7	73
35	Tritrophic choice experiments with bt plants, the diamondback moth ( <i>Plutella xylostella</i> ) and the parasitoid <i>Cotesia plutellae</i> . <i>Transgenic Research</i> , 2003, 12, 351-361.	1.3	72
36	Susceptibility of standard clones and European field populations of the green peach aphid, <i>Myzus persicae</i> , and the cotton aphid, <i>Aphis gossypii</i> (Hemiptera: Aphididae), to the novel anthranilic diamide insecticide cyantraniliprole. <i>Pest Management Science</i> , 2012, 68, 629-633.	1.7	72

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37	A microtitre plate assay for characterizing insensitive acetylcholinesterase genotypes of insecticide-resistant insects. <i>Bulletin of Entomological Research</i> , 1988, 78, 537-544.	0.5	70
38	Characterization of the structure-activity relationship of kdr and two variants of super-kdr to pyrethroids in the housefly ( <i>Musca domestica</i> L.). <i>Pest Management Science</i> , 1987, 19, 209-220.	0.7	69
39	The role of B-type esterases in conferring insecticide resistance in the tobacco whitefly, <i>Bemisia tabaci</i> (Genn.). <i>Pest Management Science</i> , 2000, 56, 867-874.	1.7	68
40	Detection of Resistance, Cross-Resistance, and Stability of Resistance to New Chemistry Insecticides in <i>Bemisia tabaci</i> (Homoptera: Aleyrodidae). <i>Journal of Economic Entomology</i> , 2013, 106, 1414-1422.	0.8	68
41	Age-specific expression of a P450 monooxygenase (CYP6CM1) correlates with neonicotinoid resistance in <i>Bemisia tabaci</i> . <i>Pesticide Biochemistry and Physiology</i> , 2011, 101, 53-58.	1.6	66
42	Resolution of baseline responses and documentation of resistance to buprofezin in <i>Bemisia tabaci</i> (Homoptera: Aleyrodidae). <i>Bulletin of Entomological Research</i> , 1996, 86, 117-122.	0.5	65
43	Insecticide resistance and biotype status of populations of the tobacco whitefly <i>Bemisia tabaci</i> (Hemiptera: Aleyrodidae) from Turkey. <i>Crop Protection</i> , 2008, 27, 600-605.	1.0	65
44	Evidence for multiple origins of identical insecticide resistance mutations in the aphid <i>Myzus persicae</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2005, 35, 249-256.	1.2	63
45	High-throughput detection of knockdown resistance in <i>Myzus persicae</i> using allelic discriminating quantitative PCR. <i>Insect Biochemistry and Molecular Biology</i> , 2004, 34, 871-877.	1.2	62
46	Age-specific expression of resistance to a neonicotinoid insecticide in the whitefly <i>Bemisia tabaci</i> . <i>Pest Management Science</i> , 2008, 64, 1106-1110.	1.7	58
47	Characterisation of Neonicotinoid and Pymetrozine Resistance in Strains of <i>Bemisia tabaci</i> (Hemiptera: Tj ETQq1 1,0,784314 rgBT /O...	1.7	58
48	Incidence and characterisation of resistance to neonicotinoid insecticides and pymetrozine in the greenhouse whitefly, <i>Trialeurodes vaporariorum</i> Westwood (Hemiptera: Aleyrodidae). <i>Pest Management Science</i> , 2010, 66, 1304-1307.	1.7	56
49	Isolation, Characterization, and Biological Activity of Naphthoquinones from <i>Calceolaria andina</i> L.. <i>Journal of Agricultural and Food Chemistry</i> , 1999, 47, 770-775.	2.4	55
50	Global patterns in genomic diversity underpinning the evolution of insecticide resistance in the aphid crop pest <i>Myzus persicae</i> . <i>Communications Biology</i> , 2021, 4, 847.	2.0	55
51	Biochemical identification of interbreeding between B-type and non B-type strains of the tobacco whitefly <i>Bemisia tabaci</i> . <i>Biochemical Genetics</i> , 1995, 33, 13-23.	0.8	54
52	Over-Expression of a Cytochrome P450 Is Associated with Resistance to Pyriproxyfen in the Greenhouse Whitefly <i>Trialeurodes vaporariorum</i> . <i>PLoS ONE</i> , 2012, 7, e31077.	1.1	54
53	Pollination biology of fruit-bearing hedgerow plants and the role of flower-visiting insects in fruit-set. <i>Annals of Botany</i> , 2009, 104, 1397-1404.	1.4	53
54	Behavioural side-effects of insecticide resistance in aphids increase their vulnerability to parasitoid attack. <i>Animal Behaviour</i> , 2007, 74, 621-632.	0.8	52

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55	Use of biochemical and DNA diagnostics for characterising multiple mechanisms of insecticide resistance in the peach-potato aphid, <i>Myzus persicae</i> (Sulzer). <i>Pest Management Science</i> , 1997, 51, 283-289.	0.7	47
56	A biochemical and toxicological study of the role of insensitive acetylcholinesterase in organophosphorus resistant <i>Bemisia tabaci</i> (Homoptera: Aleyrodidae) from Israel. <i>Bulletin of Entomological Research</i> , 1994, 84, 179-184.	0.5	46
57	Correlated responses to neonicotinoid insecticides in clones of the peach-potato aphid, <i>Myzus persicae</i> (Hemiptera: Aphididae). <i>Pest Management Science</i> , 2008, 64, 1111-1114.	1.7	46
58	Pollinator effectiveness and fruit set in common ivy, <i>Hedera helix</i> (Araliaceae). <i>Arthropod-Plant Interactions</i> , 2010, 4, 19-28.	0.5	46
59	High Resistance of Field Populations of the Cotton Aphid <i>Aphis gossypii</i> Glover (Homoptera: Aphididae) to Pyrethroid Insecticides in Pakistan. <i>Journal of Economic Entomology</i> , 2003, 96, 875-878.	0.8	44
60	The microimmersion bioassay: A novel method for the topical application of pesticides to spider mites. <i>Pest Management Science</i> , 1993, 39, 47-54.	0.7	42
61	Managing resistance to the insect growth regulator, pyriproxyfen, in <i>Bemisia tabaci</i> . <i>Pest Management Science</i> , 1999, 55, 272-276.	0.7	40
62	Novel point mutation in the sodium channel gene of pyrethroid-resistant sea lice <i>Lepeophtheirus salmonis</i> (Crustacea: Copepoda). <i>Diseases of Aquatic Organisms</i> , 2005, 65, 129-136.	0.5	40
63	Mutations in the sodium channel associated with pyrethroid resistance in the greenhouse whitefly, <i>Trialeurodes vaporariorum</i> . <i>Pest Management Science</i> , 2012, 68, 834-838.	1.7	35
64	Relationship between bioassay data and the simulated field performance of insecticides against susceptible and resistant adult <i>Bemisia tabaci</i> (Homoptera: Aleyrodidae). <i>Bulletin of Entomological Research</i> , 1996, 86, 109-116.	0.5	34
65	High-throughput allelic discrimination of B and Q biotypes of the whitefly, <i>Bemisia tabaci</i> , using TaqMan allele-selective PCR. <i>Pest Management Science</i> , 2008, 64, 12-15.	1.7	34
66	An Individual-Based Model of the Evolution of Pesticide Resistance in Heterogeneous Environments: Control of <i>Meligethes aeneus</i> Population in Oilseed Rape Crops. <i>PLoS ONE</i> , 2014, 9, e115631.	1.1	34
67	New methods for the detection of insecticide resistant <i>Myzus persicae</i> in the U.K. suction trap network. <i>Agricultural and Forest Entomology</i> , 2008, 10, 291-295.	0.7	29
68	Occurrence of target-site resistance to neonicotinoids in the aphid <i>Myzus persicae</i> in Tunisia, and its status on different host plants. <i>Pest Management Science</i> , 2018, 74, 1297-1301.	1.7	29
69	Resistance to Insecticides in the TYLCV vector, <i>Bemisia Tabaci</i> . , 2007, , 305-325.		28
70	Effects of piperonyl butoxide on <i>Bemisia tabaci</i> Genn. (Homoptera: Aleyrodidae): mortality, development, parasitism and predation in Israeli cotton fields. <i>Crop Protection</i> , 1998, 17, 717-726.	1.0	27
71	A New Group of Plant-Derived Naphthoquinone Pesticides. <i>Pest Management Science</i> , 1997, 50, 291-296.	0.7	24
72	Laboratory apparatus and techniques for the rearing and insecticidal treatment of whitefly <i>Bemisia tabaci</i> (Homoptera: Aleyrodidae) under simulated field conditions. <i>Bulletin of Entomological Research</i> , 1990, 80, 209-216.	0.5	23

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73	Molecular and morphological phylogenetics of the digitate-tubered clade within subtribe Orchidinae s.s. (Orchidaceae: Orchidoideae). <i>Kew Bulletin</i> , 2018, 73, 1.	0.4	23
74	Managing Resistance to the Chloronicotinyl Insecticides – Rhetoric or Reality?. , 1999, , 253-270.		23
75	Zero Tillage Systems Conserve Arbuscular Mycorrhizal Fungi, Enhancing Soil Glomalin and Water Stable Aggregates with Implications for Soil Stability. <i>Soil Systems</i> , 2021, 5, 4.	1.0	21
76	Multiple cis-acting elements involved in up-regulation of a cytochrome P450 gene conferring resistance to deltamethrin in a brown planthopper, <i>Laodelphax striatellus</i> (Fallén). <i>Insect Biochemistry and Molecular Biology</i> , 2016, 78, 20-28.	1.2	20
77	Negative cross-resistance between dihydropyrazole insecticides and pyrethroids in houseflies, <i>Musca domestica</i> . <i>Pest Management Science</i> , 2001, 57, 761-763.	1.7	19
78	Genetic variation in target-site resistance to pyrethroids and pirimicarb in Tunisian populations of the peach potato aphid, <i>Myzus persicae</i> (Sulzer) (Hemiptera: Aphididae). <i>Pest Management Science</i> , 2016, 72, 2313-2320.	1.7	16
79	A comparison of methodologies for the staining and quantification of intracellular components of arbuscular mycorrhizal fungi in the root cortex of two varieties of winter wheat. <i>Access Microbiology</i> , 2020, 2, acmi000083.	0.2	16
80	Negative Cross Resistance Mediated by Co-Treated Bed Nets: A Potential Means of Restoring Pyrethroid-Susceptibility to Malaria Vectors. <i>PLoS ONE</i> , 2014, 9, e95640.	1.1	15
81	Field-simulator studies of insecticide resistance to dimethylcarbamates and pyrethroids conferred by metabolic- and target site-based mechanisms in peach-potato aphids, <i>Myzus persicae</i> (Hemiptera: Tj ETQq1 1 0.784314 rgBT14/Overlo		
82	Use of an individual-based simulation model to explore and evaluate potential insecticide resistance management strategies. <i>Pest Management Science</i> , 2017, 73, 1364-1372.	1.7	14
83	Potential of Super-kdr resistance to deltamethrin and other pyrethroids by an intensifier (factor) Tj ETQq1 1 0.784314 rgBT14/Overlo	0.7	13
84	A Parasitic Wasp ( <i>Eretmocerus mundus</i> Mercet) Can Exploit Chemically Induced Delays in the Development Rates of Its Whitefly Host ( <i>Bemisia tabaci</i> Genn.). <i>Biological Control</i> , 2000, 19, 64-75.	1.4	11
85	Inheritance of L1014F and M918T sodium channel mutations associated with pyrethroid resistance in <i>Myzus persicae</i> . <i>Biology Letters</i> , 2008, 4, 545-548.	1.0	10
86	The Tripartite Rhizobacteria-AM Fungal-Host Plant Relationship in Winter Wheat: Impact of Multi-Species Inoculation, Tillage Regime and Naturally Occurring Rhizobacteria Species. <i>Plants</i> , 2021, 10, 1357.	1.6	9
87	Managing resistance to the insect growth regulator, pyriproxyfen, in <i>Bemisia tabaci</i> . <i>Pest Management Science</i> , 1999, 55, 272-276.	0.7	9
88	Ecological Determinants of <i>Bemisia tabaci</i> Resistance to Insecticides. , 2009, , 423-465.		8
89	Chlorpyrifos ethyl-oxon sensitive and insensitive acetylcholinesterase variants of greenhouse whitefly <i>Trialeurodes vaporariorum</i> (Westw.) (Hemiptera: Aleyrodidae) from Turkey. <i>Pesticide Biochemistry and Physiology</i> , 2012, 104, 273-276.	1.6	8
90	The response of pyriproxyfen-resistant and susceptible <i>Bemisia tabaci</i> Genn (Homoptera :Aleyrodidae) to pyriproxyfen and fenoxycarb alone and in combination with piperonyl butoxide. <i>Pest Management Science</i> , 1999, 55, 405-411.	0.7	8

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91	<i>In situ</i> morphometric survey elucidates the evolutionary systematics of the orchid genus <i>Gymnadenia</i> in the British Isles. <i>Systematics and Biodiversity</i> , 2021, 19, 571-600.	0.5	7
92	Detection of resistance to pyrethroid and neonicotinoid insecticides in the greenhouse whitefly, <i>Trialeurodes vaporariorum</i> (Westw.) (Hemiptera: Aleyrodidae). <i>Crop Protection</i> , 2021, 146, 105661.	1.0	5
93	New methods and strategies for monitoring susceptibility of fleas to current flea control products. <i>Veterinary Therapeutics: Research in Applied Veterinary Medicine</i> , 2006, 7, 86-98.	0.3	4
94	(1939) Proposal to conserve the name <i>Orchis occidentalis</i> against <i>O. kerryensis</i> (Orchidaceae). <i>Taxon</i> , 2010, 59, 977-978.	0.4	3