John G Vontas

List of Publications by Year
in descending order

226 papers	14,856 citations	23500 58 h-index	26548 107 g-index
245 all docs	245 docs citations	245 times ranked	9173 citing authors

#	Article	IF	Citations
1	Acaricide resistance mechanisms in the two-spotted spider mite Tetranychus urticae and other important Acari: A review. Insect Biochemistry and Molecular Biology, 2010, 40, 563-572.	1.2	626
2	Contemporary status of insecticide resistance in the major Aedes vectors of arboviruses infecting humans. PLoS Neglected Tropical Diseases, 2017, 11, e0005625.	1.3	504
3	Highly evolvable malaria vectors: The genomes of 16 <i>Anopheles</i> mosquitoes. Science, 2015, 347, 1258522.	6.0	492
4	Glutathione S-transferases as antioxidant defence agents confer pyrethroid resistance in Nilaparvata lugens. Biochemical Journal, 2001, 357, 65-72.	1.7	437
5	Over-expression of cytochrome P450 CYP6CM1 is associated with high resistance to imidacloprid in the B and Q biotypes of Bemisia tabaci (Hemiptera: Aleyrodidae). Insect Biochemistry and Molecular Biology, 2008, 38, 634-644.	1.2	349
6	A link between host plant adaptation and pesticide resistance in the polyphagous spider mite <i>Tetranychus urticae</i>. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E113-22.	3.3	347
7	Insecticide resistance in the major dengue vectors Aedes albopictus and Aedes aegypti. Pesticide Biochemistry and Physiology, 2012, 104, 126-131.	1.6	292
8	Glutathione S-transferases as antioxidant defence agents confer pyrethroid resistance in Nilaparvata lugens. Biochemical Journal, 2001, 357, 65.	1.7	284
9	The Anopheles gambiae detoxification chip: A highly specific microarray to study metabolic-based insecticide resistance in malaria vectors. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4080-4084.	3.3	282
10	Cytochrome P450 associated with insecticide resistance catalyzes cuticular hydrocarbon production in <i>Anopheles gambiae</i>. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9268-9273.	3.3	279
11	Detection of knockdown resistance (kdr) mutations in Anopheles gambiae: a comparison of two new high-throughput assays with existing methods. Malaria Journal, 2007, 6, 111.	0.8	273
12	An Overview of Insecticide Resistance. Science, 2002, 298, 96-97.	6.0	269
13	Insect cuticle: a critical determinant of insecticide resistance. Current Opinion in Insect Science, 2018, 27, 68-74.	2.2	264
14	Genome sequence of the Asian Tiger mosquito, <i>Aedes albopictus</i> , reveals insights into its biology, genetics, and evolution. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5907-15.	3.3	251
15	Cross-induction of detoxification genes by environmental xenobiotics and insecticides in the mosquito Aedes aegypti: Impact on larval tolerance to chemical insecticides. Insect Biochemistry and Molecular Biology, 2008, 38, 540-551.	1.2	246
16	Structural model and functional characterization of the Bemisia tabaci CYP6CM1vQ, a cytochrome P450 associated with high levels of imidacloprid resistance. Insect Biochemistry and Molecular Biology, 2009, 39, 697-706.	1.2	204
17	The role of glutathione S-transferases (GSTs) in insecticide resistance in crop pests and disease vectors. Current Opinion in Insect Science, 2018, 27, 97-102.	2.2	197
18	Gene expression in insecticide resistant and susceptible Anopheles gambiae strains constitutively or after insecticide exposure. Insect Molecular Biology, 2005, 14, 509-521.	1.0	183

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19	Heterologous expression of four glutathione transferase genes genetically linked to a major insecticide-resistance locus from the malaria vector Anopheles gambiae. Biochemical Journal, 2003, 373, 957-963.	1.7	166
20	Alternative strategies for mosquito-borne arbovirus control. PLoS Neglected Tropical Diseases, 2019, 13, e0006822.	1.3	165
21	Gene Amplification, ABC Transporters and Cytochrome P450s: Unraveling the Molecular Basis of Pyrethroid Resistance in the Dengue Vector, Aedes aegypti. PLoS Neglected Tropical Diseases, 2012, 6, e1692.	1.3	163
22	Management of insecticide resistance in the major Aedes vectors of arboviruses: Advances and challenges. PLoS Neglected Tropical Diseases, 2019, 13, e0007615.	1.3	162
23	The cys-loop ligand-gated ion channel gene family of Tetranychus urticae: Implications for acaricide toxicology and a novel mutation associated with abamectin resistance. Insect Biochemistry and Molecular Biology, 2012, 42, 455-465.	1.2	161
24	Purification, molecular cloning and heterologous expression of a glutathione S-transferase involved in insecticide resistance from the rice brown planthopper, Nilaparvata lugens. Biochemical Journal, 2002, 362, 329-337.	1.7	158
25	Abamectin is metabolized by CYP392A16, a cytochrome P450 associated with high levels of acaricide resistance in Tetranychus urticae. Insect Biochemistry and Molecular Biology, 2014, 46, 43-53.	1.2	155
26	The Role of Cytochrome P450s in Insect Toxicology and Resistance. Annual Review of Entomology, 2022, 67, 105-124.	5.7	149
27	Insecticide resistance in the tomato pinworm Tuta absoluta: patterns, spread, mechanisms, management and outlook. Journal of Pest Science, 2019, 92, 1329-1342.	1.9	147
28	Resistance-associated point mutations of organophosphate insensitive acetylcholinesterase, in the olive fruit fly Bactrocera oleae. Insect Molecular Biology, 2002, 11, 329-336.	1.0	144
29	Resistance mutation conserved between insects and mites unravels the benzoylurea insecticide mode of action on chitin biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14692-14697.	3.3	144
30	PCR-based detection of Plasmodium in Anopheles mosquitoes: a comparison of a new high-throughput assay with existing methods. Malaria Journal, 2008, 7, 177.	0.8	129
31	A sensory appendage protein protects malaria vectors from pyrethroids. Nature, 2020, 577, 376-380.	13.7	129
32	Control of the olive fruit fly using genetics-enhanced sterile insect technique. BMC Biology, 2012, 10, 51.	1.7	128
33	Transcriptional analysis of insecticide resistance in Anopheles stephensi using cross-species microarray hybridization. Insect Molecular Biology, 2007, 16, 315-324.	1.0	124
34	Current status of insecticide resistance in Q biotype <i>Bemisia tabaci</i> populations from Crete. Pest Management Science, 2009, 65, 313-322.	1.7	123
35	Ryanodine receptor point mutations confer diamide insecticide resistance in tomato leafminer, Tuta absoluta (Lepidoptera: Gelechiidae). Insect Biochemistry and Molecular Biology, 2017, 80, 11-20.	1.2	122
36	Contributions of cuticle permeability and enzyme detoxification to pyrethroid resistance in the major malaria vector Anopheles gambiae. Scientific Reports, 2017, 7, 11091.	1.6	117

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37	Insecticide resistance in Tephritid flies. Pesticide Biochemistry and Physiology, 2011, 100, 199-205.	1.6	116
38	Disruption of a horizontally transferred phytoene desaturase abolishes carotenoid accumulation and diapause in<i>Tetranychus urticae</i>. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5871-E5880.	3.3	114
39	Molecular analysis of resistance to acaricidal spirocyclic tetronic acids in Tetranychus urticae: CYP392E10 metabolizes spirodiclofen, but not its corresponding enol. Insect Biochemistry and Molecular Biology, 2013, 43, 544-554.	1.2	107
40	Transcription profiling of eleven cytochrome P450s potentially involved in xenobiotic metabolism in the mosquito <i>Aedes aegypti</i>. Insect Molecular Biology, 2010, 19, 185-193.	1.0	103
41	Identification of pyrethroid resistance associated mutations in the <i>para</i> sodium channel of the twoâ€spotted spider mite <i>Tetranychus urticae</i> (Acari: Tetranychidae). Insect Molecular Biology, 2009, 18, 583-593.	1.0	99
42	Purification, molecular cloning and heterologous expression of a glutathione S-transferase involved in insecticide resistance from the rice brown planthopper, Nilaparvata lugens. Biochemical Journal, 2002, 362, 329.	1.7	94
43	Characterization of inhibitors and substrates of Anopheles gambiae CYP6Z2. Insect Molecular Biology, 2008, 17, 125-135.	1.0	92
44	Pymetrozine is hydroxylated by <scp>CYP6CM1</scp>, a cytochrome <scp>P450</scp> conferring neonicotinoid resistance in <i>Bemisia tabaci</i>. Pest Management Science, 2013, 69, 457-461.	1.7	88
45	Rapid selection of a pyrethroid metabolic enzyme CYP9K1 by operational malaria control activities. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4619-4624.	3.3	88
46	Acetylcholinesterase point mutations in European strains of <i>Tetranychus urticae</i> (Acari:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	1.7	87
47	A mutation in the PSST homologue of complex I (NADH:ubiquinone oxidoreductase) from Tetranychus urticae is associated with resistance to METI acaricides. Insect Biochemistry and Molecular Biology, 2017, 80, 79-90.	1.2	82
48	The relative contribution of target-site mutations in complex acaricide resistant phenotypes as assessed by marker assisted backcrossing in Tetranychus urticae. Scientific Reports, 2017, 7, 9202.	1.6	81
49	Truncated transcripts of nicotinic acetylcholine subunit gene Bdî±6 are associated with spinosad resistance in Bactrocera dorsalis. Insect Biochemistry and Molecular Biology, 2012, 42, 806-815.	1.2	79
50	Comparison of esterase gene amplification, gene expression and esterase activity in insecticide susceptible and resistant strains of the brown planthopper, Nilaparvata lugens (Stal). Insect Molecular Biology, 2000, 9, 655-660.	1.0	78
51	Country-level operational implementation of the Global Plan for Insecticide Resistance Management. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9397-9402.	3.3	76
52	Functional characterization of the Tetranychus urticae CYP392A11, a cytochrome P450 that hydroxylates the METI acaricides cyenopyrafen and fenpyroximate. Insect Biochemistry and Molecular Biology, 2015, 65, 91-99.	1.2	72
53	Functional characterization of glutathione S-transferases associated with insecticide resistance in Tetranychus urticae. Pesticide Biochemistry and Physiology, 2015, 121, 53-60.	1.6	69
54	A glutathione-S-transferase (TuGSTd05) associated with acaricide resistance in Tetranychus urticae directly metabolizes the complex II inhibitor cyflumetofen. Insect Biochemistry and Molecular Biology, 2017, 80, 101-115.	1.2	68

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55	Global distribution and origin of target site insecticide resistance mutations in Tetranychus urticae. Insect Biochemistry and Molecular Biology, 2014, 48, 17-28.	1.2	67
56	Mechanisms of Acaricide Resistance in the Two-Spotted Spider Mite Tetranychus urticae. , 2009, , 347-393.		66
57	Investigation of the contribution of RyR target-site mutations in diamide resistance by CRISPR/Cas9 genome modification in Drosophila. Insect Biochemistry and Molecular Biology, 2017, 87, 127-135.	1.2	66
58	Genomewide transcriptional signatures of migratory flight activity in a globally invasive insect pest. Molecular Ecology, 2015, 24, 4901-4911.	2.0	65
59	Altered Acetylcholinesterase Confers Organophosphate Resistance in the Olive Fruit Fly Bactrocera oleae. Pesticide Biochemistry and Physiology, 2001, 71, 124-132.	1.6	64
60	A Simple Colorimetric Assay for Specific Detection of Glutathione-S Transferase Activity Associated with DDT Resistance in Mosquitoes. PLoS Neglected Tropical Diseases, 2010, 4, e808.	1.3	64
61	The <i>Anopheles gambiae</i> ATPâ€binding cassette transporter family: phylogenetic analysis and tissue localization provide clues on function and role in insecticide resistance. Insect Molecular Biology, 2018, 27, 110-122.	1.0	64
62	Cytochrome P450-based metabolic insecticide resistance in Anopheles and Aedes mosquito vectors: Muddying the waters. Pesticide Biochemistry and Physiology, 2020, 170, 104666.	1.6	64
63	Significance and interpretation of molecular diagnostics for insecticide resistance management of agricultural pests. Current Opinion in Insect Science, 2020, 39, 69-76.	2.2	64
64	Dissecting the organ specificity of insecticide resistance candidate genes in Anopheles gambiae: known and novel candidate genes. BMC Genomics, 2014, 15, 1018.	1.2	63
65	Assessment of the Bemisia tabaci CYP6CM1vQ transcript and protein levels in laboratory and field-derived imidacloprid-resistant insects and cross-metabolism potential of the recombinant enzyme. Insect Science, 2011, 18, 23-29.	1.5	62
66	Large-scale field trial of attractive toxic sugar baits (ATSB) for the control of malaria vector mosquitoes in Mali, West Africa. Malaria Journal, 2020, 19, 72.	0.8	61
67	Development of high-throughput real-time PCR assays for the identification of insensitive acetylcholinesterase (ace-1R) in Anopheles gambiae. Pesticide Biochemistry and Physiology, 2010, 96, 80-85.	1.6	60
68	Transcription analysis of neonicotinoid resistance in Mediterranean (MED) populations of B. tabaci reveal novel cytochrome P450s, but no nAChR mutations associated with the phenotype. BMC Genomics, 2015, 16, 939.	1.2	59
69	Transcriptomic responses of the olive fruit fly Bactrocera oleae and its symbiont Candidatus Erwinia dacicola to olive feeding. Scientific Reports, 2017, 7, 42633.	1.6	58
70	Genetic elimination of field-cage populations of Mediterranean fruit flies. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20141372.	1.2	57
71	Mosquitoes cloak their legs to resist insecticides. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191091.	1.2	56
72	Global patterns in genomic diversity underpinning the evolution of insecticide resistance in the aphid crop pest Myzus persicae. Communications Biology, 2021, 4, 847.	2.0	55

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73	Analysis of the Olive Fruit Fly Bactrocera oleae Transcriptome and Phylogenetic Classification of the Major Detoxification Gene Families. PLoS ONE, 2013, 8, e66533.	1.1	55
74	How do oral insecticidal compounds cross the insect midgut epithelium?. Insect Biochemistry and Molecular Biology, 2018, 103, 22-35.	1.2	54
75	Detection of resistance-associated point mutations of organophosphate-insensitive acetylcholinesterase in the olive fruit fly, Bactrocera oleae (Gmelin). Pesticide Biochemistry and Physiology, 2005, 81, 154-163.	1.6	53
76	Identification of mutations in the para sodium channel of Bemisia tabaci from Crete, associated with resistance to pyrethroids. Pesticide Biochemistry and Physiology, 2006, 85, 161-166.	1.6	53
77	Insecticide resistance status of the codling moth Cydia pomonella (Lepidoptera: Tortricidae) from Greece. Pesticide Biochemistry and Physiology, 2011, 100, 229-238.	1.6	53
78	Biological and molecular characterization of laboratory mutants of Cercospora beticola resistant to Qo inhibitors. European Journal of Plant Pathology, 2006, 116, 155-166.	0.8	52
79	Molecular characterization and detection of overexpressed C-14 alpha-demethylase-based DMI resistance in Cercospora beticola field isolates. Pesticide Biochemistry and Physiology, 2009, 95, 18-27.	1.6	52
80	Striking diflubenzuron resistance in Culex pipiens, the prime vector of West Nile Virus. Scientific Reports, 2017, 7, 11699.	1.6	52
81	Resurgence of the cotton bollworm <i>Helicoverpa armigera</i> in northern Greece associated with insecticide resistance. Insect Science, 2013, 20, 505-512.	1.5	51
82	Insecticide resistance is mediated by multiple mechanisms in recently introduced Aedes aegypti from Madeira Island (Portugal). PLoS Neglected Tropical Diseases, 2017, 11, e0005799.	1.3	51
83	Insecticide resistance in Bemisia tabaci from Cyprus. Insect Science, 2011, 18, 30-39.	1.5	50
84	Multiple recombination events between two cytochrome P450 loci contribute to global pyrethroid resistance in Helicoverpa armigera. PLoS ONE, 2018, 13, e0197760.	1.1	50
85	Rapid multiplex gene expression assays for monitoring metabolic resistance in the major malaria vector Anopheles gambiae. Parasites and Vectors, 2019, 12, 9.	1.0	50
86	Framework for rapid assessment and adoption of new vector control tools. Trends in Parasitology, 2014, 30, 191-204.	1.5	49
87	Transcriptome Profiling and Genetic Study Reveal Amplified Carboxylesterase Genes Implicated in Temephos Resistance, in the Asian Tiger Mosquito Aedes albopictus. PLoS Neglected Tropical Diseases, 2015, 9, e0003771.	1.3	49
88	Targeted mutagenesis using CRISPR-Cas9 in the chelicerate herbivore Tetranychus urticae. Insect Biochemistry and Molecular Biology, 2020, 120, 103347.	1.2	49
89	Efficacy of the pyrethroid alphaâ€cypermethrin against <i>Bactrocera oleae</i> populations from Greece, and improved diagnostic for an iAChE mutation. Pest Management Science, 2008, 64, 900-908.	1.7	45
90	Engineering sensitive glutathione transferase for the detection of xenobiotics. Biosensors and Bioelectronics, 2008, 24, 498-503.	5.3	45

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91	Distribution and hybridization of Culex pipiens forms in Greece during the West Nile virus outbreak of 2010. Infection, Genetics and Evolution, 2013, 16, 218-225.	1.0	45
92	Development of a lateral flow test to detect metabolic resistance in Bemisia tabaci mediated by CYP6CM1, a cytochrome P450 with broad spectrum catalytic efficiency. Pesticide Biochemistry and Physiology, 2015, 121, 3-11.	1.6	44
93	Two functionally distinct CYP4G genes of Anopheles gambiae contribute to cuticular hydrocarbon biosynthesis. Insect Biochemistry and Molecular Biology, 2019, 110, 52-59.	1.2	44
94	Tracking Insecticide Resistance in Mosquito Vectors of Arboviruses: The Worldwide Insecticide resistance Network (WIN). PLoS Neglected Tropical Diseases, 2016, 10, e0005054.	1.3	43
95	A Simple Biochemical Assay for Glutathione S-Transferase Activity and Its Possible Field Application for Screening Glutathione S-Transferase-Based Insecticide Resistance. Pesticide Biochemistry and Physiology, 2000, 68, 184-192.	1.6	42
96	Genomeâ€wide gene expression profiling reveals that cuticle alterations and P450 detoxification are associated with deltamethrin and DDT resistance in <i>Anopheles arabiensis</i> populations from Ethiopia. Pest Management Science, 2019, 75, 1808-1818.	1.7	42
97	â€˜What I cannot create, I do not understandâ€™: functionally validated synergism of metabolic and target site insecticide resistance. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20200838.	1.2	42
98	Reduced proinsecticide activation by cytochrome P450 confers coumaphos resistance in the major bee parasite <i>Varroa destructor</i>. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	42
99	Identification of a novel point mutation in the Î²-tubulin gene of Botrytis cinerea and detection of benzimidazole resistance by a diagnostic PCR-RFLP assay. European Journal of Plant Pathology, 2009, 125, 97-107.	0.8	41
100	The Vector Population Monitoring Tool (VPMT): High-Throughput DNA-Based Diagnostics for the Monitoring of Mosquito Vector Populations. Malaria Research and Treatment, 2010, 2010, 1-8.	2.0	41
101	Molecular diagnostics for detecting pyrethroid and organophosphate resistance mutations in the Q biotype of the whitefly Bemisia tabaci (Hemiptera: Aleyrodidae). Pesticide Biochemistry and Physiology, 2009, 94, 49-54.	1.6	40
102	A horizontally transferred cyanase gene in the spider mite Tetranychus urticae is involved in cyanate metabolism and is differentially expressed upon host plant change. Insect Biochemistry and Molecular Biology, 2012, 42, 881-889.	1.2	40
103	Fitness costs of key point mutations that underlie acaricide targetâ€site resistance in the twoâ€spotted spider mite <i>Tetranychus urticae</i>. Evolutionary Applications, 2018, 11, 1540-1553.	1.5	40
104	Heterologous expression of insect P450 enzymes that metabolize xenobiotics. Current Opinion in Insect Science, 2021, 43, 78-84.	2.2	40
105	Insecticide resistance status in the major West Nile virus vector <i>Culex pipiens</i> from Greece. Pest Management Science, 2014, 70, 623-627.	1.7	38
106	Identification and characterization of abamectin resistance in Tetranychus urticae Koch populations from greenhouses in Turkey. Crop Protection, 2018, 112, 112-117.	1.0	38
107	Substrate specificity and promiscuity of horizontally transferred UDP-glycosyltransferases in the generalist herbivore Tetranychus urticae. Insect Biochemistry and Molecular Biology, 2019, 109, 116-127.	1.2	38
108	Analysis of population structure and insecticide resistance in mosquitoes of the genus Culex , Anopheles and Aedes from different environments of Greece with a history of mosquito borne disease transmission. Acta Tropica, 2017, 174, 29-37.	0.9	37

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109	Molecular diagnostics for detecting pyrethroid and abamectin resistance mutations in Tetranychus urticae. Pesticide Biochemistry and Physiology, 2017, 135, 9-14.	1.6	37
110	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.	4.7	37
111	Carboxylesterase gene amplifications associated with insecticide resistance in Aedes albopictus: Geographical distribution and evolutionary origin. PLoS Neglected Tropical Diseases, 2017, 11, e0005533.	1.3	36
112	First evidence of resistance to pyrethroid insecticides in Italian <scp><i>Aedes albopictus</i></scp> populations 26â€‰years after invasion. Pest Management Science, 2018, 74, 1319-1327.	1.7	36
113	Using CRISPR/Cas9 genome modification to understand the genetic basis of insecticide resistance: Drosophila and beyond. Pesticide Biochemistry and Physiology, 2020, 167, 104595.	1.6	36
114	Activity of flonicamid on the sweet potato whitely <i>Bemisia tabaci</i> (Homoptera: Aleyrodidae) and its natural enemies. Pest Management Science, 2014, 70, 1460-1467.	1.7	35
115	Status of Insecticide Resistance and Its Mechanisms in Anopheles gambiae and Anopheles coluzzii Populations from Forest Settings in South Cameroon. Genes, 2019, 10, 741.	1.0	35
116	Molecular characterization of the amplified aldehyde oxidase from insecticide resistantCulex quinquefasciatus. FEBS Journal, 2002, 269, 768-779.	0.2	34
117	Affordable assays for genotyping single nucleotide polymorphisms in insects. Insect Molecular Biology, 2007, 16, 377-387.	1.0	33
118	Functional and immunohistochemical characterization of CCEae3a, a carboxylesterase associated with temephos resistance in the major arbovirus vectors Aedes aegypti and Ae. albopictus. Insect Biochemistry and Molecular Biology, 2016, 74, 61-67.	1.2	33
119	Identification and detection of indoxacarb resistance mutations in the <i>para</i> sodium channel of the tomato leafminer, <i>Tuta absoluta</i>. Pest Management Science, 2017, 73, 1679-1688.	1.7	33
120	Identification and geographical distribution ofÂpyrethroid resistance mutations in the poultry red mite <i>Dermanyssus gallinae</i>. Pest Management Science, 2020, 76, 125-133.	1.7	33
121	Vertically transmitted rhabdoviruses are found across three insect families and have dynamic interactions with their hosts. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20162381.	1.2	32
122	The evolution of multipleâ€insecticide resistance in UK populations of tomato leafminer, <i>Tuta absoluta</i>. Pest Management Science, 2019, 75, 2079-2085.	1.7	32
123	Detection and Monitoring of Insecticide Resistance Mutations in Anopheles gambiae: Individual vs Pooled Specimens. Genes, 2018, 9, 479.	1.0	31
124	Insecticide resistance status and mechanisms in Aedes aegypti populations from Senegal. PLoS Neglected Tropical Diseases, 2021, 15, e0009393.	1.3	31
125	Draft Genome Sequence of the <i>Bactrocera oleae</i> Symbiont â€œ <i>Candidatus</i> Erwinia dacicolaâ€. Genome Announcements, 2016, 4, .	0.8	30
126	Insecticide resistance in <i>Trialeurodes vaporariorum</i> populations and novel diagnostics for <i>kdr</i> mutations. Pest Management Science, 2018, 74, 59-69.	1.7	30

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127	Acoustic detection of DNA conformation in genetic assays combined with PCR. Scientific Reports, 2013, 3, 2033.	1.6	29
128	Mapping insecticide resistance and characterization of resistance mechanisms in Anopheles arabiensis (Diptera: Culicidae) in Ethiopia. Parasites and Vectors, 2017, 10, 407.	1.0	29
129	Overexpression of an alternative allele of carboxyl/choline esterase 4 (CCE04) of <i>Tetranychus urticae</i> is associated with high levels of resistance to the ketoâ€enol acaricide spirodiclofen. Pest Management Science, 2020, 76, 1142-1153.	1.7	29
130	Untangling a <scp>G</scp>ordian knot: the role of a <scp>GluCl3 I321T</scp> mutation in abamectin resistance in <i>Tetranychus urticae</i>. Pest Management Science, 2021, 77, 1581-1593.	1.7	29
131	MIRO and IRbase: IT Tools for the Epidemiological Monitoring of Insecticide Resistance in Mosquito Disease Vectors. PLoS Neglected Tropical Diseases, 2009, 3, e465.	1.3	28
132	Recent evolution and operational impact of insecticide resistance in olive fruit fly Bactrocera oleae populations from Greece. Journal of Pest Science, 2018, 91, 1429-1439.	1.9	28
133	Convergent evolution of cytochrome P450s underlies independent origins of keto-carotenoid pigmentation in animals. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191039.	1.2	28
134	Identification and functional characterization of a novel acetyl-CoA carboxylase mutation associated with ketoenol resistance in Bemisia tabaci. Pesticide Biochemistry and Physiology, 2020, 166, 104583.	1.6	28
135	Geographical distribution and evolutionary history of organophosphate-resistant Ace alleles in the olive fly (Bactrocera oleae). Insect Biochemistry and Molecular Biology, 2006, 36, 593-602.	1.2	27
136	Focal distribution of diflubenzuron resistance mutations in Culex pipiens mosquitoes from Northern Italy. Acta Tropica, 2019, 193, 106-112.	0.9	27
137	Only a minority of broad-range detoxification genes respond to a variety of phytotoxins in generalist Bemisia tabaci species. Scientific Reports, 2015, 5, 17975.	1.6	26
138	High insecticide resistance mediated by different mechanisms in Culex quinquefasciatus populations from the city of YaoundÃ©, Cameroon. Scientific Reports, 2021, 11, 7322.	1.6	26
139	High-resolution genetic mapping reveals cis-regulatory and copy number variation in loci associated with cytochrome P450-mediated detoxification in a generalist arthropod pest. PLoS Genetics, 2021, 17, e1009422.	1.5	26
140	Transgenic expression of the Aedes aegypti CYP9J28 confers pyrethroid resistance in Drosophila melanogaster. Pesticide Biochemistry and Physiology, 2012, 104, 132-135.	1.6	25
141	Identification of Climatic Factors Affecting the Epidemiology of Human West Nile Virus Infections in Northern Greece. PLoS ONE, 2016, 11, e0161510.	1.1	24
142	Detection of West Nile Virus â€" Lineage 2 in Culex pipiens mosquitoes, associated with disease outbreak in Greece, 2017. Acta Tropica, 2018, 182, 64-68.	0.9	24
143	International workshop on insecticide resistance in vectors of arboviruses, December 2016, Rio de Janeiro, Brazil. Parasites and Vectors, 2017, 10, 278.	1.0	23
144	Identification and characterization of striking multipleâ€insecticide resistance in a <i>Tetranychus urticae</i> field population from Greece. Pest Management Science, 2021, 77, 666-676.	1.7	23

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145	Quantification of pyrethroid insecticides from treated bednets using a mosquito recombinant glutathione S-transferase. Medical and Veterinary Entomology, 2001, 15, 58-63.	0.7	22
146	Use of Mutagenesis, Genetic Mapping and Next Generation Transcriptomics to Investigate Insecticide Resistance Mechanisms. PLoS ONE, 2012, 7, e40296.	1.1	22
147	Functional characterization of CYP6A51, a cytochrome P450 associated with pyrethroid resistance in the Mediterranean fruit fly Ceratitis capitata. Pesticide Biochemistry and Physiology, 2019, 157, 196-203.	1.6	22
148	Effect of DMI-resistance mechanisms on cross-resistance patterns, fitness parameters and aflatoxin production in Aspergillus parasiticus Speare. Fungal Genetics and Biology, 2012, 49, 792-801.	0.9	21
149	<i>Tetranychus urticae</i> mites do not mount an induced immune response against bacteria. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170401.	1.2	21
150	Molecular and genetic analysis of resistance to METI-I acaricides in Iranian populations of the citrus red mite Panonychus citri. Pesticide Biochemistry and Physiology, 2020, 164, 73-84.	1.6	21
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