Yi-Dong Wu

List of Publications by Year
in descending order

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107	5,635	57631	88477
papers	citations	44 h-index	70 g-index

109	109	109	2930
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Knockin of the G275E mutation of the nicotinic acetylcholine receptor (nAChR) Î±6 confers high levels of resistance to spinosyns in Spodoptera exigua. Insect Science, 2022, 29, 478-486.	1.5	14
2	Involvement of CYP2 and mitochondrial clan P450s of Helicoverpa armigera in xenobiotic metabolism. Insect Biochemistry and Molecular Biology, 2022, 140, 103696.	1.2	17
3	Population genomics provides insights into lineage divergence and local adaptation within the cotton bollworm. Molecular Ecology Resources, 2022, 22, 1875-1891.	2.2	18
4	Determinants of Insecticide Resistance Evolution: Comparative Analysis Among Heliothines. Annual Review of Entomology, 2022, 67, 387-406.	5.7	30
5	Global population genomic signature of Spodoptera frugiperda (fall armyworm) supports complex introduction events across the Old World. Communications Biology, 2022, 5, 297.	2.0	34
6	Equivalent intensity but differential dominance of SCBI resistance conferred by F1845Y and V1848I mutations of the voltageâ€gated sodium channel in Plutella xylostella. Insect Science, 2022, , .	1.5	2
7	Associations between acetylcholinesterase-1 mutations and chlorpyrifos resistance in beet armyworm, Spodoptera exigua. Pesticide Biochemistry and Physiology, 2022, 184, 105105.	1.6	4
8	Transcriptional Analysis of Cotton Bollworm Strains with Different Genetic Mechanisms of Resistance and Their Response to Bacillus thuringiensis Cry1Ac Toxin. Toxins, 2022, 14, 366.	1.5	2
9	Single amino acid variations drive functional divergence of cytochrome P450s in Helicoverpa species. Insect Biochemistry and Molecular Biology, 2022, 146, 103796.	1.2	13
10	High frequency of ryanodine receptor and cytochrome P450 CYP9A186 mutations in insecticide-resistant field populations of Spodoptera exigua from China. Pesticide Biochemistry and Physiology, 2022, 186, 105153.	1.6	8
11	Wholeâ€genome sequencing to detect mutations associated with resistance to insecticides and Bt proteins in Spodoptera frugiperda. Insect Science, 2021, 28, 627-638.	1.5	61
12	Multiple origins of a single point mutation in the cotton bollworm tetraspanin gene confers dominant resistance to Bt cotton. Pest Management Science, 2021, 77, 1169-1177.	1.7	13
13	CRISPR-mediated mutations in the ABC transporter gene ABCA2 confer pink bollworm resistance to Bt toxin Cry2Ab. Scientific Reports, 2021, 11, 10377.	1.6	23
14	Evaluating Cross-Resistance to Cry and Vip Toxins in Four Strains of Helicoverpa armigera With Different Genetic Mechanisms of Resistance to Bt Toxin Cry1Ac. Frontiers in Microbiology, 2021, 12, 670402.	1.5	6
15	Varying contributions of three ryanodine receptor point mutations to diamide insecticide resistance in Plutella xylostella. Pest Management Science, 2021, 77, 4874-4883.	1.7	21
16	Genome mapping coupled with CRISPR gene editing reveals a P450 gene confers avermectin resistance in the beet armyworm. PLoS Genetics, 2021, 17, e1009680.	1.5	44
17	Pyrethroid metabolism by eleven Helicoverpa armigera P450s from the CYP6B and CYP9A subfamilies. Insect Biochemistry and Molecular Biology, 2021, 135, 103597.	1.2	27
18	Cadherin Protein Is Involved in the Action of Bacillus thuringiensis Cry1Ac Toxin in Ostrinia furnacalis. Toxins, 2021, 13, 658.	1.5	10

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19	Independent and Synergistic Effects of Knocking out Two ABC Transporter Genes on Resistance to Bacillus thuringiensis Toxins Cry1Ac and Cry1Fa in Diamondback Moth. Toxins, 2021, 13, 9.	1.5	20
20	Knockout of three aminopeptidase N genes does not affect susceptibility of Helicoverpa armigera larvae to Bacillus thuringiensis Cry1A and Cry2A toxins. Insect Science, 2020, 27, 440-448.	1.5	12
21	Identification of the ryanodine receptor mutation I4743M and its contribution to diamide insecticide resistance in Spodoptera exigua (Lepidoptera: Noctuidae). Insect Science, 2020, 27, 791-800.	1.5	56
22	Genetic analysis and molecular detection of resistance to chlorpyrifos mediated by the A216S substitution in acetylcholinesteraseâ€1 in the plant bug Apolygus lucorum. Insect Science, 2020, 27, 1224-1232.	1.5	4
23	Disruption of nicotinic acetylcholine receptor Î±6 mediated by CRISPR/Cas9 confers resistance to spinosyns in Plutella xylostella. Pest Management Science, 2020, 76, 1618-1625.	1.7	31
24	Reverse genetics reveals contrary effects of two Rdl-homologous GABA receptors of Helicoverpa armigera on the toxicity of cyclodiene insecticides. Pesticide Biochemistry and Physiology, 2020, 170, 104699.	1.6	10
25	CRISPR/Cas9 mediated ryanodine receptor I4790M knockin confers unequal resistance to diamides in Plutella xylostella. Insect Biochemistry and Molecular Biology, 2020, 125, 103453.	1.2	32
26	<scp>CRISPR</scp>â€mediated gene knockout reveals nicotinic acetylcholine receptor (<scp>nAChR</scp>) subunit Î±6 as a target of spinosyns in Helicoverpa armigera. Pest Management Science, 2020, 76, 2925-2931.	1.7	20
27	Functional redundancy of two ABC transporter proteins in mediating toxicity of Bacillus thuringiensisÂto cotton bollworm. PLoS Pathogens, 2020, 16, e1008427.	2.1	55
28	Evaluation of five candidate receptors for three Bt toxins in the beet armyworm using CRISPR-mediated gene knockouts. Insect Biochemistry and Molecular Biology, 2020, 121, 103361.	1.2	32
29	Global gene expression changes induced by knockout of a protease gene cluster in Helicoverpa armigera with CRISPR/Cas9. Journal of Insect Physiology, 2020, 122, 104023.	0.9	11
30	Functional validation of nicotinic acetylcholine receptor <scp>(nAChR) Î±6</scp> as a target of spinosyns in <scp>Spodoptera exigua</scp> utilizing the <scp>CRISPR/Cas9</scp> system. Pest Management Science, 2020, 76, 2415-2422.	1.7	28
31	The mirid bug Apolygus lucorum deploys a glutathione peroxidase as a candidate effector to enhance plant susceptibility. Journal of Experimental Botany, 2020, 71, 2701-2712.	2.4	30
32	CRISPR-Mediated Knockout of the ABCC2 Gene in Ostrinia furnacalis Confers High-Level Resistance to the Bacillus thuringiensis Cry1Fa Toxin. Toxins, 2020, 12, 246.	1.5	39
33	Roles of the variable P450 substrate recognition sites SRS1 and SRS6 in esfenvalerate metabolism by CYP6AE subfamily enzymes in Helicoverpa armigera. Insect Biochemistry and Molecular Biology, 2020, 127, 103486.	1.2	14
34	Proteolysis activation of Cry1Ac and Cry2Ab protoxins by larval midgut juice proteases from Helicoverpa armigera. PLoS ONE, 2020, 15, e0228159.	1.1	11
35	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.	1.2	10
36	Longâ€term monitoring and characterization of resistance to chlorfenapyr in Plutella xylostella (Lepidoptera: Plutellidae) from China. Pest Management Science, 2019, 75, 591-597.	1.7	35

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37	Epistasis confers resistance to Bt toxin Cry1Ac in the cotton bollworm. Evolutionary Applications, 2018, 11, 809-819.	1.5	13
38	Phylogenetic and functional characterization of ten P450 genes from the CYP6AE subfamily of Helicoverpa armigera involved in xenobiotic metabolism. Insect Biochemistry and Molecular Biology, 2018, 93, 79-91.	1.2	75
39	Knockout of a Pâ€glycoprotein gene increases susceptibility to abamectin and emamectin benzoate in Spodoptera exigua. Insect Molecular Biology, 2018, 27, 36-45.	1.0	54
40	CYP6AE gene cluster knockout in Helicoverpa armigera reveals role in detoxification of phytochemicals and insecticides. Nature Communications, 2018, 9, 4820.	5.8	156
41	Dominant point mutation in a tetraspanin gene associated with field-evolved resistance of cotton bollworm to transgenic Bt cotton. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11760-11765.	3.3	116
42	Limited variations in susceptibility to an insecticidal double-stranded RNA (ds vATPaseE) among a laboratory strain and seven genetically differentiated field populations of Tribolium castaneum. Pesticide Biochemistry and Physiology, 2018, 149, 143-148.	1.6	5
43	Nextâ€generation transgenic cotton: pyramiding RNAi and Bt counters insect resistance. Plant Biotechnology Journal, 2017, 15, 1204-1213.	4.1	99
44	Intra- and extracellular domains of the Helicoverpa armigera cadherin mediate Cry1Ac cytotoxicity. Insect Biochemistry and Molecular Biology, 2017, 86, 41-49.	1.2	20
45	CRISPR/Cas9 mediated G4946E substitution in the ryanodine receptor of Spodoptera exigua confers high levels of resistance to diamide insecticides. Insect Biochemistry and Molecular Biology, 2017, 89, 79-85.	1.2	90
46	CRISPR/Cas9 mediated genome editing of Helicoverpa armigera with mutations of an ABC transporter gene HaABCA2 confers resistance to Bacillus thuringiensis Cry2A toxins. Insect Biochemistry and Molecular Biology, 2017, 87, 147-153.	1.2	95
47	Resistance to Bacillus thuringiensis toxin Cry2Ab and survival on singleâ€toxin and pyramided cotton in cotton bollworm from China. Evolutionary Applications, 2017, 10, 170-179.	1.5	29
48	Baseline Susceptibility of Field Populations of Helicoverpa armigera to Bacillus thuringiensis Vip3Aa Toxin and Lack of Cross-Resistance between Vip3Aa and Cry Toxins. Toxins, 2017, 9, 127.	1.5	21
49	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.	1.2	46
50	A point mutation in the glutamateâ€gated chloride channel of <scp>P</scp>lutella xylostella is associated with resistance to abamectin. Insect Molecular Biology, 2016, 25, 116-125.	1.0	56
51	Functional validation of cadherin as a receptor of Bt toxin Cry1Ac in Helicoverpa armigera utilizing the CRISPR/Cas9 system. Insect Biochemistry and Molecular Biology, 2016, 76, 11-17.	1.2	121
52	A three amino acid deletion in the transmembrane domain of the nicotinic acetylcholine receptor Î±6 subunit confers high-level resistance to spinosad in Plutella xylostella. Insect Biochemistry and Molecular Biology, 2016, 71, 29-36.	1.2	24
53	Dominant Inheritance of Field-Evolved Resistance to Fipronil inPlutella xylostella(Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Ove	0.8	23
54	Two novel sodium channel mutations associated with resistance to indoxacarb and metaflumizone in the diamondback moth, Plutella xylostella. Insect Science, 2016, 23, 50-58.	1.5	62

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55	Dual mode of action of Bt proteins: protoxin efficacy against resistant insects. Scientific Reports, 2015, 5, 15107.	1.6	59
56	Variation in P450-mediated fenvalerate resistance levels is not correlated with CYP337B3 genotype in Chinese populations of Helicoverpa armigera. Pesticide Biochemistry and Physiology, 2015, 121, 129-135.	1.6	28
57	Isomer-specific comparisons of the hydrolysis of synthetic pyrethroids and their fluorogenic analogues by esterases from the cotton bollworm Helicoverpa armigera. Pesticide Biochemistry and Physiology, 2015, 121, 102-106.	1.6	6
58	Cross-resistance and Inheritance of Resistance to Emamectin Benzoate inSpodoptera exigua(Lepidoptera: Noctuidae). Journal of Economic Entomology, 2015, 108, 2015-2020.	0.8	24
59	A point mutation in the acetylcholinesterase-1 gene is associated with chlorpyrifos resistance in the plant bug Apolygus lucorum. Insect Biochemistry and Molecular Biology, 2015, 65, 75-82.	1.2	24
60	Mutations in the transmembrane helix S6 of domain IV confer cockroach sodium channel resistance to sodium channel blocker insecticides and local anesthetics. Insect Biochemistry and Molecular Biology, 2015, 66, 88-95.	1.2	19
61	Large-scale test of the natural refuge strategy for delaying insect resistance to transgenic Bt crops. Nature Biotechnology, 2015, 33, 169-174.	9.4	167
62	Detection and Mechanisms of Resistance Evolved in Insects to Cry Toxins from Bacillus thuringiensis. Advances in Insect Physiology, 2014, 47, 297-342.	1.1	94
63	Dominant fitness costs of abamectin resistance in Plutella xylostella. Pest Management Science, 2014, 70, 1872-1876.	1.7	36
64	Cadherin mutation linked to resistance to Cry1Ac affects male paternity and sperm competition in Helicoverpa armigera. Journal of Insect Physiology, 2014, 70, 67-72.	0.9	6
65	Insecticide Resistance Status of Field Populations of <I>Spodoptera exigua</I> (Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Ov	0.8	116
66	DNA-based screening for an intracellular cadherin mutation conferring non-recessive Cry1Ac resistance in field populations of Helicoverpa armigera. Pesticide Biochemistry and Physiology, 2013, 107, 148-152.	1.6	22
67	Characterisation of fieldâ€evolved resistance to chlorantraniliprole in the diamondback moth, Plutella xylostella, from China. Pest Management Science, 2013, 69, 661-665.	1.7	119
68	Current Status of Insecticide Resistance in <I>Helicoverpa armigera</I> After 15 Years of Bt Cotton Planting in China. Journal of Economic Entomology, 2013, 106, 375-381.	0.8	114
69	Dominant resistance to <scp>B</scp>t cotton and minor crossâ€resistance to <scp>B</scp>t toxin <scp>C</scp>ry2Ab in cotton bollworm from <scp>C</scp>hina. Evolutionary Applications, 2013, 6, 1222-1235.	1.5	58
70	How many genetic options for evolving insecticide resistance in heliothine and spodopteran pests?. Pest Management Science, 2013, 69, 889-896.	1.7	42
71	Baseline Toxicity of Metaflumizone and Lack of Cross Resistance Between Indoxacarb and Metaflumizone in Diamondback Moth (Lepidoptera: Plutellidae). Journal of Economic Entomology, 2013, 106, 1423-1429.	0.8	30
72	Ketamine induces tau hyperphosphorylation at serine 404 in the hippocampus of neonatal rats. Neural Regeneration Research, 2013, 8, 1590-6.	1.6	7

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73	High Levels of Resistance to Chlorantraniliprole Evolved in Field Populations of <I>Plutella xylostella</I>. Journal of Economic Entomology, 2012, 105, 1019-1023.	0.8	190
74	Early detection of field-evolved resistance to Bt cotton in China: Cotton bollworm and pink bollworm. Journal of Invertebrate Pathology, 2012, 110, 301-306.	1.5	67
75	Proteomic and molecular analyses of esterases associated with monocrotophos resistance in Helicoverpa armigera. Pesticide Biochemistry and Physiology, 2012, 104, 243-251.	1.6	30
76	Non-Recessive Bt Toxin Resistance Conferred by an Intracellular Cadherin Mutation in Field-Selected Populations of Cotton Bollworm. PLoS ONE, 2012, 7, e53418.	1.1	61
77	Diverse genetic basis of field-evolved resistance to Bt cotton in cotton bollworm from China. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10275-10280.	3.3	158
78	Molecular cloning, characterization and mRNA expression of a ryanodine receptor gene from diamondback moth, Plutella xylostella. Pesticide Biochemistry and Physiology, 2012, 102, 204-212.	1.6	53
79	Efficacy of genetically modified Bt toxins against insects with different genetic mechanisms of resistance. Nature Biotechnology, 2011, 29, 1128-1131.	9.4	127
80	Overexpressed esterases in a fenvalerate resistant strain of the cotton bollworm, Helicoverpa armigera. Insect Biochemistry and Molecular Biology, 2011, 41, 14-21.	1.2	88
81	Early Warning of Cotton Bollworm Resistance Associated with Intensive Planting of Bt Cotton in China. PLoS ONE, 2011, 6, e22874.	1.1	135
82	Molecular cloning, genomic structure, and genetic mapping of two Rdlâ€orthologous genes of GABA receptors in the diamondback moth, Plutella xylostella. Archives of Insect Biochemistry and Physiology, 2010, 74, 81-90.	0.6	27
83	Dissipation and environmental fate of herbicide H-9201 in carrot plantings under field conditions. Food Chemistry, 2010, 119, 874-879.	4.2	12
84	Characterisation of abamectin resistance in a fieldâ€evolved multiresistant population of Plutella xylostella. Pest Management Science, 2010, 66, 371-378.	1.7	132
85	Biotype and insecticide resistance status of the whitefly Bemisia tabaci from China. Pest Management Science, 2010, 66, 1360-1366.	1.7	167
86	Esterase-based metabolic resistance to insecticides in heliothine and spodopteran pests. Journal of Pesticide Sciences, 2010, 35, 275-289.	0.8	51
87	Baseline Susceptibility of the Diamondback Moth (Lepidoptera: Plutellidae) to Chlorantraniliprole in China. Journal of Economic Entomology, 2010, 103, 843-848.	0.8	77
88	Diverse cadherin mutations conferring resistance to Bacillus thuringiensis toxin Cry1Ac in Helicoverpa armigera. Insect Biochemistry and Molecular Biology, 2010, 40, 113-118.	1.2	62
89	Characterization of resistance to Bacillus thuringiensis toxin Cry1Ac in Plutella xylostella from China. Journal of Invertebrate Pathology, 2010, 104, 90-96.	1.5	37
90	Introgression of a disrupted cadherin gene enables susceptibleHelicoverpa armigerato obtain resistance toBacillus thuringiensistoxin Cry1Ac. Bulletin of Entomological Research, 2009, 99, 175-181.	0.5	63

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91	Assessing the Susceptibility of Cruciferous Lepidoptera to Cry1Ba2 and Cry1Ca4 for Future Transgenic Cruciferous Vegetables. Journal of Economic Entomology, 2009, 102, 2217-2223.	0.8	9
92	Reduction of Bacillus thuringiensis Cry1Ac toxicity against Helicoverpa armigera by a soluble toxin-binding cadherin fragment. Journal of Insect Physiology, 2009, 55, 686-693.	0.9	25
93	Crossâ€resistance, inheritance and biochemical mechanisms of imidacloprid resistance in Bâ€biotype Bemisia tabaci. Pest Management Science, 2009, 65, 1189-1194.	1.7	91
94	A single linkage group confers dominant resistance to Bacillus thuringiensis Î´â€endotoxin Cry1Ac in Helicoverpa armigera. Journal of Applied Entomology, 2009, 133, 375-380.	0.8	6
95	Disruption of Ha_BtR alters binding of Bacillus thuringiensis Î´-endotoxin Cry1Ac to midgut BBMVs of Helicoverpa armigera. Journal of Invertebrate Pathology, 2008, 97, 27-32.	1.5	12
96	Heterorhabditidoides chongmingensis gen. nov., sp. nov. (Rhabditida: Rhabditidae), a novel member of the entomopathogenic nematodes. Journal of Invertebrate Pathology, 2008, 98, 153-168.	1.5	73
97	Functional expression of Helicoverpa armigera CYP9A12 and CYP9A14 in Saccharomyces cerevisiae. Pesticide Biochemistry and Physiology, 2008, 92, 101-105.	1.6	75
98	Mutated Cadherin Alleles from a Field Population of Helicoverpa armigera Confer Resistance to Bacillus thuringiensis Toxin Cry1Ac. Applied and Environmental Microbiology, 2007, 73, 6939-6944.	1.4	90
99	Crossâ€resistance and biochemical mechanisms of abamectin resistance in the Bâ€type Bemisia tabaci. Journal of Applied Entomology, 2007, 131, 98-103.	0.8	66
100	Constitutive Overexpression of Multiple Cytochrome P450 Genes Associated with Pyrethroid Resistance in <I>Helicoverpa armigera</I>. Journal of Economic Entomology, 2006, 99, 1784-1789.	0.8	61
101	Identification and molecular detection of a deletion mutation responsible for a truncated cadherin of Helicoverpa armigera. Insect Biochemistry and Molecular Biology, 2006, 36, 735-740.	1.2	43
102	Investigation of Resistance Mechanisms to Fipronil in Diamondback Moth (Lepidoptera: Plutellidae). Journal of Economic Entomology, 2006, 99, 914-919.	0.8	66
103	Constitutive Overexpression of Multiple Cytochrome P450 Genes Associated with Pyrethroid Resistance in Helicoverpa armigera. Journal of Economic Entomology, 2006, 99, 1784-1789.	0.8	107
104	Investigation of Resistance Mechanisms to Fipronil in Diamondback Moth (Lepidoptera: Plutellidae). Journal of Economic Entomology, 2006, 99, 914-919.	0.8	32
105	Correlation between Fenvalerate Resistance and Cytochrome P450-mediated <I>O</I>-Demethylation Activity in <I>Helicoverpa armigera</I> (Lepidoptera: Noctuidae). Journal of Economic Entomology, 2005, 98, 943-946.	0.8	38
106	Disruption of a Cadherin Gene Associated with Resistance to Cry1Ac Î´-Endotoxin of Bacillus thuringiensis in Helicoverpa armigera. Applied and Environmental Microbiology, 2005, 71, 948-954.	1.4	283
107	The involvement of microsomal oxidases in pyrethroid resistance in Helicoverpa armigera from Asia. Insect Biochemistry and Molecular Biology, 2004, 34, 763-773.	1.2	123