Pei Liang

List of Publications by Year
in descending order

62 papers	2,150 citations	201674 27 h-index	243625 44 g-index
62 all docs	62 docs citations	62 times ranked	1426 citing authors

#	ARTICLE	IF	CITATIONS
1	Overexpression of carboxylesterase gene associated with organophosphorous insecticide resistance in cotton aphids, Aphis gossypii (Glover). Pesticide Biochemistry and Physiology, 2008, 90, 175-180.	3.6	117
2	Novel mutations and mutation combinations of ryanodine receptor in a chlorantraniliprole resistant population of Plutella xylostella (L.). Scientific Reports, 2014, 4, 6924.	3.3	116
3	Sublethal and transgenerational effects of chlorantraniliprole on biological traits of the diamondback moth, Plutella xylostella L.. Crop Protection, 2013, 48, 29-34.	2.1	109
4	Over-expression of UDP-glycosyltransferase gene<i>UGT2B17</i>is involved in chlorantraniliprole resistance in<i>Plutella xylostella</i>(L.). Pest Management Science, 2017, 73, 1402-1409.	3.4	107
5	Overexpression of cytochrome P450 <i>CYP6BG1</i> may contribute to chlorantraniliprole resistance in <i>Plutella xylostella</i> (L.). Pest Management Science, 2018, 74, 1386-1393.	3.4	105
6	Short-term and transgenerational effects of the neonicotinoid nitenpyram on susceptibility to insecticides in two whitefly species. Ecotoxicology, 2012, 21, 1889-1898.	2.4	96
7	Characterization of UDPâ€glucuronosyltransferase genes and their possible roles in multiâ€insecticide resistance in <i>Plutella xylostella</i> (L.). Pest Management Science, 2018, 74, 695-704.	3.4	86
8	Beta-cypermethrin resistance associated with high carboxylesterase activities in a strain of house fly, Musca domestica (Diptera: Muscidae). Pesticide Biochemistry and Physiology, 2007, 89, 65-72.	3.6	73
9	Overexpression of multiple cytochrome P450 genes associated with sulfoxaflor resistance in Aphis gossypii Glover. Pesticide Biochemistry and Physiology, 2019, 157, 204-210.	3.6	68
10	Induction of the cytochrome P450 activity by plant allelochemicals in the cotton bollworm, Helicoverpa armigera (HÃ¼bner). Pesticide Biochemistry and Physiology, 2006, 84, 127-134.	3.6	65
11	Genome-wide identification of lncRNAs associated with chlorantraniliprole resistance in diamondback moth Plutella xylostella (L.). BMC Genomics, 2017, 18, 380.	2.8	64
12	Genetic basis of resistance and studies on cross-resistance in a population of diamondback moth,Plutella xylostella (Lepidoptera: Plutellidae). Pest Management Science, 2003, 59, 1232-1236.	3.4	60
13	Effects of host plants on insecticide susceptibility and carboxylesterase activity inBemisia tabaci biotype B and greenhouse whitefly,Trialeurodes vaporariorum. Pest Management Science, 2007, 63, 365-371.	3.4	59
14	Crossâ€resistance patterns and fitness in fufenozideâ€resistant diamondback moth, <i>Plutella xylostella</i> (Lepidoptera: Plutellidae). Pest Management Science, 2012, 68, 285-289.	3.4	58
15	miRNAs regulated overexpression of ryanodine receptor is involved in chlorantraniliprole resistance in Plutella xylostella (L.). Scientific Reports, 2015, 5, 14095.	3.3	56
16	Expression Profiling in Bemisia tabaci under Insecticide Treatment: Indicating the Necessity for Custom Reference Gene Selection. PLoS ONE, 2014, 9, e87514.	2.5	49
17	Biochemical Mechanism of Chlorantraniliprole Resistance in the Diamondback Moth, Plutella xylostella Linnaeus. Journal of Integrative Agriculture, 2014, 13, 2452-2459.	3.5	49
18	Identification and RNAiâ€based function analysis of chitinase family genes in diamondback moth, <i>Plutella xylostella</i>. Pest Management Science, 2019, 75, 1951-1961.	3.4	45

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19	Quantitative and qualitative changes of the carboxylesterase associated with beta-cypermethrin resistance in the housefly, Musca domestica (Diptera: Muscidae). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2010, 156, 6-11.	1.6	41
20	Detection of ryanodine receptor targetâ€site mutations in diamide insecticideâ€resistant <i>Spodoptera frugiperda</i> in China. Insect Science, 2021, 28, 639-648.	3.0	40
21	Cloning, characterisation and expression profiling of the cDNA encoding the ryanodine receptor in diamondback moth, <i>Plutella xylostella</i> (L.) (Lepidoptera: Plutellidae). Pest Management Science, 2012, 68, 1605-1614.	3.4	34
22	MicroRNA-998â€“3p contributes to Cry1Ac-resistance by targeting ABCC2 in lepidopteran insects. Insect Biochemistry and Molecular Biology, 2020, 117, 103283.	2.7	34
23	Coordinative mediation of the response to alarm pheromones by three odorant binding proteins in the green peach aphid Myzus persicae. Insect Biochemistry and Molecular Biology, 2021, 130, 103528.	2.7	33
24	Identification and Developmental Profiling of microRNAs in Diamondback Moth, Plutellaxylostella (L.). PLoS ONE, 2013, 8, e78787.	2.5	32
25	Identification of <scp>ABCG</scp> transporter genes associated with chlorantraniliprole resistance in <i>Plutella xylostella</i> (L.). Pest Management Science, 2021, 77, 3491-3499.	3.4	31
26	Regulation of GSTu1-mediated insecticide resistance in Plutella xylostella by miRNA and lncRNA. PLoS Genetics, 2021, 17, e1009888.	3.5	31
27	Global identification of microRNAs associated with chlorantraniliprole resistance in diamondback moth Plutella xylostella (L.). Scientific Reports, 2017, 7, 40713.	3.3	29
28	The stability and biochemical basis of fufenozide resistance in a laboratory-selected strain of Plutella xylostella. Pesticide Biochemistry and Physiology, 2011, 101, 80-85.	3.6	28
29	Inheritance of resistance to a new nonâ€steroidal ecdysone agonist, fufenozide, in the diamondback moth, <i>Plutella xylostella</i> (Lepidoptera: Plutellidae). Pest Management Science, 2010, 66, 406-411.	3.4	27
30	Differential mRNA expression levels and gene sequences of carboxylesterase in both deltamethrin resistant and susceptible strains of the cotton aphid, <i>Aphis gossypii</i>. Insect Science, 2008, 15, 209-216.	3.0	26
31	Transcription factor FTZâ€F1 and <i>cis</i>â€acting elements mediate expression of <i>CYP6BG1</i> conferring resistance to chlorantraniliprole inÂ<i>Plutella xylostella</i>. Pest Management Science, 2019, 75, 1172-1180.	3.4	26
32	Effect of temperature on toxicity of pyrethroids and endosulfan, activity of mitochondrial Na+â€“K+-ATPase and Ca2+â€“Mg2+-ATPase in Chilo suppressalis (Walker) (Lepidoptera: Pyralidae). Pesticide Biochemistry and Physiology, 2006, 86, 151-156.	3.6	25
33	Effects of high temperature on insecticide tolerance in whitefly Bemisia tabaci (Gennadius) Q biotype. Pesticide Biochemistry and Physiology, 2018, 150, 97-104.	3.6	25
34	Resistance and fitness costs in diamondback moths after selection using broflanilide, a novel metaâ€diamide insecticide. Insect Science, 2022, 29, 188-198.	3.0	24
35	Survey of organophosphate resistance and an Ala216Ser substitution of acetylcholinesterase-1 gene associated with chlorpyrifos resistance in Apolygus lucorum (Meyer-DÃ¼r) collected from the transgenic Bt cotton fields in China. Pesticide Biochemistry and Physiology, 2016, 132, 29-37.	3.6	18
36	Sublethal and transgenerational effects of afidopyropen on biological traits of the green peach aphid Myzus persicae (Sluzer). Pesticide Biochemistry and Physiology, 2022, 180, 104981.	3.6	18

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37	Quantification of Î³â€aminobutyric acid in the heads of houseflies (<i>Musca domestica</i>) and diamondback moths (<i>Plutella xylostella</i> (L.)), using capillary electrophoresis with laserâ€induced fluorescence detection. Journal of Separation Science, 2012, 35, 548-555.	2.5	17
38	Duplication of acetylcholinesterase gene in diamondback moth strains with different sensitivities to acephate. Insect Biochemistry and Molecular Biology, 2014, 48, 83-90.	2.7	16
39	miR-34-5p, a novel molecular target against lepidopteran pests. Journal of Pest Science, 2023, 96, 209-224.	3.7	16
40	Frequencies of the M918I mutation in the sodium channel of the diamondback moth in China, Thailand and Japan and its association with pyrethroid resistance. Pesticide Biochemistry and Physiology, 2012, 102, 142-145.	3.6	15
41	Overexpression of <i>PxÎ±E14</i> Contributing to Detoxification of Multiple Insecticides in <i>Plutella xylostella</i> (L.). Journal of Agricultural and Food Chemistry, 2022, 70, 5794-5804.	5.2	15
42	Functional analysis of a carboxylesterase gene involved in betaâ€cypermethrin and phoxim resistance in <i>Plutella xylostella</i> (L.). Pest Management Science, 2021, 77, 2097-2105.	3.4	14
43	HPLC Assay for Characterizing Î±-Cyano-3-phenoxybenzyl Pyrethroids Hydrolytic Metabolism by<i>Helicoverpa armigera</i>(HuÌˆbner) Based on the Quantitative Analysis of 3-Phenoxybenzoic Acid. Journal of Agricultural and Food Chemistry, 2010, 58, 694-701.	5.2	13
44	MiR-189942 regulates fufenozide susceptibility by modulating ecdysone receptor isoform B in Plutella xylostella (L.). Pesticide Biochemistry and Physiology, 2020, 163, 235-240.	3.6	12
45	Influence of seasonal migration on evolution of insecticide resistance in <i>Plutella xylostella</i>. Insect Science, 2022, 29, 496-504.	3.0	12
46	The capillary gas chromatographic properties of four Î²-cyclodextrin derivatives with allyl groups or propyl groups on 3-position or 6-position of Î²-cyclodextrin. Analytica Chimica Acta, 2005, 548, 86-94.	5.4	11
47	Silence of inositol 1,4,5-trisphosphate receptor expression decreases cyantraniliprole susceptibility in Bemisia tabaci. Pesticide Biochemistry and Physiology, 2017, 142, 162-169.	3.6	11
48	Genome-Wide Identification and Analysis of Chitinase-Like Gene Family in Bemisia tabaci (Hemiptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.2	11
49	Cloning, developmental and tissue-specific expression of Î³-aminobutyric acid (GABA) receptor alpha2 subunit gene in Spodoptera exigua (HÃ¼bner). Pesticide Biochemistry and Physiology, 2009, 93, 1-7.	3.6	10
50	cDNA cloning and characterization of the carboxylesterase pxCCE016b from the diamondback moth, Plutella xylostella L.. Journal of Integrative Agriculture, 2016, 15, 1059-1068.	3.5	10
51	Cloning, ligand-binding, and temporal expression of ecdysteroid receptors in the diamondback moth, Plutella xylostella. BMC Molecular Biology, 2012, 13, 32.	3.0	9
52	Fluorescent Probes for Insect Ryanodine Receptors: Candidate Anthranilic Diamides. Molecules, 2014, 19, 4105-4114.	3.8	8
53	A P-glycoprotein gene serves as a component of the protective mechanisms against 2-tridecanone and abamectin in Helicoverpa armigera. Gene, 2017, 627, 63-71.	2.2	8
54	Cloning and Functional Analysis of Two Ca²⁺-Binding Proteins (CaBPs) in Response to Cyantraniliprole Exposure in <i>Bemisia tabaci</i> (Hemiptera: Aleyrodidae). Journal of Agricultural and Food Chemistry, 2019, 67, 11035-11043.	5.2	8

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55	Upâ€regulation of calmodulin involved in the stress response to cyantraniliprole in the whitefly, Bemisia tabaci (Hemiptera: Aleyrodidae). Insect Science, 2020, 28, 1745-1755.	3.0	7
56	Sequencing and characterization of two cDNAs putatively encoding prophenoloxidases in the diamondback moth, Plutella xylostella (L.) (Lepidoptera: Yponomeutidae). Applied Entomology and Zoology, 2011, 46, 211-221.	1.2	6
57	Effects of pyrethroids and endosulfan on fluidity of mitochondria membrane in Chilo suppressalis (Walker). Pesticide Biochemistry and Physiology, 2009, 95, 72-76.	3.6	5
58	Identification of 1â€phenylâ€4â€cyanoâ€5â€aminopyrazoles as novel ecdysone receptor ligands by virtual screening, structural optimization, and biological evaluations. Chemical Biology and Drug Design, 2021, 97, 184-195.	3.2	4
59	Chromatographic Properties of 2,3-Di-O-allyl-6-O-acyl-Î²-cyclodextrins as Chiral Stationary Phases of Capillary GC. Chromatographia, 2010, 71, 539-544.	1.3	3
60	Omethoate-Induced Changes of (+)-Î´-Cadinene Synthase Activity and Gossypol Content in Cotton Seedlings. Journal of Integrative Agriculture, 2012, 11, 1682-1690.	3.5	2
61	Enantioseparation of Methyl 2-Hydroxypropionate with Two Peracylated Î²-Cyclodextrin Derivatives as CGC Chiral Stationary Phases. Chromatographia, 2014, 77, 517-522.	1.3	2
62	Characterization of carboxylesterase PxÎ±E8 and its role in multi-insecticide resistance in Plutella xylostella (L.). Journal of Integrative Agriculture, 2022, 21, 1713-1721.	3.5	1