Zhi-xiang Zhang

List of Publications by Year
in descending order

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81	1,265	471509	501196
papers	citations	17 h-index	28 g-index

86	86	86	970
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fumigation activity of essential oils of Cinnamomum loureirii toward red imported fire ant workers. Journal of Pest Science, 2023, 96, 647-662.	3.7	7
2	Dissipation and residue of dimethomorph in potato plants produced and dietary intake risk assessment. International Journal of Environmental Analytical Chemistry, 2022, 102, 1332-1344.	3.3	12
3	Dissipation and residue of fosthiazate in tomato and cherry tomato and a risk assessment of dietary intake. Environmental Science and Pollution Research, 2022, 29, 9248-9256.	5.3	7
4	Efficiency of mesoporous silica/carboxymethyl Î²-glucan as a fungicide nano-delivery system for improving chlorothalonil bioactivity and reduce biotoxicity. Chemosphere, 2022, 287, 131902.	8.2	14
5	Effects of sublethal azadirachtin on the immune response and midgut microbiome of Apis cerana cerana (Hymenoptera: Apidae). Ecotoxicology and Environmental Safety, 2022, 229, 113089.	6.0	7
6	Metabolic Changes in Larvae of Predator Chrysopa sinica Fed on Azadirachtin-Treated Plutella xylostella Larvae. Metabolites, 2022, 12, 158.	2.9	6
7	Pest Invasion-Responsive Hollow Mesoporous Silica-Linked Carboxymethyl Starch Nanoparticles for Smart Abamectin Delivery. ACS Applied Nano Materials, 2022, 5, 3458-3469.	5.0	12
8	Î²-Glucan-Functionalized Mesoporous Silica Nanoparticles for Smart Control of Fungicide Release and Translocation in Plants. ACS Omega, 2022, 7, 14807-14819.	3.5	8
9	A <scp>pH</scp>â€•and redoxâ€stimulated responsive hollow mesoporous silica for triggered delivery of fungicides to control downy mildew of Luffa cylindrica. Pest Management Science, 2022, 78, 3365-3375.	3.4	13
10	Variation in Rotenone and Deguelin Contents among Strains across Four Tephrosia Species and Their Activities against Aphids and Whiteflies. Toxins, 2022, 14, 339.	3.4	3
11	Residue and distribution of drip irrigation and spray application of two diamide pesticides in corn and dietary risk assessment for different consumer groups. Journal of the Science of Food and Agriculture, 2022, 102, 6676-6686.	3.5	5
12	Drip application of chlorantraniliprole effectively controls invasive Spodoptera frugiperda (Lepidoptera: Noctuidae) and its distribution in maize in China. Crop Protection, 2021, 143, 105474.	2.1	17
13	Azadirachtin downregulates the expression of the CREB gene and protein in the brain and directly or indirectly affects the cognitive behavior of the Spodoptera litura fourthâ€instar larvae. Pest Management Science, 2021, 77, 1873-1885.	3.4	5
14	Arbuscular mycorrhizal fungi improve uptake and control efficacy of carbosulfan on <scp>Spodoptera frugiperda</scp> in maize plants. Pest Management Science, 2021, 77, 2812-2819.	3.4	10
15	Azadirachtin directly or indirectly affects the abundance of intestinal flora of Spodoptera litura and the energy conversion of intestinal contents mediates the energy balance of intestine-brain axis, and along with decreased expression CREB in the brain neurons. Pesticide Biochemistry and Physiology, 2021, 173, 104778.	3.6	6
16	Discrimination of isomeric monosaccharide derivatives using collision-induced fingerprinting coupled to ion mobility mass spectrometry. Talanta, 2021, 224, 121901.	5.5	9
17	Preparation of alginateâ€“chitosan floating granules loaded with 2â€methylâ€4â€chlorophenoxy acetic acid (<scp>MCPA</scp>) and their bioactivity on water hyacinth. Pest Management Science, 2021, 77, 3942-3951.	3.4	8
18	Treating green pea aphids, Myzus persicae, with azadirachtin affects the predatory ability and protective enzyme activity of harlequin ladybirds, Harmonia axyridis. Ecotoxicology and Environmental Safety, 2021, 212, 111984.	6.0	14

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19	Insecticidal efficacy and mechanism of nanoparticles synthesized from chitosan and carboxymethyl chitosan against Solenopsis invicta (Hymenoptera: Formicidae). Carbohydrate Polymers, 2021, 260, 117839.	10.2	19
20	Fabricated chlorantraniliprole loaded chitosan/alginate hydrogel rings effectively control Spodoptera frugiperda in maize ears. Crop Protection, 2021, 143, 105539.	2.1	9
21	Using essential oils from Citrus paradisi as a fumigant for Solenopsis invicta workers and evaluating the oilsâ€™ effect on worker behavior. Environmental Science and Pollution Research, 2021, 28, 59665-59672.	5.3	9
22	Pathogenic Invasion-Responsive Carrier Based on Mesoporous Silica/Î²-Glucan Nanoparticles for Smart Delivery of Fungicides. ACS Sustainable Chemistry and Engineering, 2021, 9, 9126-9138.	6.7	28
23	Enhanced Control of the Fungus Gnat Bradysia odoriphaga (Diptera: Sciaridae) by Co-Application of Clothianidin and Hexaflumuron. Insects, 2021, 12, 571.	2.2	0
24	Examination of acephate absorption, transport, and accumulation in maize after root irrigation for Spodoptera frugiperda control. Environmental Science and Pollution Research, 2021, 28, 57361-57371.	5.3	11
25	Floating chitosan-alginate microspheres loaded with chlorantraniliprole effectively control Chilo suppressalis (Walker) and Sesamia inferens (Walker) in rice fields. Science of the Total Environment, 2021, 783, 147088.	8.0	13
26	Using Azadirachtin to Transform Spodoptera frugiperda from Pest to Natural Enemy. Toxins, 2021, 13, 541.	3.4	6
27	Carboxylated Î²-cyclodextrin anchored hollow mesoporous silica enhances insecticidal activity and reduces the toxicity of indoxacarb. Carbohydrate Polymers, 2021, 266, 118150.	10.2	31
28	Residue and dissipation of two formulations of emamectin benzoate in tender cowpea and old cowpea and a risk assessment of dietary intake. Food Chemistry, 2021, 361, 130043.	8.2	13
29	Effect of dimethoate in controlling Monolepta hieroglyphica (Motschulsky) and its distribution in maize by drip irrigation. Pest Management Science, 2020, 76, 1523-1530.	3.4	8
30	Drip chemigation of flonicamid effectively controls cotton aphid (Aphis gossypii) and is benign to lady beetle (Coccinella septempunctata) and lacewing larva (Chrysoperla sinica). Crop Protection, 2020, 129, 105039.	2.1	12
31	Antifeeding effects of azadirachtin on the fifth instar Spodoptera litura larvae and the analysis of azadirachtin on target sensilla around mouthparts. Archives of Insect Biochemistry and Physiology, 2020, 103, e21646.	1.5	15
32	The comparative metabolic response of Bactrocera dorsalis larvae to azadirachtin, pyriproxyfen and tebufenozide. Ecotoxicology and Environmental Safety, 2020, 189, 110020.	6.0	10
33	Toxicity and Sublethal Effects of Autumn Crocus (Colchicum autumnale) Bulb Powder on Red Imported Fire Ants (Solenopsis invicta). Toxins, 2020, 12, 731.	3.4	10
34	Eco-Friendly Castor Oil-Based Delivery System with Sustained Pesticide Release and Enhanced Retention. ACS Applied Materials & Interfaces, 2020, 12, 37607-37618.	8.0	55
35	Dissipation and distribution of pyraclostrobin in bananas at different temperature and a risk assessment of dietary intake. International Journal of Environmental Analytical Chemistry, 2020, , 1-13.	3.3	5
36	Plants in the Genus Tephrosia: Valuable Resources for Botanical Insecticides. Insects, 2020, 11, 721.	2.2	29

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37	Indoxacarb-Loaded Anionic Polyurethane Blend with Sodium Alginate Improves pH Sensitivity and Ecological Security for Potential Application in Agriculture. Polymers, 2020, 12, 1135.	4.5	14
38	Substrateâ€Controlled [5+1] Annulation of 5â€Aminoâ€1Hâ€phenylpyrazoles with Alkenes: Divergent Synthesis of Multisubstituted 4,5â€Dihydropyrazolo[1,5â€a]quinazolines. European Journal of Organic Chemistry, 2020, 2020, 3997-4003.	2.4	16
39	Enhanced uptake of <scp>dripâ€applied</scp> flonicamid by arbuscular mycorrhizal fungi and improved control of cotton aphid. Pest Management Science, 2020, 76, 4222-4230.	3.4	3
40	Preparation of sodium alginate-poly (vinyl alcohol) blend beads for base-triggered release of dinotefuran in Spodoptera litera midgut. Ecotoxicology and Environmental Safety, 2020, 202, 110935.	6.0	22
41	Dissipation and distribution of difenoconazole in bananas and a risk assessment of dietary intake. Environmental Science and Pollution Research, 2020, 27, 15365-15374.	5.3	19
42	Nanoparticle-immersed paper imprinting mass spectrometry imaging reveals uptake and translocation mechanism of pesticides in plants. Nano Research, 2020, 13, 611-620.	10.4	47
43	Sulfoxaflor Residues in Pollen and Nectar of Cotton Applied through Drip Irrigation and Their Potential Exposure to Apis mellifera L.. Insects, 2020, 11, 114.	2.2	15
44	Fabrication of sulfoxaflorâ€loaded natural polysaccharide floating hydrogel microspheres against <scp>Nilaparvata lugens</scp> (Stal) in rice fields. Pest Management Science, 2020, 76, 3046-3055.	3.4	11
45	Different lethal treatments induce changes in piperidine (1,1â€²-(1,2-ethanediyl)bis-) in the epidermal compounds of red imported fire ants and affect corpse-removal behavior. Ecotoxicology and Environmental Safety, 2020, 194, 110391.	6.0	4
46	Novel strategy with an eco-friendly polyurethane system to improve rainfastness of tea saponin for highly efficient rice blast control. Journal of Cleaner Production, 2020, 264, 121685.	9.3	22
47	Insecticidal Activity of the Leaf and Stem Water Extract of Gelsemium elegans against Solenopsis invicta. Sociobiology, 2020, 67, 232.	0.5	5
48	Sulfoxaflor Applied via Drip Irrigation Effectively Controls Cotton Aphid (Aphis gossypii Glover). Insects, 2019, 10, 345.	2.2	12
49	Azadirachtin A inhibits the growth and development of Bactrocera dorsalis larvae by releasing cathepsin in the midgut. Ecotoxicology and Environmental Safety, 2019, 183, 109512.	6.0	25
50	DMSO-mediated palladium-catalyzed cyclization of two isothiocyanates via Câ€“H sulfurization: a new route to 2-aminobenzothiazoles. RSC Advances, 2019, 9, 3403-3406.	3.6	6
51	The linker length of glucoseâ€“fipronil conjugates has a major effect on the rate of bioactivation by Î²â€glucosidase. Pest Management Science, 2019, 75, 708-717.	3.4	8
52	Uptake of soilâ€applied thiamethoxam in orange and its effect against Asian citrus psyllid in different seasons. Pest Management Science, 2019, 75, 1339-1345.	3.4	16
53	Rapid Trace Detection and Isomer Quantitation of Pesticide Residues via Matrix-Assisted Laser Desorption/Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Journal of Agricultural and Food Chemistry, 2018, 66, 3966-3974.	5.2	15
54	HFIP-Promoted Bischler Indole Synthesis under Microwave Irradiation. Molecules, 2018, 23, 3317.	3.8	4

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55	Synthesis of Novel Amino Acidâ€“Fipronil Conjugates and Study on Their Phloem Loading Mechanism. Molecules, 2018, 23, 778.	3.8	11
56	Volatile Component Analysis of Michelia alba Leaves and Their Effect on Fumigation Activity and Worker Behavior of Solenopsis invicta. Sociobiology, 2018, 65, 170.	0.5	10
57	Family of Ricinus communis Monosaccharide Transporters and RcSTP1 in Promoting the Uptake of a Glucoseâ€“Fipronil Conjugate. Journal of Agricultural and Food Chemistry, 2017, 65, 6169-6178.	5.2	14
58	Integrated analysis of 454 and Illumina transcriptomic sequencing characterizes carbon flux and energy source for fatty acid synthesis in developing Lindera glauca fruits for woody biodiesel. Biotechnology for Biofuels, 2017, 10, 134.	6.2	27
59	Addition of Cinnamon Oil Improves Toxicity of Rotenone toSpodoptera litura(Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock	0.5	4
60	Insecticidal Activity of the Soil in the Rhizosphere of Viburnum odoratissimum against Solenopsis invicta (Hymenoptera: Formicidae). Sociobiology, 2017, 64, 1.	0.5	8
61	Volatile Constituents from the Fruits ofLindera glauca(Sieb. et Zucc.) with Different Maturities. Journal of Essential Oil-bearing Plants: JEOP, 2016, 19, 926-935.	1.9	10
62	Dissipation, residue, and distribution of pyraclostrobin in banana and soil under field conditions in South China. International Journal of Environmental Analytical Chemistry, 2016, 96, 1367-1377.	3.3	16
63	Integrated transcriptome sequencing and dynamic analysis reveal carbon source partitioning between terpenoid and oil accumulation in developing Lindera glauca fruits. Scientific Reports, 2015, 5, 15017.	3.3	36
64	Transcriptome analysis of distinct Lindera glauca tissues revealed the differences in the unigenes related to terpenoid biosynthesis. Gene, 2015, 559, 22-30.	2.2	49
65	Transcriptomic analysis revealed the mechanism of oil dynamic accumulation during developing Siberian apricot (Prunus sibirica L.) seed kernels for the development of woody biodiesel. Biotechnology for Biofuels, 2015, 8, 29.	6.2	28
66	Laboratory evaluation of aqueous leaf extract of Tephrosia vogelii against larvae of Aedes albopictus (Diptera: Culicidae) and non-target aquatic organisms. Acta Tropica, 2015, 146, 36-41.	2.0	10
67	Selection of Reference Genes for Gene Expression Studies in Siberian Apricot (Prunus sibirica L.) Germplasm Using Quantitative Real-Time PCR. PLoS ONE, 2014, 9, e103900.	2.5	46
68	Insecticidal, Fumigant, and Repellent Activities of Sweet Wormwood Oil and Its Individual Components Against Red Imported Fire Ant Workers (Hymenoptera: Formicidae). Journal of Insect Science, 2014, 14, .	1.5	26
69	Effect of two formulations on the decline curves and residue levels of rotenone in cabbage and soil under field conditions. Ecotoxicology and Environmental Safety, 2014, 104, 23-27.	6.0	16
70	Dissipation and residue of triforine in strawberry and soil. Environmental Monitoring and Assessment, 2014, 186, 1377-1384.	2.7	2
71	Insecticidal Activity of the Whole Grass Extract of Typha angustifolia and its Active Component against Solenopsis invicta. Sociobiology, 2014, 60, .	0.5	6
72	Octahydrogenated retinoic acidâ€conjugated glycol chitosan nanoparticles as a novel carrier of azadirachtin: Synthesis, characterization, and in vitro evaluation. Journal of Polymer Science Part A, 2013, 51, 3932-3940.	2.3	18

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73	Dissipation and Residue of Rotenone in Cabbage and Soil Under Field Conditions. Bulletin of Environmental Contamination and Toxicology, 2013, 91, 251-255.	2.7	13
74	Fumigant Activity of Eight Plant Essential Oils Against Workers of Red Imported Fire Ant, Solenopsis invicta. Sociobiology, 2013, 60, 35-40.	0.5	22
75	Effects of hematoporphyrin monomethyl ether (HMME) on Worker Behavior of red imported fire ant, Solenopsis invcita. Sociobiology, 2013, 60, .	0.5	5
76	An SSH library responsive to azadirachtin A constructed in Spodoptera litura Fabricius cell lines. Journal of Biotechnology, 2012, 159, 115-120.	3.8	10
77	Identification and comparative profiling of microRNAs in wild-type Xanthoceras sorbifolia and its double flower mutant. Genes and Genomics, 2012, 34, 561-568.	1.4	14
78	Uptake and Phloem Transport of Glucose-Fipronil Conjugate in Ricinus communis Involve a Carrier-Mediated Mechanism. Journal of Agricultural and Food Chemistry, 2012, 60, 6088-6094.	5.2	49
79	Novel amphiphilic chitosan derivatives: Synthesis, characterization and micellar solubilization of rotenone. Carbohydrate Polymers, 2010, 82, 1136-1142.	10.2	102
80	Residue and distribution of fosthiazate in cucumber (Cucumis sativus L.) and dietary intake risk assessment for various populations. International Journal of Environmental Analytical Chemistry, 0, , 1-12.	3.3	1
81	Dissipation and residue of tebuconazole in banana (Musa nana L.) and dietary intake risk assessment for various populations. International Journal of Environmental Analytical Chemistry, 0, , 1-11.	3.3	2