

Ren-Sen Zeng

List of Publications by Year in descending order

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93
papers

4,559
citations

126907

33
h-index

114465

63
g-index

107
all docs

107
docs citations

107
times ranked

4741
citing authors

#	ARTICLE	IF	CITATIONS
1	Insect Response to Plant Defensive Protease Inhibitors. Annual Review of Entomology, 2015, 60, 233-252.	11.8	263
2	Priming of jasmonate-mediated antiherbivore defense responses in rice by silicon. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3631-9.	7.1	261
3	Physiological and cytological mechanisms of silicon-induced resistance in rice against blast disease. Physiologia Plantarum, 2008, 134, 324-333.	5.2	237
4	Enhanced tomato disease resistance primed by arbuscular mycorrhizal fungus. Frontiers in Plant Science, 2015, 6, 786.	3.6	211
5	Effects of boron, silicon and their interactions on cadmium accumulation and toxicity in rice plants. Journal of Hazardous Materials, 2019, 367, 447-455.	12.4	210
6	Silicon: Potential to Promote Direct and Indirect Effects on Plant Defense Against Arthropod Pests in Agriculture. Frontiers in Plant Science, 2016, 7, 744.	3.6	204
7	Interplant Communication of Tomato Plants through Underground Common Mycorrhizal Networks. PLoS ONE, 2010, 5, e13324.	2.5	194
8	Improving crop nutrient efficiency through root architecture modifications. Journal of Integrative Plant Biology, 2016, 58, 193-202.	8.5	191
9	The role of cytochrome P450-mediated detoxification in insect adaptation to xenobiotics. Current Opinion in Insect Science, 2021, 43, 103-107.	4.4	139
10	Priming of Anti-Herbivore Defense in Tomato by Arbuscular Mycorrhizal Fungus and Involvement of the Jasmonate Pathway. Journal of Chemical Ecology, 2013, 39, 1036-1044.	1.8	124
11	Control of Panama Disease of Banana by Rotating and Intercropping with Chinese Chive (<i>Allium</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 11	1.8	120
12	Rice Allelopathy Induced by Methyl Jasmonate and Methyl Salicylate. Journal of Chemical Ecology, 2007, 33, 1089-1103.	1.8	105
13	Silencing COI1 in Rice Increases Susceptibility to Chewing Insects and Impairs Inducible Defense. PLoS ONE, 2012, 7, e36214.	2.5	96
14	Hijacking common mycorrhizal networks for herbivore-induced defence signal transfer between tomato plants. Scientific Reports, 2014, 4, 3915.	3.3	88
15	Physiological and Biochemical Mechanism of Allelopathy of Secalonic Acid F on Higher Plants. Agronomy Journal, 2001, 93, 72-79.	1.8	83
16	Activation of CncC pathway by ROS burst regulates cytochrome P450 CYP6AB12 responsible for ß-cyhalothrin tolerance in <i>Spodoptera litura</i> . Journal of Hazardous Materials, 2020, 387, 121698.	12.4	80
17	A novel cytochrome P450 CYP6AB14 gene in <i>Spodoptera litura</i> (Lepidoptera: Noctuidae) and its potential role in plant allelochemical detoxification. Journal of Insect Physiology, 2015, 75, 54-62.	2.0	73
18	<i>Helicoverpa zea</i> gut-associated bacteria indirectly induce defenses in tomato by triggering a salivary elicitor(s). New Phytologist, 2017, 214, 1294-1306.	7.3	72

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19	Induction of DIMBOA accumulation and systemic defense responses as a mechanism of enhanced resistance of mycorrhizal corn (<i>Zea mays</i> L.) to sheath blight. <i>Mycorrhiza</i> , 2011, 21, 721-731.	2.8	71
20	Allelopathy - The Solution is Indirect. <i>Journal of Chemical Ecology</i> , 2014, 40, 515-516.	1.8	68
21	GmEXPB2, a Cell Wall β -Expansin Gene, Affects Soybean Nodulation through Modifying Root Architecture and Promoting Nodule Formation and Development. <i>Plant Physiology</i> , 2015, 169, pp.01029.2015.	4.8	67
22	Silicon Supplementation Alters the Composition of Herbivore Induced Plant Volatiles and Enhances Attraction of Parasitoids to Infested Rice Plants. <i>Frontiers in Plant Science</i> , 2017, 8, 1265.	3.6	67
23	Defoliation of interior Douglas-fir elicits carbon transfer and stress signalling to ponderosa pine neighbors through ectomycorrhizal networks. <i>Scientific Reports</i> , 2015, 5, 8495.	3.3	62
24	Identification and Characterization of CYP9A40 from the Tobacco Cutworm Moth (<i>Spodoptera litura</i>), a Cytochrome P450 Gene Induced by Plant Allelochemicals and Insecticides. <i>International Journal of Molecular Sciences</i> , 2015, 16, 22606-22620.	4.1	58
25	Identification of a novel cytochrome P450 CYP321B1 gene from tobacco cutworm (<i>Spodoptera</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 2017, 24, 235-247.	3.0	56
26	Allelochemical Induction of Cytochrome P450 Monooxygenases and Amelioration of Xenobiotic Toxicity in <i>Helicoverpa zea</i> . <i>Journal of Chemical Ecology</i> , 2007, 33, 449-461.	1.8	55
27	Aflatoxin B1 detoxification by CYP321A1 in <i>Helicoverpa zea</i> . <i>Archives of Insect Biochemistry and Physiology</i> , 2008, 69, 32-45.	1.5	53
28	Ecological Significance of Induction of Broad-Substrate Cytochrome P450s by Natural and Synthetic Inducers in <i>Helicoverpa zea</i> . <i>Journal of Chemical Ecology</i> , 2009, 35, 183-189.	1.8	52
29	Herbivore Oral Secreted Bacteria Trigger Distinct Defense Responses in Preferred and Non-Preferred Host Plants. <i>Journal of Chemical Ecology</i> , 2016, 42, 463-474.	1.8	44
30	Growth stimulation of ectomycorrhizal fungi by root exudates of Brassicaceae plants: role of degraded compounds of indole glucosinolates. <i>Journal of Chemical Ecology</i> , 2003, 29, 1337-1355.	1.8	40
31	Interactions between Nitrogen and Silicon in Rice and Their Effects on Resistance toward the Brown Planthopper <i>Nilaparvata lugens</i> . <i>Frontiers in Plant Science</i> , 2017, 8, 28.	3.6	40
32	Copper exposure enhances <i>Spodoptera litura</i> larval tolerance to β -cypermethrin. <i>Pesticide Biochemistry and Physiology</i> , 2019, 160, 127-135.	3.6	39
33	Deficiency in Silicon Transporter Lsi1 Compromises Inducibility of Anti-herbivore Defense in Rice Plants. <i>Frontiers in Plant Science</i> , 2019, 10, 652.	3.6	38
34	Expression Analysis of Two P450 Monooxygenase Genes of the Tobacco Cutworm Moth (<i>Spodoptera</i>) Tj ETQq0 0 0 rgBT /Overlock 10 T Chemical Ecology, 2015, 41, 111-119.	1.8	36
35	Identification of a cytochrome P450 CYP6AB60 gene associated with tolerance to multi-plant allelochemicals from a polyphagous caterpillar tobacco cutworm (<i>Spodoptera litura</i>). <i>Pesticide Biochemistry and Physiology</i> , 2019, 154, 60-66.	3.6	36
36	Toxicity of Aflatoxin B1 to <i>Helicoverpa zea</i> and Bioactivation by Cytochrome P450 Monooxygenases. <i>Journal of Chemical Ecology</i> , 2006, 32, 1459-1471.	1.8	35

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37	Selected Ectomycorrhizal Fungi of Black Spruce (<i>Picea mariana</i>) can Detoxify Phenolic Compounds of <i>Kalmia angustifolia</i> . <i>Journal of Chemical Ecology</i> , 2006, 32, 1473-1489.	1.8	33
38	Copper-induced H ₂ O ₂ accumulation confers larval tolerance to xanthotoxin by modulating CYP6B50 expression in <i>Spodoptera litura</i> . <i>Pesticide Biochemistry and Physiology</i> , 2019, 159, 118-126.	3.6	33
39	Silicon enhances photochemical efficiency and adjusts mineral nutrient absorption in Magnaporthe oryzae infected rice plants. <i>Acta Physiologiae Plantarum</i> , 2011, 33, 675-682.	2.1	32
40	Adipokinetic Hormone Receptor Mediates Trehalose Homeostasis to Promote Vitellogenin Uptake by Oocytes in <i>Nilaparvata lugens</i> . <i>Frontiers in Physiology</i> , 2018, 9, 1904.	2.8	32
41	The roles of jasmonate signalling in nitrogen uptake and allocation in rice (<i>Oryza sativa</i> L.). <i>Plant, Cell and Environment</i> , 2019, 42, 659-672.	5.7	32
42	Priming and filtering of antiherbivore defences among <i>Nicotiana attenuata</i> plants connected by mycorrhizal networks. <i>Plant, Cell and Environment</i> , 2019, 42, 2945-2961.	5.7	30
43	Simulated Acid Rain Accelerates Litter Decomposition and Enhances the Allelopathic Potential of the Invasive Plant <i>Wedelia trilobata</i> (Creeping Daisy). <i>Weed Science</i> , 2012, 60, 462-467.	1.5	27
44	Earthworm gut bacteria increase silicon bioavailability and acquisition by maize. <i>Soil Biology and Biochemistry</i> , 2018, 125, 215-221.	8.8	27
45	Plant allelochemicals affect tolerance of polyphagous lepidopteran pest <i>Helicoverpa armigera</i> (H&A) against insecticides. <i>Pesticide Biochemistry and Physiology</i> , 2019, 154, 32-38.	3.6	27
46	Sugarcane Ratooning Ability: Research Status, Shortcomings, and Prospects. <i>Biology</i> , 2021, 10, 1052.	2.8	26
47	Intraspecific variations in cadmium tolerance and phytoaccumulation in giant duckweed (<i>Spirodela</i>)	1.0	24
48	Enhanced Toxicity and Induction of Cytochrome P450s Suggest a Cost of Eavesdropping in a Multitrophic Interaction. <i>Journal of Chemical Ecology</i> , 2009, 35, 526-532.	1.8	23
49	Inhibition of hepatocyte nuclear factor 4 confers imidacloprid resistance in <i>Nilaparvata lugens</i> via the activation of cytochrome P450 and UDP-glycosyltransferase genes. <i>Chemosphere</i> , 2021, 263, 128269.	8.2	22
50	Phytochemical Flavone Confers Broad-Spectrum Tolerance to Insecticides in <i>Spodoptera litura</i> by Activating ROS/CncC-Mediated Xenobiotic Detoxification Pathways. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 7429-7445.	5.2	21
51	Activation of the ROS/CncC and 20-Hydroxyecdysone Signaling Pathways Is Associated with Xanthotoxin-Induced Tolerance to Î»-Cyhalothrin in <i>Spodoptera litura</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 13425-13435.	5.2	21
52	Molecular mechanisms of insect adaptation to plant defense: Lessons learned from a Bruchid beetle. <i>Insect Science</i> , 2008, 15, 477-481.	3.0	20
53	RNA-Seq Analyses of Midgut and Fat Body Tissues Reveal the Molecular Mechanism Underlying <i>Spodoptera litura</i> Resistance to Tomatine. <i>Frontiers in Physiology</i> , 2019, 10, 8.	2.8	20
54	Transcription factor OsbZIP49 controls tiller angle and plant architecture through the induction of indoleacetic acid amido synthetases in rice. <i>Plant Journal</i> , 2021, 108, 1346-1364.	5.7	20

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55	Aflatoxin B1: Toxicity, bioactivation and detoxification in the polyphagous caterpillar <i>Trichoplusia ni</i> . <i>Insect Science</i> , 2013, 20, 318-328.	3.0	19
56	Gut-Associated Bacteria of <i>Helicoverpa zea</i> Indirectly Trigger Plant Defenses in Maize. <i>Journal of Chemical Ecology</i> , 2018, 44, 690-699.	1.8	19
57	Seed priming with calcium chloride enhances wheat resistance against wheat aphid <i>Schizaphis graminum</i> . <i>Pest Management Science</i> , 2021, 77, 4709-4718.	3.4	19
58	Exposure of <i>Helicoverpa armigera</i> Larvae to Plant Volatile Organic Compounds Induces Cytochrome P450 Monooxygenases and Enhances Larval Tolerance to the Insecticide Methomyl. <i>Insects</i> , 2021, 12, 238.	2.2	18
59	Antagonistic Regulation, Yet Synergistic Defense: Effect of Bergapten and Protease Inhibitor on Development of Cowpea Bruchid <i>Callosobruchus maculatus</i> . <i>PLoS ONE</i> , 2012, 7, e41877.	2.5	18
60	A pivotal role of vacuolar H ⁺ -ATPase in regulation of lipid production in <i>Phaeodactylum tricornutum</i> . <i>Scientific Reports</i> , 2016, 6, 31319.	3.3	16
61	Ratoon rice generated from primed parent plants exhibit enhanced herbivore resistance. <i>Plant, Cell and Environment</i> , 2017, 40, 779-787.	5.7	16
62	Nitrogen Supply Alters Rice Defense Against the Striped Stem Borer <i>Chilo suppressalis</i> . <i>Frontiers in Plant Science</i> , 2021, 12, 691292.	3.6	16
63	DISEASE RESISTANCE IN PLANTS THROUGH MYCORRHIZAL FUNGI INDUCED ALLELOCHEMICALS. , 2006, , 181-192.		15
64	UV-irradiation enhances rice allelopathic potential in rhizosphere soil. <i>Plant Growth Regulation</i> , 2013, 71, 21-29.	3.4	15
65	A trail pheromone mediates the mutualism between ants and aphids. <i>Current Biology</i> , 2021, 31, 4738-4747.e4.	3.9	14
66	Bioactivation of aflatoxin B1 by a cytochrome P450, CYP6AE19 induced by plant signaling methyl jasmonate in <i>Helicoverpa armigera</i> (H&A4bner). <i>Pesticide Biochemistry and Physiology</i> , 2019, 157, 211-218.	3.6	13
67	Activation of the NR2E nuclear receptor HR83 leads to metabolic detoxification-mediated chlorpyrifos resistance in <i>Nilaparvata lugens</i> . <i>Pesticide Biochemistry and Physiology</i> , 2021, 173, 104800.	3.6	13
68	Modelling tritrophic interactions mediated by induced defence volatiles. <i>Ecological Modelling</i> , 2009, 220, 3241-3247.	2.5	12
69	Control of Panama disease of banana by intercropping with Chinese chive (<i>Allium tuberosum</i> Rottler): cultivar differences. <i>BMC Plant Biology</i> , 2020, 20, 432.	3.6	12
70	Silicon-mediated multiple interactions: Simultaneous induction of rice defense and inhibition of larval performance and insecticide tolerance of <i>Chilo suppressalis</i> by sodium silicate. <i>Ecology and Evolution</i> , 2020, 10, 4816-4827.	1.9	12
71	Activation of the nitric oxide cycle by citrulline and arginine restores susceptibility of resistant brown planthoppers to the insecticide imidacloprid. <i>Journal of Hazardous Materials</i> , 2020, 396, 122755.	12.4	12
72	Geographically isolated Colorado potato beetle mediating distinct defense responses in potato is associated with the alteration of gut microbiota. <i>Journal of Pest Science</i> , 2020, 93, 379-390.	3.7	11

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73	Effect of hepatocyte nuclear factor 4 on the fecundity of <i>Nilaparvata lugens</i> : Insights from RNA interference combined with transcriptomic analysis. <i>Genomics</i> , 2020, 112, 4585-4594.	2.9	11
74	High nitrogen in maize enriches gut microbiota conferring insecticide tolerance in lepidopteran pest <i>Spodoptera litura</i> . <i>IScience</i> , 2022, 25, 103726.	4.1	11
75	Allelopathy of <i>Aspergillus japonicus</i> on Crops. <i>Agronomy Journal</i> , 2001, 93, 60-64.	1.8	10
76	Allelopathy in Chinese Ancient and Modern Agriculture. , 2008, , 39-59.		10
77	Diterpenoids with herbicidal and antifungal activities from hulls of rice (<i>Oryza sativa</i>). <i>F̄-toterap̄-̄</i> , 2019, 136, 104183.	2.2	10
78	Olfactory perception of herbivore-induced plant volatiles elicits counter-defences in larvae of the tobacco cutworm. <i>Functional Ecology</i> , 2021, 35, 384-397.	3.6	10
79	Soil microorganisms alleviate the allelopathic effect of <i>Eucalyptus grandis</i> – <i>E. urophylla</i> leachates on <i>Brassica chinensis</i> . <i>Journal of Forestry Research</i> , 2017, 28, 1203-1207.	3.6	8
80	Enhancement of Jasmonate-Mediated Antiherbivore Defense Responses in Tomato by Acetic Acid, a Potent Inducer for Plant Protection. <i>Frontiers in Plant Science</i> , 2019, 10, 764.	3.6	8
81	Phosphoinositide 3-Kinase Promotes Oxidative Burst, Stomatal Closure and Plant Immunity in Bacterial Invasion. <i>Frontiers in Plant Science</i> , 2019, 10, 1740.	3.6	7
82	Regulation of NIE74A on vitellogenin may be mediated by angiotensin converting enzyme through a fecundity-related SNP in the brown planthopper, <i>Nilaparvata lugens</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2018, 225, 26-32.	1.8	7
83	Priming of rice defense against a sap-sucking insect pest brown planthopper by silicon. <i>Journal of Pest Science</i> , 2022, 95, 1371-1385.	3.7	7
84	Cadmium transfer between maize and soybean plants via common mycorrhizal networks. <i>Ecotoxicology and Environmental Safety</i> , 2022, 232, 113273.	6.0	7
85	Exposure to Herbicides Prime P450-Mediated Detoxification of <i>Helicoverpa armigera</i> against Insecticide and Fungal Toxin. <i>Insects</i> , 2019, 10, 28.	2.2	6
86	Parasitoid Causes Cascading Effects on Plant-Induced Defenses Mediated Through the Gut Bacteria of Host Caterpillars. <i>Frontiers in Microbiology</i> , 2021, 12, 708990.	3.5	6
87	Enhanced anti-herbivore defense of tomato plants against <i>Spodoptera litura</i> by their rhizosphere bacteria. <i>BMC Plant Biology</i> , 2022, 22, .	3.6	6
88	The KNRL nuclear receptor controls hydrolase-mediated vitellin breakdown during embryogenesis in the brown planthopper, <i>Nilaparvata lugens</i> . <i>Insect Science</i> , 2021, 28, 1633-1650.	3.0	4
89	Effect of Toxins Isolated from <i>Exserohilum monoceras</i> (Drechsler) Leonard and Suggs on <i>Echinochloa crus-galli</i> (L.) Beauv.. <i>Agricultural Sciences in China</i> , 2009, 8, 972-978.	0.6	3
90	Transcriptomic Profiling Reveals Shared Signalling Networks Between Flower Development and Herbivory-Induced Responses in Tomato. <i>Frontiers in Plant Science</i> , 2021, 12, 722810.	3.6	3

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91	Molecular, biochemical and bioassay based evidence of lower allelopathic potential in genetically modified rice. <i>Plant Growth Regulation</i> , 2014, 74, 73-82.	3.4	2
92	Colorado potato beetle exploits frass-associated bacteria to suppress defense responses in potato plants. <i>Pest Management Science</i> , 2022, , .	3.4	2
93	Autotoxicity in Agriculture and Forestry. , 2008, , 283-301.		1