

# 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  | 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        |
| 2  | 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         |
| 3  | Colorado potato beetle exploits frass-associated bacteria to suppress defense responses in potato plants. <i>Pest Management Science</i> , 2022, , .  | 3.4 | 2         |
| 4  | Cadmium transfer between maize and soybean plants via common mycorrhizal networks. <i>Ecotoxicology and Environmental Safety</i> , 2022, 232, 113273.   | 6.0 | 7         |
| 5  | 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         |
| 6  | 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         |
| 7  | 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        |
| 8  | Olfactory perception of herbivore-induced plant volatiles elicits counterdefences in larvae of the tobacco cutworm. <i>Functional Ecology</i> , 2021, 35, 384-397.  | 3.6 | 10        |
| 9  | The role of cytochrome P450-mediated detoxification in insect adaptation to xenobiotics. <i>Current Opinion in Insect Science</i> , 2021, 43, 103-107.  | 4.4 | 139       |
| 10 | 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        |
| 11 | 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        |
| 12 | 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        |
| 13 | 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        |
| 14 | 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        |
| 15 | 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         |
| 16 | A trail pheromone mediates the mutualism between ants and aphids. <i>Current Biology</i> , 2021, 31, 4738-4747.e4.  | 3.9 | 14        |
| 17 | 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        |
| 18 | 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         |

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|----|--|------|-----------|
| 19 | Sugarcane Ratooning Ability: Research Status, Shortcomings, and Prospects. <i>Biology</i> , 2021, 10, 1052.  | 2.8  | 26        |
| 20 | Activation of the ROS/CncC and 20-Hydroxyecdysone Signaling Pathways Is Associated with Xanthotoxin-Induced Tolerance to $\lambda$ -Cyhalothrin in <i>Spodoptera litura</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 13425-13435. | 5.2  | 21        |
| 21 | 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        |
| 22 | Activation of CncC pathway by ROS burst regulates cytochrome P450 CYP6AB12 responsible for $\lambda$ -cyhalothrin tolerance in <i>Spodoptera litura</i> . <i>Journal of Hazardous Materials</i> , 2020, 387, 121698.                                     | 12.4 | 80        |
| 23 | 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        |
| 24 | 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        |
| 25 | 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        |
| 26 | 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        |
| 27 | Intraspecific variations in cadmium tolerance and phytoaccumulation in giant duckweed ( <i>Spirodela</i> ) Tj ETQq1 1 0.784314 rgBT/Overl<br>12.4  | 12.4 | 24        |
| 28 | 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        |
| 29 | Copper exposure enhances <i>Spodoptera litura</i> larval tolerance to $\lambda$ -cypermethrin. <i>Pesticide Biochemistry and Physiology</i> , 2019, 160, 127-135.  | 3.6  | 39        |
| 30 | Copper-induced H <sub>2</sub> O <sub>2</sub> 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        |
| 31 | 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        |
| 32 | 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         |
| 33 | Diterpenoids with herbicidal and antifungal activities from hulls of rice ( <i>Oryza sativa</i> ). <i>Frontiers in Plant Science</i> , 2019, 10, 104183.   | 2.2  | 10        |
| 34 | 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        |
| 35 | Bioactivation of aflatoxin B1 by a cytochrome P450, CYP6AE19 induced by plant signaling methyl jasmonate in <i>Helicoverpa armigera</i> (H <sub>14</sub> bner). <i>Pesticide Biochemistry and Physiology</i> , 2019, 157, 211-218.                       | 3.6  | 13        |
| 36 | Plant allelochemicals affect tolerance of polyphagous lepidopteran pest <i>Helicoverpa armigera</i> (H <sub>14</sub> bner) against insecticides. <i>Pesticide Biochemistry and Physiology</i> , 2019, 154, 32-38.  | 3.6  | 27        |

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|----|---|------|-----------|
| 37 | 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        |
| 38 | Effects of boron, silicon and their interactions on cadmium accumulation and toxicity in rice plants. <i>Journal of Hazardous Materials</i> , 2019, 367, 447-455.   | 12.4 | 210       |
| 39 | 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         |
| 40 | 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        |
| 41 | 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         |
| 42 | 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        |
| 43 | Earthworm gut bacteria increase silicon bioavailability and acquisition by maize. <i>Soil Biology and Biochemistry</i> , 2018, 125, 215-221.  | 8.8  | 27        |
| 44 | 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        |
| 45 | 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 &amp; Integrative Physiology</i> , 2018, 225, 26-32. | 1.8  | 7         |
| 46 | Identification of a novel cytochrome P450 CYP321B1 gene from tobacco cutworm ( <i>Spodoptera</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5<br>2017, 24, 235-247.  | 3.0  | 56        |
| 47 | <i>Helicoverpa zea</i> gut-associated bacteria indirectly induce defenses in tomato by triggering a salivary elicitor(s). <i>New Phytologist</i> , 2017, 214, 1294-1306.  | 7.3  | 72        |
| 48 | 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         |
| 49 | Ratoon rice generated from primed parent plants exhibit enhanced herbivore resistance. <i>Plant, Cell and Environment</i> , 2017, 40, 779-787.  | 5.7  | 16        |
| 50 | 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        |
| 51 | 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        |
| 52 | Silicon: Potential to Promote Direct and Indirect Effects on Plant Defense Against Arthropod Pests in Agriculture. <i>Frontiers in Plant Science</i> , 2016, 7, 744.  | 3.6  | 204       |
| 53 | A pivotal role of vacuolar H <sup>+</sup> -ATPase in regulation of lipid production in <i>Phaeodactylum tricornutum</i> . <i>Scientific Reports</i> , 2016, 6, 31319.   | 3.3  | 16        |
| 54 | Improving crop nutrient efficiency through root architecture modifications. <i>Journal of Integrative Plant Biology</i> , 2016, 58, 193-202.  | 8.5  | 191       |

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|----|--|------|-----------|
| 55 | 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        |
| 56 | 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        |
| 57 | Enhanced tomato disease resistance primed by arbuscular mycorrhizal fungus. <i>Frontiers in Plant Science</i> , 2015, 6, 786.  | 3.6  | 211       |
| 58 | GmEXPB2, a Cell Wall $\beta$ -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        |
| 59 | Expression Analysis of Two P450 Monooxygenase Genes of the Tobacco Cutworm Moth ( <i>Spodoptera</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock<br><i>Chemical Ecology</i> , 2015, 41, 111-119.   | 1.8  | 36        |
| 60 | 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        |
| 61 | A novel cytochrome P450 CYP6AB14 gene in <i>Spodoptera litura</i> (Lepidoptera: Noctuidae) and its potential role in plant allelochemical detoxification. <i>Journal of Insect Physiology</i> , 2015, 75, 54-62.   | 2.0  | 73        |
| 62 | Insect Response to Plant Defensive Protease Inhibitors. <i>Annual Review of Entomology</i> , 2015, 60, 233-252.  | 11.8 | 263       |
| 63 | 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         |
| 64 | Allelopathy - The Solution is Indirect. <i>Journal of Chemical Ecology</i> , 2014, 40, 515-516.  | 1.8  | 68        |
| 65 | Hijacking common mycorrhizal networks for herbivore-induced defence signal transfer between tomato plants. <i>Scientific Reports</i> , 2014, 4, 3915.  | 3.3  | 88        |
| 66 | Priming of Anti-Herbivore Defense in Tomato by Arbuscular Mycorrhizal Fungus and Involvement of the Jasmonate Pathway. <i>Journal of Chemical Ecology</i> , 2013, 39, 1036-1044.   | 1.8  | 124       |
| 67 | UV-irradiation enhances rice allelopathic potential in rhizosphere soil. <i>Plant Growth Regulation</i> , 2013, 71, 21-29.   | 3.4  | 15        |
| 68 | 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        |
| 69 | Control of Panama Disease of Banana by Rotating and Intercropping with Chinese Chive ( <i>Allium</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock<br><i>Overlock</i>   | 1.8  | 120       |
| 70 | Priming of jasmonate-mediated antiherbivore defense responses in rice by silicon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3631-9.   | 7.1  | 261       |
| 71 | 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        |
| 72 | Silencing COI1 in Rice Increases Susceptibility to Chewing Insects and Impairs Inducible Defense. <i>PLoS ONE</i> , 2012, 7, e36214.   | 2.5  | 96        |

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|----|--|-----|-----------|
| 73 | 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        |
| 74 | 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        |
| 75 | Silicon enhances photochemical efficiency and adjusts mineral nutrient absorption in <i>Magnaporthe oryzae</i> infected rice plants. <i>Acta Physiologiae Plantarum</i> , 2011, 33, 675-682.             | 2.1 | 32        |
| 76 | Interplant Communication of Tomato Plants through Underground Common Mycorrhizal Networks. <i>PLoS ONE</i> , 2010, 5, e13324.  | 2.5 | 194       |
| 77 | Modelling tritrophic interactions mediated by induced defence volatiles. <i>Ecological Modelling</i> , 2009, 220, 3241-3247.   | 2.5 | 12        |
| 78 | 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        |
| 79 | 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        |
| 80 | 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         |
| 81 | 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        |
| 82 | 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        |
| 83 | Physiological and cytological mechanisms of silicon-induced resistance in rice against blast disease. <i>Physiologia Plantarum</i> , 2008, 134, 324-333.   | 5.2 | 237       |
| 84 | Allelopathy in Chinese Ancient and Modern Agriculture. , 2008, , 39-59.  |     | 10        |
| 85 | Autotoxicity in Agriculture and Forestry. , 2008, , 283-301.   |     | 1         |
| 86 | 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        |
| 87 | Rice Allelopathy Induced by Methyl Jasmonate and Methyl Salicylate. <i>Journal of Chemical Ecology</i> , 2007, 33, 1089-1103.  | 1.8 | 105       |
| 88 | 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        |
| 89 | 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        |
| 90 | DISEASE RESISTANCE IN PLANTS THROUGH MYCORRHIZAL FUNGI INDUCED ALLELOCHEMICALS. , 2006, , 181-192.   |     | 15        |

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|----|---|-----|-----------|
| 91 | 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        |
| 92 | Allelopathy of <i>Aspergillus japonicus</i> on Crops. <i>Agronomy Journal</i> , 2001, 93, 60-64.  | 1.8 | 10        |
| 93 | Physiological and Biochemical Mechanism of Allelopathy of Secalonic Acid F on Higher Plants. <i>Agronomy Journal</i> , 2001, 93, 72-79.   | 1.8 | 83        |