

Yong-Gen Lou

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95
papers

4,399
citations

38
h-index

64
g-index

104
ext. papers

5,496
ext. citations

6.3
avg, IF

5.4
L-index

#	Paper	IF	Citations
95	Plant Terpenoids: Biosynthesis and Ecological Functions. <i>Journal of Integrative Plant Biology</i> , 2007 , 49, 179-186	8.3	265
94	Functional analysis of rice NPR1-like genes reveals that OsNPR1/NH1 is the rice orthologue conferring disease resistance with enhanced herbivore susceptibility. <i>Plant Biotechnology Journal</i> , 2007 , 5, 313-24	11.6	255
93	Overexpression of rice WRKY89 enhances ultraviolet B tolerance and disease resistance in rice plants. <i>Plant Molecular Biology</i> , 2007 , 65, 799-815	4.6	203
92	Transcriptome analysis of the brown planthopper Nilaparvata lugens. <i>PLoS ONE</i> , 2010 , 5, e14233	3.7	197
91	Silencing OsHI-LOX makes rice more susceptible to chewing herbivores, but enhances resistance to a phloem feeder. <i>Plant Journal</i> , 2009 , 60, 638-48	6.9	186
90	The rice (E)-beta-caryophyllene synthase (OsTPS3) accounts for the major inducible volatile sesquiterpenes. <i>Phytochemistry</i> , 2007 , 68, 1632-41	4	167
89	Exogenous application of jasmonic acid induces volatile emissions in rice and enhances parasitism of Nilaparvata lugens eggs by the parasitoid Anagrus nilaparvatae. <i>Journal of Chemical Ecology</i> , 2005 , 31, 1985-2002	2.7	129
88	Specific herbivore-induced volatiles defend plants and determine insect community composition in the field. <i>Ecology Letters</i> , 2012 , 15, 1130-9	10	115
87	Silencing of a germin-like gene in Nicotiana attenuata improves performance of native herbivores. <i>Plant Physiology</i> , 2006 , 140, 1126-36	6.6	105
86	Attraction of the parasitoid Anagrus nilaparvatae to rice volatiles induced by the rice brown planthopper Nilaparvata lugens. <i>Journal of Chemical Ecology</i> , 2005 , 31, 2357-72	2.7	105
85	An EAR-motif-containing ERF transcription factor affects herbivore-induced signaling, defense and resistance in rice. <i>Plant Journal</i> , 2011 , 68, 583-96	6.9	104
84	The rice hydroperoxide lyase OsHPL3 functions in defense responses by modulating the oxylipin pathway. <i>Plant Journal</i> , 2012 , 71, 763-75	6.9	100
83	Nitrogen supply influences herbivore-induced direct and indirect defenses and transcriptional responses in Nicotiana attenuata. <i>Plant Physiology</i> , 2004 , 135, 496-506	6.6	100
82	Biological control of rice insect pests in China. <i>Biological Control</i> , 2013 , 67, 8-20	3.8	87
81	Induced jasmonate signaling leads to contrasting effects on root damage and herbivore performance. <i>Plant Physiology</i> , 2015 , 167, 1100-16	6.6	83
80	Manduca sexta recognition and resistance among allopolyploid Nicotiana host plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100 Suppl 2, 14581-6	11.5	83
79	Altered disease development in the eui mutants and Eui overexpressors indicates that gibberellins negatively regulate rice basal disease resistance. <i>Molecular Plant</i> , 2008 , 1, 528-37	14.4	82

78	Differences in induced volatile emissions among rice varieties result in differential attraction and parasitism of <i>Nilaparvata lugens</i> eggs by the parasitoid <i>Anagrus nilaparvatae</i> in the field. <i>Journal of Chemical Ecology</i> , 2006 , 32, 2375-87	2.7	81
77	<i>Echinochloa crus-galli</i> genome analysis provides insight into its adaptation and invasiveness as a weed. <i>Nature Communications</i> , 2017 , 8, 1031	17.4	80
76	Prioritizing plant defence over growth through WRKY regulation facilitates infestation by non-target herbivores. <i>ELife</i> , 2015 , 4, e04805	8.9	74
75	Resistance of rice to insect pests mediated by suppression of serotonin biosynthesis. <i>Nature Plants</i> , 2018 , 4, 338-344	11.5	71
74	Contrasting effects of ethylene biosynthesis on induced plant resistance against a chewing and a piercing-sucking herbivore in rice. <i>Molecular Plant</i> , 2014 , 7, 1670-1682	14.4	67
73	The chloroplast-localized phospholipases D 4 and B regulate herbivore-induced direct and indirect defenses in rice. <i>Plant Physiology</i> , 2011 , 157, 1987-99	6.6	67
72	Comparative transcriptome analysis of salivary glands of two populations of rice brown planthopper, <i>Nilaparvata lugens</i> , that differ in virulence. <i>PLoS ONE</i> , 2013 , 8, e79612	3.7	62
71	The Rice Transcription Factor WRKY53 Suppresses Herbivore-Induced Defenses by Acting as a Negative Feedback Modulator of Mitogen-Activated Protein Kinase Activity. <i>Plant Physiology</i> , 2015 , 169, 2907-21	6.6	60
70	An E3 Ubiquitin Ligase-BAG Protein Module Controls Plant Innate Immunity and Broad-Spectrum Disease Resistance. <i>Cell Host and Microbe</i> , 2016 , 20, 758-769	23.4	59
69	Phytochrome chromophore deficiency leads to overproduction of jasmonic acid and elevated expression of jasmonate-responsive genes in <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2007 , 48, 1061-71	4.9	57
68	A Salivary Endo- β 1,4-Glucanase Acts as an Effector That Enables the Brown Planthopper to Feed on Rice. <i>Plant Physiology</i> , 2017 , 173, 1920-1932	6.6	54
67	The prospect of applying chemical elicitors and plant strengtheners to enhance the biological control of crop pests. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369, 20120283	5.8	51
66	OsMPK3 positively regulates the JA signaling pathway and plant resistance to a chewing herbivore in rice. <i>Plant Cell Reports</i> , 2013 , 32, 1075-84	5.1	48
65	RNAi knockdown of <i>Oryza sativa</i> root meander curling gene led to altered root development and coiling which were mediated by jasmonic acid signalling in rice. <i>Plant, Cell and Environment</i> , 2007 , 30, 690-9	8.4	46
64	The broad-leaf herbicide 2,4-dichlorophenoxyacetic acid turns rice into a living trap for a major insect pest and a parasitic wasp. <i>New Phytologist</i> , 2012 , 194, 498-510	9.8	45
63	Role of ethylene signaling in the production of rice volatiles induced by the rice brown planthopper <i>Nilaparvata lugens</i> . <i>Science Bulletin</i> , 2006 , 51, 2457-2465		45
62	Differential attraction of parasitoids in relation to specificity of kairomones from herbivores and their by-products. <i>Insect Science</i> , 2008 , 15, 381-397	3.6	44
61	Molecular Dissection of Early Defense Signaling Underlying Volatile-Mediated Defense Regulation and Herbivore Resistance in Rice. <i>Plant Cell</i> , 2019 , 31, 687-698	11.6	43

60	OsLRR-RLK1, an early responsive leucine-rich repeat receptor-like kinase, initiates rice defense responses against a chewing herbivore. <i>New Phytologist</i> , 2018 , 219, 1097-1111	9.8	39
59	Reprint of: Biological control of rice insect pests in China. <i>Biological Control</i> , 2014 , 68, 103-116	3.8	39
58	OsNPR1 negatively regulates herbivore-induced JA and ethylene signaling and plant resistance to a chewing herbivore in rice. <i>Physiologia Plantarum</i> , 2013 , 147, 340-51	4.6	39
57	Effects of venom/calyx fluid from the endoparasitic wasp <i>Cotesia plutellae</i> on the hemocytes of its host <i>Plutella xylostella</i> in vitro. <i>Journal of Insect Physiology</i> , 2007 , 53, 22-9	2.4	38
56	Role of rice volatiles in the foraging behaviour of the predator <i>Cyrtorhinus lividipennis</i> for the rice brown planthopper <i>Nilaparvata lugens</i> . <i>BioControl</i> , 2003 , 48, 73-86	2.3	38
55	PRRs and NB-LRRs: From Signal Perception to Activation of Plant Innate Immunity. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	37
54	Genome-wide transcriptional changes and defence-related chemical profiling of rice in response to infestation by the rice striped stem borer <i>Chilo suppressalis</i> . <i>Physiologia Plantarum</i> , 2011 , 143, 21-40	4.6	37
53	A salivary EF-hand calcium-binding protein of the brown planthopper <i>Nilaparvata lugens</i> functions as an effector for defense responses in rice. <i>Scientific Reports</i> , 2017 , 7, 40498	4.9	36
52	The 9-lipoxygenase <i>Osr9-LOX1</i> interacts with the 13-lipoxygenase-mediated pathway to regulate resistance to chewing and piercing-sucking herbivores in rice. <i>Physiologia Plantarum</i> , 2014 , 152, 59-69	4.6	36
51	The Transcription Factor <i>OsWRKY45</i> Negatively Modulates the Resistance of Rice to the Brown Planthopper <i>Nilaparvata lugens</i> . <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	34
50	Jasmonic acid carboxyl methyltransferase regulates development and herbivory-induced defense response in rice. <i>Journal of Integrative Plant Biology</i> , 2016 , 58, 564-76	8.3	34
49	Plant-insect-microbe interaction: A love triangle between enemies in ecosystem. <i>Science of the Total Environment</i> , 2020 , 699, 134181	10.2	33
48	<i>OsWRKY53</i> , a versatile switch in regulating herbivore-induced defense responses in rice. <i>Plant Signaling and Behavior</i> , 2016 , 11, e1169357	2.5	32
47	Lamin-like Proteins Negatively Regulate Plant Immunity through NAC WITH TRANSMEMBRANE MOTIF1-LIKE9 and NONEXPRESSOR OF PR GENES1 in <i>Arabidopsis thaliana</i> . <i>Molecular Plant</i> , 2017 , 10, 1334-1348	14.4	29
46	β-Glucosidase treatment and infestation by the rice brown planthopper <i>Nilaparvata lugens</i> elicit similar signaling pathways in rice plants. <i>Science Bulletin</i> , 2008 , 53, 53-57		27
45	The wound response mutant suppressor of prosystemin-mediated responses6 (<i>spr6</i>) is a weak allele of the tomato homolog of CORONATINE-INSENSITIVE1 (<i>COI1</i>). <i>Plant and Cell Physiology</i> , 2006 , 47, 653-63	4.9	24
44	Zinc finger protein transcription factors: Integrated line of action for plant antimicrobial activity. <i>Microbial Pathogenesis</i> , 2019 , 132, 141-149	3.8	22
43	Silencing <i>OsSLR1</i> enhances the resistance of rice to the brown planthopper <i>Nilaparvata lugens</i> . <i>Plant, Cell and Environment</i> , 2017 , 40, 2147-2159	8.4	22

42	Induction of defense in cereals by 4-fluorophenoxyacetic acid suppresses insect pest populations and increases crop yields in the field. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 12017-12028	11.5	19
41	a Stress-Responsive Protein Kinase, Positively Regulates Rice Resistance to via Phytohormone Dynamics. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	19
40	Transcriptome analysis of fat bodies from two brown planthopper (<i>Nilaparvata lugens</i>) populations with different virulence levels in rice. <i>PLoS ONE</i> , 2014 , 9, e88528	3.7	19
39	Salicylic acid and ethylene signaling pathways are involved in production of rice trypsin proteinase inhibitors induced by the leaf folder <i>Cnaphalocrocis medinalis</i> (Guené). <i>Science Bulletin</i> , 2011 , 56, 2351-2358		18
38	Overexpression of a Xylanase Inhibitor Gene, OsHI-XIP, Enhances Resistance in Rice to Herbivores. <i>Plant Molecular Biology Reporter</i> , 2014 , 32, 465-475	1.7	17
37	Overexpression of Enhances the Resistance of Rice to the Brown Planthopper. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	17
36	Expressing Impairs Plant Growth but Enhances the Resistance of Rice to the Striped Stem Borer. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	15
35	A Group D MAPK Protects Plants from Autotoxicity by Suppressing Herbivore-Induced Defense Signaling. <i>Plant Physiology</i> , 2019 , 179, 1386-1401	6.6	15
34	Molecular dissection of rice phytohormone signaling involved in resistance to a piercing-sucking herbivore. <i>New Phytologist</i> , 2021 , 230, 1639-1652	9.8	15
33	Finding new elicitors that induce resistance in rice to the white-backed planthopper <i>Sogatella furcifera</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 5601-3	2.9	14
32	Rice copine genes OsBON1 and OsBON3 function as suppressors of broad-spectrum disease resistance. <i>Plant Biotechnology Journal</i> , 2018 , 16, 1476-1487	11.6	14
31	Intra- and Inter-specific Effects of the Brown Planthopper and White Backed Planthopper on Their Population Performance. <i>Journal of Asia-Pacific Entomology</i> , 2001 , 4, 85-92	1.4	14
30	(E)-E Caryophyllene functions as a host location signal for the rice white-backed planthopper <i>Sogatella furcifera</i> . <i>Physiological and Molecular Plant Pathology</i> , 2015 , 91, 106-112	2.6	13
29	Non-Host Plant Volatiles Disrupt Sex Pheromone Communication in a Specialist Herbivore. <i>Scientific Reports</i> , 2016 , 6, 32666	4.9	13
28	Host-recognition kairomone from <i>Sogatella furcifera</i> for the parasitoid <i>Anagrus nilaparvatae</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2001 , 101, 59-67	2.1	13
27	Feeding-induced interactions between two rice planthoppers, <i>Nilaparvata lugens</i> and <i>Sogatella furcifera</i> (Hemiptera: Delphacidae): effects on feeding and honeydew excretion. <i>Environmental Entomology</i> , 2013 , 42, 1281-91	2.1	12
26	(Z)-3-Hexenal, One of the Green Leaf Volatiles, Increases Susceptibility of Rice to the White-Backed Planthopper <i>Sogatella furcifera</i> . <i>Plant Molecular Biology Reporter</i> , 2015 , 33, 377-387	1.7	10
25	Feeding-induced interactions between <i>Nilaparvata lugens</i> and <i>Laodelphax striatellus</i> (Hemiptera: Delphacidae): effects on feeding behavior and honeydew excretion. <i>Environmental Entomology</i> , 2013 , 42, 987-97	2.1	10

24	Rice stripe virus coat protein induces the accumulation of jasmonic acid, activating plant defence against the virus while also attracting its vector to feed. <i>Molecular Plant Pathology</i> , 2020 , 21, 1647-1653	5.7	10
23	A conserved pattern in plant-mediated interactions between herbivores. <i>Ecology and Evolution</i> , 2016 , 6, 1032-40	2.8	9
22	Identification and characterization of microRNAs in small brown planthopper (Laodephax striatellus) by next-generation sequencing. <i>PLoS ONE</i> , 2014 , 9, e103041	3.7	8
21	Long non-coding RNAs associate with jasmonate-mediated plant defence against herbivores. <i>Plant, Cell and Environment</i> , 2021 , 44, 982-994	8.4	8
20	Diversity-Oriented Synthesis of Natural-Product-like Libraries Containing a 3-Methylbenzofuran Moiety for the Discovery of New Chemical Elicitors. <i>ChemistryOpen</i> , 2017 , 6, 102-111	2.3	7
19	Preference and performance of <i>Anagrus nilaparvatae</i> (Hymenoptera: Mymaridae): effect of infestation duration and density by <i>Nilaparvata lugens</i> (Homoptera: Delphacidae). <i>Environmental Entomology</i> , 2008 , 37, 748-54	2.1	7
18	Non-host plant extracts reduce oviposition of <i>Plutella xylostella</i> (Lepidoptera: Plutellidae) and enhance parasitism by its parasitoid <i>Cotesia plutellae</i> (Hymenoptera: Braconidae). <i>Bulletin of Entomological Research</i> , 2006 , 96, 373-8	1.7	7
17	The Commonly Used Bactericide Bismethiazol Promotes Rice Defenses against Herbivores. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	6
16	Both Allene Oxide Synthases Genes Are Involved in the Biosynthesis of Herbivore-Induced Jasmonic Acid and Herbivore Resistance in Rice. <i>Plants</i> , 2021 , 10,	4.5	6
15	The Desaturase Gene Family is Crucially Required for Fatty Acid Metabolism and Survival of the Brown Planthopper,. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	5
14	Suppression of a leucine-rich repeat receptor-like kinase enhances host plant resistance to a specialist herbivore. <i>Plant, Cell and Environment</i> , 2020 , 43, 2571-2585	8.4	5
13	Rice phenolamindes reduce the survival of female adults of the white-backed planthopper <i>Sogatella furcifera</i> . <i>Scientific Reports</i> , 2020 , 10, 5778	4.9	5
12	Silencing has different effects on rice pests in the field. <i>Plant Signaling and Behavior</i> , 2019 , 14, e1640562	2.5	5
11	Furan carbonylhydrazones-derived elicitors that induce the resistance of rice to the brown planthopper <i>Nilaparvata lugens</i> . <i>Phytochemistry Letters</i> , 2018 , 26, 184-189	1.9	4
10	Cooperative herbivory between two important pests of rice. <i>Nature Communications</i> , 2021 , 12, 6772	17.4	4
9	Herbivore-Induced Defenses in Rice and Their Potential Application in Rice Planthopper Management 2015 , 91-115		4
8	Exogenous Gibberellin GA3 Enhances Defense Responses in Rice to the Brown Planthopper <i>Nilaparvata lugens</i> (Stål) 2020 , 64, 379		3
7	Evolutionary changes in an invasive plant support the defensive role of plant volatiles. <i>Current Biology</i> , 2021 , 31, 3450-3456.e5	6.3	3

6	Host plants alter their volatiles to help a solitary egg parasitoid distinguish habitats with parasitized hosts from those without. <i>Plant, Cell and Environment</i> , 2020 , 43, 1740-1750	8.4	2
5	The jasmonic acid-amino acid conjugates JA-Val and JA-Leu are involved in rice resistance to herbivores. <i>Plant, Cell and Environment</i> , 2021 ,	8.4	2
4	Silencing a Simple Extracellular Leucine-Rich Repeat Gene Enhances the Resistance of Rice to Brown Planthopper. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
3	Role of jasmonate signaling in rice resistance to the leaf folder <i>Cnaphalocrocis medinalis</i> . <i>Plant Molecular Biology</i> , 2021 , 1	4.6	1
2	Overexpression of a Cytosolic 6-Phosphogluconate Dehydrogenase Gene Enhances the Resistance of Rice to. <i>Plants</i> , 2020 , 9,	4.5	1
1	Low-level cadmium exposure influences rice resistance to herbivores by priming jasmonate signaling. <i>Environmental and Experimental Botany</i> , 2022 , 194, 104741	5.9	