Yong-Gen Lou

List of Publications by Year in Descending Order

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	Low-level cadmium exposure influences rice resistance to herbivores by priming jasmonate signaling. *Environmental and Experimental Botany*, **2022**, 194, 104741	5.9	
94	Silencing a Simple Extracellular Leucine-Rich Repeat Gene Enhances the Resistance of Rice to Brown Planthopper. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
93	Cooperative herbivory between two important pests of rice. *Nature Communications*, **2021**, 12, 6772	17.4	4
92	The jasmonic acid-amino acid conjugates JA-Val and JA-Leu are involved in rice resistance to herbivores. *Plant, Cell and Environment*, **2021**,	8.4	2
91	Role of jasmonate signaling in rice resistance to the leaf folder Cnaphalocrocis medinalis. *Plant Molecular Biology*, **2021**, 1	4.6	1
90	Long non-coding RNAs associate with jasmonate-mediated plant defence against herbivores. *Plant, Cell and Environment*, **2021**, 44, 982-994	8.4	8
89	Molecular dissection of rice phytohormone signaling involved in resistance to a piercing-sucking herbivore. *New Phytologist*, **2021**, 230, 1639-1652	9.8	15
88	Both Allene Oxide Synthases Genes Are Involved in the Biosynthesis of Herbivore-Induced Jasmonic Acid and Herbivore Resistance in Rice. *Plants*, **2021**, 10,	4.5	6
87	Evolutionary changes in an invasive plant support the defensive role of plant volatiles. *Current Biology*, **2021**, 31, 3450-3456.e5	6.3	3
86	Induction of defense in cereals by 4-fluorophenoxyacetic acid suppresses insect pest populations and increases crop yields in the field. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 12017-12028	11.5	19
85	Host plants alter their volatiles to help a solitary egg parasitoid distinguish habitats with parasitized hosts from those without. *Plant, Cell and Environment*, **2020**, 43, 1740-1750	8.4	2
84	Suppression of a leucine-rich repeat receptor-like kinase enhances host plant resistance to a specialist herbivore. *Plant, Cell and Environment*, **2020**, 43, 2571-2585	8.4	5
83	Rice phenolamindes reduce the survival of female adults of the white-backed planthopper Sogatella furcifera. *Scientific Reports*, **2020**, 10, 5778	4.9	5
82	Overexpression of a Cytosolic 6-Phosphogluconate Dehydrogenase Gene Enhances the Resistance of Rice to. *Plants*, **2020**, 9,	4.5	1
81	Exogenous Gibberellin GA3 Enhances Defense Responses in Rice to the Brown Planthopper Nilaparvata lugens (Stl) **2020**, 64, 379		3
80	Rice stripe virus coat protein induces the accumulation of jasmonic acid, activating plant defence against the virus while also attracting its vector to feed. *Molecular Plant Pathology*, **2020**, 21, 1647-1653	5.7	10
79	Plant-insect-microbe interaction: A love triangle between enemies in ecosystem. *Science of the Total Environment*, **2020**, 699, 134181	10.2	33

78	PRRs and NB-LRRs: From Signal Perception to Activation of Plant Innate Immunity. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	37
77	Zinc finger protein transcription factors: Integrated line of action for plant antimicrobial activity. *Microbial Pathogenesis*, **2019**, 132, 141-149	3.8	22
76	The Desaturase Gene Family is Crucially Required for Fatty Acid Metabolism and Survival of the Brown Planthopper,. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	5
75	Silencing has different effects on rice pests in the field. *Plant Signaling and Behavior*, **2019**, 14, e1640562	2.5	5
74	a Stress-Responsive Protein Kinase, Positively Regulates Rice Resistance to via Phytohormone Dynamics. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	19
73	Molecular Dissection of Early Defense Signaling Underlying Volatile-Mediated Defense Regulation and Herbivore Resistance in Rice. *Plant Cell*, **2019**, 31, 687-698	11.6	43
72	A Group D MAPK Protects Plants from Autotoxicity by Suppressing Herbivore-Induced Defense Signaling. *Plant Physiology*, **2019**, 179, 1386-1401	6.6	15
71	Rice copine genes OsBON1 and OsBON3 function as suppressors of broad-spectrum disease resistance. *Plant Biotechnology Journal*, **2018**, 16, 1476-1487	11.6	14
70	Expressing Impairs Plant Growth but Enhances the Resistance of Rice to the Striped Stem Borer. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	15
69	The Commonly Used Bactericide Bismerthiazol Promotes Rice Defenses against Herbivores. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	6
68	Resistance of rice to insect pests mediated by suppression of serotonin biosynthesis. *Nature Plants*, **2018**, 4, 338-344	11.5	71
67	OsLRR-RLK1, an early responsive leucine-rich repeat receptor-like kinase, initiates rice defense responses against a chewing herbivore. *New Phytologist*, **2018**, 219, 1097-1111	9.8	39
66	Furan carbonylhydrazones-derived elicitors that induce the resistance of rice to the brown planthopper Nilaparvata lugens. *Phytochemistry Letters*, **2018**, 26, 184-189	1.9	4
65	Overexpression of Enhances the Resistance of Rice to the Brown Planthopper. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	17
64	A Salivary Endo-β1,4-Glucanase Acts as an Effector That Enables the Brown Planthopper to Feed on Rice. *Plant Physiology*, **2017**, 173, 1920-1932	6.6	54
63	A salivary EF-hand calcium-binding protein of the brown planthopper Nilaparvata lugens functions as an effector for defense responses in rice. *Scientific Reports*, **2017**, 7, 40498	4.9	36
62	Diversity-Oriented Synthesis of Natural-Product-like Libraries Containing a 3-Methylbenzofuran Moiety for the Discovery of New Chemical Elicitors. *ChemistryOpen*, **2017**, 6, 102-111	2.3	7
61	Lamin-like Proteins Negatively Regulate Plant Immunity through NAC WITH TRANSMEMBRANE MOTIF1-LIKE9 and NONEXPRESSOR OF PR GENES1 in Arabidopsis thaliana. *Molecular Plant*, **2017**, 10, 1334-1348	14.4	29

60	Echinochloa crus-galli genome analysis provides insight into its adaptation and invasiveness as a weed. *Nature Communications*, **2017**, 8, 1031	17.4	80
59	Silencing OsSLR1 enhances the resistance of rice to the brown planthopper Nilaparvata lugens. *Plant, Cell and Environment*, **2017**, 40, 2147-2159	8.4	22
58	Non-Host Plant Volatiles Disrupt Sex Pheromone Communication in a Specialist Herbivore. *Scientific Reports*, **2016**, 6, 32666	4.9	13
57	The Transcription Factor OsWRKY45 Negatively Modulates the Resistance of Rice to the Brown Planthopper Nilaparvata lugens. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	34
56	Jasmonic acid carboxyl methyltransferase regulates development and herbivory-induced defense response in rice. *Journal of Integrative Plant Biology*, **2016**, 58, 564-76	8.3	34
55	An E3 Ubiquitin Ligase-BAG Protein Module Controls Plant Innate Immunity and Broad-Spectrum Disease Resistance. *Cell Host and Microbe*, **2016**, 20, 758-769	23.4	59
54	OsWRKY53, a versatile switch in regulating herbivore-induced defense responses in rice. *Plant Signaling and Behavior*, **2016**, 11, e1169357	2.5	32
53	A conserved pattern in plant-mediated interactions between herbivores. *Ecology and Evolution*, **2016**, 6, 1032-40	2.8	9
52	(Z)-3-Hexenal, One of the Green Leaf Volatiles, Increases Susceptibility of Rice to the White-Backed Planthopper Sogatella furcifera. *Plant Molecular Biology Reporter*, **2015**, 33, 377-387	1.7	10
51	(E)-caryophyllene functions as a host location signal for the rice white-backed planthopper Sogatella furcifera. *Physiological and Molecular Plant Pathology*, **2015**, 91, 106-112	2.6	13
50	The Rice Transcription Factor WRKY53 Suppresses Herbivore-Induced Defenses by Acting as a Negative Feedback Modulator of Mitogen-Activated Protein Kinase Activity. *Plant Physiology*, **2015**, 169, 2907-21	6.6	60
49	Finding new elicitors that induce resistance in rice to the white-backed planthopper Sogatella furcifera. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 5601-3	2.9	14
48	Prioritizing plant defence over growth through WRKY regulation facilitates infestation by non-target herbivores. *ELife*, **2015**, 4, e04805	8.9	74
47	Induced jasmonate signaling leads to contrasting effects on root damage and herbivore performance. *Plant Physiology*, **2015**, 167, 1100-16	6.6	83
46	Herbivore-Induced Defenses in Rice and Their Potential Application in Rice Planthopper Management **2015**, 91-115		4
45	The prospect of applying chemical elicitors and plant strengtheners to enhance the biological control of crop pests. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2014**, 369, 20120283	5.8	51
44	Reprint of: Biological control of rice insect pests in China. *Biological Control*, **2014**, 68, 103-116	3.8	39
43	Overexpression of a Xylanase Inhibitor Gene, OsHI-XIP, Enhances Resistance in Rice to Herbivores. *Plant Molecular Biology Reporter*, **2014**, 32, 465-475	1.7	17

42	Contrasting effects of ethylene biosynthesis on induced plant resistance against a chewing and a piercing-sucking herbivore in rice. *Molecular Plant*, **2014**, 7, 1670-1682	14.4	67
41	The 9-lipoxygenase Osr9-LOX1 interacts with the 13-lipoxygenase-mediated pathway to regulate resistance to chewing and piercing-sucking herbivores in rice. *Physiologia Plantarum*, **2014**, 152, 59-69	4.6	36
40	Identification and characterization of microRNAs in small brown planthopper (Laodephax striatellus) by next-generation sequencing. *PLoS ONE*, **2014**, 9, e103041	3.7	8
39	Transcriptome analysis of fat bodies from two brown planthopper (Nilaparvata lugens) populations with different virulence levels in rice. *PLoS ONE*, **2014**, 9, e88528	3.7	19
38	OsNPR1 negatively regulates herbivore-induced JA and ethylene signaling and plant resistance to a chewing herbivore in rice. *Physiologia Plantarum*, **2013**, 147, 340-51	4.6	39
37	OsMPK3 positively regulates the JA signaling pathway and plant resistance to a chewing herbivore in rice. *Plant Cell Reports*, **2013**, 32, 1075-84	5.1	48
36	Biological control of rice insect pests in China. *Biological Control*, **2013**, 67, 8-20	3.8	87
35	Feeding-induced interactions between Nilaparvata lugens and Laodelphax striatellus (Hemiptera: Delphacidae): effects on feeding behavior and honeydew excretion. *Environmental Entomology*, **2013**, 42, 987-97	2.1	10
34	Feeding-induced interactions between two rice planthoppers, Nilaparvata lugens and Sogatella furcifera (Hemiptera: Delphacidae): effects on feeding and honeydew excretion. *Environmental Entomology*, **2013**, 42, 1281-91	2.1	12
33	Comparative transcriptome analysis of salivary glands of two populations of rice brown planthopper, Nilaparvata lugens, that differ in virulence. *PLoS ONE*, **2013**, 8, e79612	3.7	62
32	The rice hydroperoxide lyase OsHPL3 functions in defense responses by modulating the oxylipin pathway. *Plant Journal*, **2012**, 71, 763-75	6.9	100
31	Specific herbivore-induced volatiles defend plants and determine insect community composition in the field. *Ecology Letters*, **2012**, 15, 1130-9	10	115
30	The broad-leaf herbicide 2,4-dichlorophenoxyacetic acid turns rice into a living trap for a major insect pest and a parasitic wasp. *New Phytologist*, **2012**, 194, 498-510	9.8	45
29	An EAR-motif-containing ERF transcription factor affects herbivore-induced signaling, defense and resistance in rice. *Plant Journal*, **2011**, 68, 583-96	6.9	104
28	Genome-wide transcriptional changes and defence-related chemical profiling of rice in response to infestation by the rice striped stem borer Chilo suppressalis. *Physiologia Plantarum*, **2011**, 143, 21-40	4.6	37
27	The chloroplast-localized phospholipases D α4 and δ5 regulate herbivore-induced direct and indirect defenses in rice. *Plant Physiology*, **2011**, 157, 1987-99	6.6	67
26	Salicylic acid and ethylene signaling pathways are involved in production of rice trypsin proteinase inhibitors induced by the leaf folder Cnaphalocrocis medinalis (Guenée). *Science Bulletin*, **2011**, 56, 2351-2358		18
25	Transcriptome analysis of the brown planthopper Nilaparvata lugens. *PLoS ONE*, **2010**, 5, e14233	3.7	197

24	Silencing OsHI-LOX makes rice more susceptible to chewing herbivores, but enhances resistance to a phloem feeder. *Plant Journal*, **2009**, 60, 638-48	6.9	186
23	Altered disease development in the eui mutants and Eui overexpressors indicates that gibberellins negatively regulate rice basal disease resistance. *Molecular Plant*, **2008**, 1, 528-37	14.4	82
22	Preference and performance of Anagrus nilaparvatae (Hymenoptera: Mymaridae): effect of infestation duration and density by Nilaparvata lugens (Homoptera: Delphacidae). *Environmental Entomology*, **2008**, 37, 748-54	2.1	7
21	Glucosidase treatment and infestation by the rice brown planthopper Nilaparvata lugens elicit similar signaling pathways in rice plants. *Science Bulletin*, **2008**, 53, 53-57		27
20	Differential attraction of parasitoids in relation to specificity of kairomones from herbivores and their by-products. *Insect Science*, **2008**, 15, 381-397	3.6	44
19	Functional analysis of rice NPR1-like genes reveals that OsNPR1/NH1 is the rice orthologue conferring disease resistance with enhanced herbivore susceptibility. *Plant Biotechnology Journal*, **2007**, 5, 313-24	11.6	255
18	RNAi knockdown of Oryza sativa root meander curling gene led to altered root development and coiling which were mediated by jasmonic acid signalling in rice. *Plant, Cell and Environment*, **2007**, 30, 690-9	8.4	46
17	Plant Terpenoids: Biosynthesis and Ecological Functions. *Journal of Integrative Plant Biology*, **2007**, 49, 179-186	8.3	265
16	Effects of venom/calyx fluid from the endoparasitic wasp Cotesia plutellae on the hemocytes of its host Plutella xylostella in vitro. *Journal of Insect Physiology*, **2007**, 53, 22-9	2.4	38
15	Overexpression of rice WRKY89 enhances ultraviolet B tolerance and disease resistance in rice plants. *Plant Molecular Biology*, **2007**, 65, 799-815	4.6	203
14	The rice (E)-beta-caryophyllene synthase (OsTPS3) accounts for the major inducible volatile sesquiterpenes. *Phytochemistry*, **2007**, 68, 1632-41	4	167
13	Phytochrome chromophore deficiency leads to overproduction of jasmonic acid and elevated expression of jasmonate-responsive genes in Arabidopsis. *Plant and Cell Physiology*, **2007**, 48, 1061-71	4.9	57
12	Role of ethylene signaling in the production of rice volatiles induced by the rice brown planthopper Nilaparvata lugens. *Science Bulletin*, **2006**, 51, 2457-2465		45
11	Silencing of a germin-like gene in Nicotiana attenuata improves performance of native herbivores. *Plant Physiology*, **2006**, 140, 1126-36	6.6	105
10	The wound response mutant suppressor of prosystemin-mediated responses6 (spr6) is a weak allele of the tomato homolog of CORONATINE-INSENSITIVE1 (COI1). *Plant and Cell Physiology*, **2006**, 47, 653-63	4.9	24
9	Differences in induced volatile emissions among rice varieties result in differential attraction and parasitism of Nilaparvata lugens eggs by the parasitoid Anagrus nilaparvatae in the field. *Journal of Chemical Ecology*, **2006**, 32, 2375-87	2.7	81
8	Non-host plant extracts reduce oviposition of Plutella xylostella (Lepidoptera: Plutellidae) and enhance parasitism by its parasitoid Cotesia plutellae (Hymenoptera: Braconidae). *Bulletin of Entomological Research*, **2006**, 96, 373-8	1.7	7
7	Exogenous application of jasmonic acid induces volatile emissions in rice and enhances parasitism of Nilaparvata lugens eggs by the parasitoid Anagrus nilaparvatae. *Journal of Chemical Ecology*, **2005**, 31, 1985-2002	2.7	129

6	Attraction of the parasitoid Anagrus nilaparvatae to rice volatiles induced by the rice brown planthopper Nilaparvata lugens. *Journal of Chemical Ecology*, **2005**, 31, 2357-72	2.7	105
5	Nitrogen supply influences herbivore-induced direct and indirect defenses and transcriptional responses in Nicotiana attenuata. *Plant Physiology*, **2004**, 135, 496-506	6.6	100
4	Role of rice volatiles in the foraging behaviour of the predator Cyrtorhinus lividipennis for the rice brown planthopper Nilaparvata lugens. *BioControl*, **2003**, 48, 73-86	2.3	38
3	Manduca sexta recognition and resistance among allopolyploid Nicotiana host plants. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100 Suppl 2, 14581-6	11.5	83
2	Host-recognition kairomone from Sogatella furcifera for the parasitoid Anagrus nilaparvatae. *Entomologia Experimentalis Et Applicata*, **2001**, 101, 59-67	2.1	13
1	Intra- and Inter-specific Effects of the Brown Planthopper and White Backed Planthopper on Their Population Performance. *Journal of Asia-Pacific Entomology*, **2001**, 4, 85-92	1.4	14