Yong-Gen Lou

List of Publications by Year
in descending order

100 papers	6,323 citations	50276 46 h-index	71685 76 g-index
104 all docs	104 docs citations	104 times ranked	6050 citing authors

#	Article	IF	Citations
1	Plant Terpenoids: Biosynthesis and Ecological Functions. Journal of Integrative Plant Biology, 2007, 49, 179-186.	8.5	352
2	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, 313-324.	8.3	350
3	Overexpression of rice WRKY89 enhances ultraviolet B tolerance and disease resistance in rice plants. Plant Molecular Biology, 2007, 65, 799-815.	3.9	268
4	Silencing <i>OsHIâ€LOX</i> makes rice more susceptible to chewing herbivores, but enhances resistance to a phloem feeder. Plant Journal, 2009, 60, 638-648.	5.7	244
5	Transcriptome Analysis of the Brown Planthopper Nilaparvata lugens. PLoS ONE, 2010, 5, e14233.	2.5	229
6	The rice (E)-Î²-caryophyllene synthase (OsTPS3) accounts for the major inducible volatile sesquiterpenes. Phytochemistry, 2007, 68, 1632-1641.	2.9	189
7	An EARâ€motifâ€containing ERF transcription factor affects herbivoreâ€induced signaling, defense and resistance in rice. Plant Journal, 2011, 68, 583-596.	5.7	166
8	Specific herbivoreâ€induced volatiles defend plants and determine insect community composition in the field. Ecology Letters, 2012, 15, 1130-1139.	6.4	159
9	Exogenous Application of Jasmonic Acid Induces Volatile Emissions in Rice and Enhances Parasitism of Nilaparvata lugens Eggs by theParasitoid Anagrus nilaparvatae. Journal of Chemical Ecology, 2005, 31, 1985-2002.	1.8	147
10	Resistance of rice to insect pests mediated by suppression of serotonin biosynthesis. Nature Plants, 2018, 4, 338-344.	9.3	144
11	The rice hydroperoxide lyase OsHPL3 functions in defense responses by modulating the oxylipin pathway. Plant Journal, 2012, 71, 763-775.	5.7	140
12	Echinochloa crus-galli genome analysis provides insight into its adaptation and invasiveness as a weed. Nature Communications, 2017, 8, 1031.	12.8	138
13	Nitrogen Supply Influences Herbivore-Induced Direct and Indirect Defenses and Transcriptional Responses in Nicotiana attenuata. Plant Physiology, 2004, 135, 496-506.	4.8	128
14	Attraction of the Parasitoid Anagrus nilaparvatae to Rice Volatiles Induced by the Rice Brown Planthopper Nilaparvata lugens. Journal of Chemical Ecology, 2005, 31, 2357-2372.	1.8	123
15	Altered Disease Development in the eui Mutants and Eui Overexpressors Indicates that Gibberellins Negatively Regulate Rice Basal Disease Resistance. Molecular Plant, 2008, 1, 528-537.	8.3	123
16	Biological control of rice insect pests in China. Biological Control, 2013, 67, 8-20.	3.0	122
17	Silencing of a Germin-Like Gene in Nicotiana attenuata Improves Performance of Native Herbivores Â. Plant Physiology, 2006, 140, 1126-1136.	4.8	121
18	Prioritizing plant defence over growth through WRKY regulation facilitates infestation by non-target herbivores. ELife, 2015, 4, e04805.	6.0	118

#	Article	IF	Citations
19	An E3Â Ubiquitin Ligase-BAG Protein Module Controls Plant Innate Immunity and Broad-Spectrum Disease Resistance. Cell Host and Microbe, 2016, 20, 758-769.	11.0	109
20	Induced Jasmonate Signaling Leads to Contrasting Effects on Root Damage and Herbivore Performance. Plant Physiology, 2015, 167, 1100-1116.	4.8	104
21	Comparative Transcriptome Analysis of Salivary Glands of Two Populations of Rice Brown Planthopper, Nilaparvata lugens, That Differ in Virulence. PLoS ONE, 2013, 8, e79612.	2.5	100
22	A Salivary Endo-Î²-1,4-Glucanase Acts as an Effector That Enables the Brown Planthopper to Feed on Rice. Plant Physiology, 2017, 173, 1920-1932.	4.8	99
23	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.	8.3	94
24	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, 2375-2387.	1.8	90
25	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, 14581-14586.	7.1	88
26	Molecular Dissection of Early Defense Signaling Underlying Volatile-Mediated Defense Regulation and Herbivore Resistance in Rice. Plant Cell, 2019, 31, 687-698.	6.6	82
27	The Chloroplast-Localized Phospholipases D Î±4 and Î±5 Regulate Herbivore-Induced Direct and Indirect Defenses in Rice Â Â. Plant Physiology, 2011, 157, 1987-1999.	4.8	77
28	OsMPK3 positively regulates the JA signaling pathway and plant resistance to a chewing herbivore in rice. Plant Cell Reports, 2013, 32, 1075-1084.	5.6	75
29	The rice transcription factor WRKY53 suppresses herbivore-induced defenses by acting as a negative feedback modulator of map kinase activity. Plant Physiology, 2015, 169, pp.01090.2015.	4.8	75
30	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.	3.3	75
31	OsLRRâ€RLK1, an early responsive leucineâ€rich repeat receptorâ€like kinase, initiates rice defense responses against a chewing herbivore. New Phytologist, 2018, 219, 1097-1111.	7.3	75
32	Jasmonic acid carboxyl methyltransferase regulates development and herbivoryâ€induced defense response in rice. Journal of Integrative Plant Biology, 2016, 58, 564-576.	8.5	72
33	Molecular dissection of rice phytohormone signaling involved in resistance to a piercingâ€sucking herbivore. New Phytologist, 2021, 230, 1639-1652.	7.3	72
34	Plant-insect-microbe interaction: A love triangle between enemies in ecosystem. Science of the Total Environment, 2020, 699, 134181.	8.0	67
35	Phytochrome Chromophore Deficiency Leads to Overproduction of Jasmonic Acid and Elevated Expression of Jasmonate-Responsive Genes in Arabidopsis. Plant and Cell Physiology, 2007, 48, 1061-1071.	3.1	61
36	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.	4.0	60

#	Article	IF	Citations
37	PRRs and NB-LRRs: From Signal Perception to Activation of Plant Innate Immunity. International Journal of Molecular Sciences, 2019, 20, 1882.	4.1	60
38	Genomeâ€wide transcriptional changes and defenceâ€related chemical profiling of rice in response to infestation by the rice striped stem borer <i>Chilo suppressalis</i>. Physiologia Plantarum, 2011, 143, 21-40.	5.2	57
39	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, 690-699.	5.7	56
40	Differential attraction of parasitoids in relation to specificity of kairomones from herbivores and their byâ€products. Insect Science, 2008, 15, 381-397.	3.0	56
41	OsWRKY53, a versatile switch in regulating herbivore-induced defense responses in rice. Plant Signaling and Behavior, 2016, 11, e1169357.	2.4	55
42	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.	8.3	55
43	Zinc finger protein transcription factors: Integrated line of action for plant antimicrobial activity. Microbial Pathogenesis, 2019, 132, 141-149.	2.9	55
44	The broadâ€leaf herbicide 2,4â€dichlorophenoxyacetic acid turns rice into a living trap for a major insect pest and a parasitic wasp. New Phytologist, 2012, 194, 498-510.	7.3	54
45	The Transcription Factor OsWRKY45 Negatively Modulates the Resistance of Rice to the Brown Planthopper Nilaparvata lugens. International Journal of Molecular Sciences, 2016, 17, 697.	4.1	53
46	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.	5.2	52
47	<i><scp>OsNPR1</scp></i> negatively regulates herbivoreâ€induced <scp>JA</scp> and ethylene signaling and plant resistance to a chewing herbivore in rice. Physiologia Plantarum, 2013, 147, 340-351.	5.2	49
48	Reprint of: Biological control of rice insect pests in China. Biological Control, 2014, 68, 103-116.	3.0	48
49	Role of ethylene signaling in the production of rice volatiles induced by the rice brown planthopper Nilaparvata lugens. Science Bulletin, 2006, 51, 2457-2465.	1.7	47
50	Title is missing!. BioControl, 2003, 48, 73-86.	2.0	44
51	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, 22-29.	2.0	42
52	Silencing <i>OsSLR1</i> enhances the resistance of rice to the brown planthopper <scp><i>Nilaparvata lugens</i></scp>. Plant, Cell and Environment, 2017, 40, 2147-2159.	5.7	37
53	OsMKK3, a Stress-Responsive Protein Kinase, Positively Regulates Rice Resistance to Nilaparvata lugens via Phytohormone Dynamics. International Journal of Molecular Sciences, 2019, 20, 3023.	4.1	35
54	Î²-Glucosidase treatment and infestation by the rice brown planthopper Nilaparvata lugens elicit similar signaling pathways in rice plants. Science Bulletin, 2008, 53, 53-57.	1.7	34

#	Article	IF	Citations
55	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.	7.1	33
56	Overexpression of OsGID1 Enhances the Resistance of Rice to the Brown Planthopper Nilaparvata lugens. International Journal of Molecular Sciences, 2018, 19, 2744.	4.1	32
57	A Group D MAPK Protects Plants from Autotoxicity by Suppressing Herbivore-Induced Defense Signaling. Plant Physiology, 2019, 179, 1386-1401.	4.8	31
58	Expressing OsMPK4 Impairs Plant Growth but Enhances the Resistance of Rice to the Striped Stem Borer Chilo suppressalis. International Journal of Molecular Sciences, 2018, 19, 1182.	4.1	28
59	Rice copine genes <i>Os<scp>BON</scp>1</i> and <i>Os<scp>BON</scp>3</i> function as suppressors of broadâ€spectrum disease resistance. Plant Biotechnology Journal, 2018, 16, 1476-1487.	8.3	27
60	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.	4.2	27
61	Long nonâ€coding <scp>RNAs</scp> associate with jasmonateâ€mediated plant defence against herbivores. Plant, Cell and Environment, 2021, 44, 982-994.	5.7	27
62	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, 653-663.	3.1	26
63	(E)-Î²-caryophyllene functions as a host location signal for the rice white-backed planthopper Sogatella furcifera. Physiological and Molecular Plant Pathology, 2015, 91, 106-112.	2.5	24
64	Cooperative herbivory between two important pests of rice. Nature Communications, 2021, 12, 6772.	12.8	24
65	Transcriptome Analysis of Fat Bodies from Two Brown Planthopper (Nilaparvata lugens) Populations with Different Virulence Levels in Rice. PLoS ONE, 2014, 9, e88528.	2.5	23
66	Evolutionary changes in an invasive plant support the defensive role of plant volatiles. Current Biology, 2021, 31, 3450-3456.e5.	3.9	22
67	Overexpression of a Xylanase Inhibitor Gene, OsHI-XIP, Enhances Resistance in Rice to Herbivores. Plant Molecular Biology Reporter, 2014, 32, 465-475.	1.8	21
68	The jasmonic acidâ€amino acid conjugates <scp>JAâ€Val</scp> and <scp>JAâ€Leu</scp> are involved in rice resistance to herbivores. Plant, Cell and Environment, 2022, 45, 262-272.	5.7	21
69	Salicylic acid and ethylene signaling pathways are involved in production of rice trypsin proteinase inhibitors induced by the leaf folder Cnaphalocrocis medinalis (GuenÃ©e). Science Bulletin, 2011, 56, 2351-2358.	1.7	20
70	Host-recognition kairomone from Sogatella furcifera for the parasitoid Anagrus nilaparvatae. Entomologia Experimentalis Et Applicata, 2001, 101, 59-67.	1.4	19
71	Identification and Characterization of MicroRNAs in Small Brown Planthopper (Laodephax) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	2.5	19
72	Finding new elicitors that induce resistance in rice to the white-backed planthopper Sogatella furcifera. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 5601-5603.	2.2	18

#	Article	IF	Citations
73	Non-Host Plant Volatiles Disrupt Sex Pheromone Communication in a Specialist Herbivore. Scientific Reports, 2016, 6, 32666.	3.3	17
74	Rice phenolamindes reduce the survival of female adults of the white-backed planthopper Sogatella furcifera. Scientific Reports, 2020, 10, 5778.	3.3	17
75	Both Allene Oxide Synthases Genes Are Involved in the Biosynthesis of Herbivore-Induced Jasmonic Acid and Herbivore Resistance in Rice. Plants, 2021, 10, 442.	3.5	17
76	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.	0.9	16
77	Feeding-Induced Interactions Between Two Rice Planthoppers, <I>Nilaparvata lugens</I> and <I>Sogatella furcifera</I> (Hemiptera: Delphacidae): Effects on Feeding and Honeydew Excretion. Environmental Entomology, 2013, 42, 1281-1291.	1.4	15
78	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.	5.7	13
79	Suppression of a leucineâ€rich repeat receptorâ€like kinase enhances host plant resistance to a specialist herbivore. Plant, Cell and Environment, 2020, 43, 2571-2585.	5.7	13
80	Feeding-Induced Interactions Between<i>Nilaparvata lugens</i>and<i>Laodelphax striatellus</i>(Hemiptera: Delphacidae): Effects on Feeding Behavior and Honeydew Excretion. Environmental Entomology, 2013, 42, 987-997.	1.4	12
81	The Desaturase Gene Family is Crucially Required for Fatty Acid Metabolism and Survival of the Brown Planthopper, Nilaparvata lugens. International Journal of Molecular Sciences, 2019, 20, 1369.	4.1	12
82	(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.	1.8	11
83	Exogenous Gibberellin GA3 Enhances Defense Responses in Rice to the Brown Planthopper Nilaparvata lugens (StÃ¥l). Journal of Plant Biology, 2020, 64, 379.	2.1	11
84	Role of jasmonate signaling in rice resistance to the leaf folder Cnaphalocrocis medinalis. Plant Molecular Biology, 2022, 109, 627-637.	3.9	11
85	A conserved pattern in plantâ€mediated interactions between herbivores. Ecology and Evolution, 2016, 6, 1032-1040.	1.9	10
86	The lipoxygenase gene <i>OsRCIâ€1</i> is involved in the biosynthesis of herbivoreâ€induced JAs and regulates plant defense and growth in rice. Plant, Cell and Environment, 2022, 45, 2827-2840.	5.7	10
87	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.	1.9	9
88	The Commonly Used Bactericide Bismerthiazol Promotes Rice Defenses against Herbivores. International Journal of Molecular Sciences, 2018, 19, 1271.	4.1	9
89	Silencing an E3 Ubiquitin Ligase Gene OsJMJ715 Enhances the Resistance of Rice to a Piercing-Sucking Herbivore by Activating ABA and JA Signaling Pathways. International Journal of Molecular Sciences, 2021, 22, 13020.	4.1	8
90	Preference and Performance of <I>Anagrus nilaparvatae</I> (Hymenoptera: Mymaridae): Effect of Infestation Duration and Density by <I>Nilaparvata lugens</I> (Homoptera: Delphacidae). Environmental Entomology, 2008, 37, 748-754.	1.4	7

#	Article	IF	Citations
91	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.	1.0	7
92	Furan carbonylhydrazones-derived elicitors that induce the resistance of rice to the brown planthopper Nilaparvata lugens. Phytochemistry Letters, 2018, 26, 184-189.	1.2	5
93	Silencing <i>OsMAPK20-5</i> has different effects on rice pests in the field. Plant Signaling and Behavior, 2019, 14, e1640562.	2.4	5
94	Overexpression of a Cytosolic 6-Phosphogluconate Dehydrogenase Gene Enhances the Resistance of Rice to Nilaparvata lugens. Plants, 2020, 9, 1529.	3.5	5
95	Herbivore-Induced Defenses in Rice and Their Potential Application in Rice Planthopper Management. , 2015, , 91-115.		5
96	Silencing a Simple Extracellular Leucine-Rich Repeat Gene OsI-BAK1 Enhances the Resistance of Rice to Brown Planthopper Nilaparvata lugens. International Journal of Molecular Sciences, 2021, 22, 12182.	4.1	4
97	The Desaturase Gene Nlug-desatA2 Regulates the Performance of the Brown Planthopper Nilaparvata lugens and Its Relationship with Rice. International Journal of Molecular Sciences, 2020, 21, 4143.	4.1	2
98	Low-level cadmium exposure influences rice resistance to herbivores by priming jasmonate signaling. Environmental and Experimental Botany, 2022, 194, 104741.	4.2	1
99	Editorial: Inducing Plant Resistance Against Insects Using Exogenous Bioactive Chemicals: Key Advances and Future Perspectives. Frontiers in Plant Science, 2022, 13, 890884.	3.6	1
100	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, i.	5.7	0