

# Lang-Tao Xiao

## List of Publications by Year in descending order

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103  
papers

5,073  
citations

109321  
35  
h-index

98798  
67  
g-index

105  
all docs

105  
docs citations

105  
times ranked

6900  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plant hormone jasmonate prioritizes defense over growth by interfering with gibberellin signaling cascade. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1192-200.	7.1	697
2	Gibberellin Acts through Jasmonate to Control the Expression of MYB21, MYB24, and MYB57 to Promote Stamen Filament Growth in Arabidopsis. PLoS Genetics, 2009, 5, e1000440.	3.5	357
3	Regulation of Drought Tolerance by the F-Box Protein MAX2 in Arabidopsis. Plant Physiology, 2014, 164, 424-439.	4.8	254
4	The Arabidopsis AP2/ERF transcription factor RAP2.6 participates in ABA, salt and osmotic stress responses. Gene, 2010, 457, 1-12.	2.2	240
5	A Wheat Allene Oxide Cyclase Gene Enhances Salinity Tolerance via Jasmonate Signaling. Plant Physiology, 2014, 164, 1068-1076.	4.8	198
6	Injury Activates Ca <sup>2+</sup> /Calmodulin-Dependent Phosphorylation of JAV1-JAZ8-WRKY51 Complex for Jasmonate Biosynthesis. Molecular Cell, 2018, 70, 136-149.e7.	9.7	191
7	<i>LABA1</i> , a Domestication Gene Associated with Long, Barbed Awns in Wild Rice. Plant Cell, 2015, 27, 1875-1888.	6.6	178
8	<i>YUCCA</i> -mediated auxin biogenesis is required for cell fate transition occurring during <i>de novo</i> root organogenesis in Arabidopsis. Journal of Experimental Botany, 2016, 67, 4273-4284.	4.8	156
9	Wheat Oxophytodienoate Reductase Gene <i>TaOPR1</i> Confers Salinity Tolerance via Enhancement of Absciscic Acid Signaling and Reactive Oxygen Species Scavenging. Plant Physiology, 2013, 161, 1217-1228.	4.8	146
10	A jacalin-related lectin-like gene in wheat is a component of the plant defence system. Journal of Experimental Botany, 2011, 62, 5471-5483.	4.8	119
11	POWERDRESS and HDA9 interact and promote histone H3 deacetylation at specific genomic sites in <i>Arabidopsis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14858-14863.	7.1	111
12	Constitutive expression of cell wall invertase genes increases grain yield and starch content in maize. Plant Biotechnology Journal, 2013, 11, 1080-1091.	8.3	97
13	AUXIN RESPONSE FACTOR3 Regulates Floral Meristem Determinacy by Repressing Cytokinin Biosynthesis and Signaling. Plant Cell, 2018, 30, 324-346.	6.6	89
14	<i>PAY1</i> improves plant architecture and enhances grain yield in rice. Plant Journal, 2015, 83, 528-536.	5.7	87
15	A GmSIN1/GmNCED3s/GmRbohBs Feed-Forward Loop Acts as a Signal Amplifier That Regulates Root Growth in Soybean Exposed to Salt Stress. Plant Cell, 2019, 31, 2107-2130.	6.6	87
16	POWERDRESS and Diversified Expression of the MIR172 Gene Family Bolster the Floral Stem Cell Network. PLoS Genetics, 2013, 9, e1003218.	3.5	85
17	Endogenous Bioactive Jasmonate Is Composed of a Set of (+)-7- <i>iso</i> -JA-Amino Acid Conjugates. Plant Physiology, 2016, 172, 2154-2164.	4.8	73
18	Pressurized liquid extraction of ginger ( <i>Zingiber officinale</i> Roscoe) with bioethanol: An efficient and sustainable approach. Journal of Chromatography A, 2011, 1218, 5765-5773.	3.7	72

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19	Plastid casein kinase 2 knockout reduces abscisic acid (ABA) sensitivity, thermotolerance, and expression of ABA- and heat-stress-responsive nuclear genes. <i>Journal of Experimental Botany</i> , 2014, 65, 4159-4175.	4.8	72
20	A KNOTTED1-LIKE HOMEODOMAIN PROTEIN REGULATES ABSCISSION IN TOMATO BY MODULATING THE AUXIN PATHWAY. <i>Plant Physiology</i> , 2015, 167, 844-853.	4.8	66
21	Perturbation of Auxin Homeostasis Caused by Mitochondrial FtsH4 Gene-Mediated Peroxidase Accumulation Regulates Arabidopsis Architecture. <i>Molecular Plant</i> , 2014, 7, 856-873.	8.3	65
22	Arabidopsis MYB24 Regulates Jasmonate-Mediated Stamen Development. <i>Frontiers in Plant Science</i> , 2017, 8, 1525.	3.6	59
23	AtPER1 enhances primary seed dormancy and reduces seed germination by suppressing the ABA catabolism and GA biosynthesis in <i>Arabidopsis</i> seeds. <i>Plant Journal</i> , 2020, 101, 310-323.	5.7	57
24	CpARF2 and CpEIL1 interact to mediate auxin-ethylene interaction and regulate fruit ripening in papaya. <i>Plant Journal</i> , 2020, 103, 1318-1337.	5.7	54
25	Dynamic Cytology and Transcriptional Regulation of Rice Lamina Joint Development. <i>Plant Physiology</i> , 2017, 174, 1728-1746.	4.8	53
26	<i>APETALA2</i> antagonizes the transcriptional activity of <i>AGAMOUS</i> in regulating floral stem cells in <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2017, 215, 1197-1209.	7.3	53
27	<i>SKP1</i> is involved in abscisic acid signalling to regulate seed germination, stomatal opening and root growth in <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , 2012, 35, 952-965.	5.7	50
28	Comparative proteomic analysis of seedling leaves of cold-tolerant and -sensitive spring soybean cultivars. <i>Molecular Biology Reports</i> , 2015, 42, 581-601.	2.3	47
29	Brassinolide Increases Potato Root Growth <i>In Vitro</i> in a Dose-Dependent Way and Alleviates Salinity Stress. <i>BioMed Research International</i> , 2016, 2016, 1-11.	1.9	44
30	Effects of Chlorocholine Chloride on Phytohormones and Photosynthetic Characteristics in Potato ( <i>Solanum tuberosum</i> L.). <i>Journal of Plant Growth Regulation</i> , 2009, 28, 21-27.	5.1	41
31	Characterization and fine-mapping of a novel premature leaf senescence mutant yellow leaf and dwarf 1 in rice. <i>Plant Physiology and Biochemistry</i> , 2017, 111, 50-58.	5.8	40
32	IPyA glucosylation mediates light and temperature signaling to regulate auxin-dependent hypocotyl elongation in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6910-6917.	7.1	39
33	DNA Topoisomerase I Affects Polycomb Group Protein-Mediated Epigenetic Regulation and Plant Development by Altering Nucleosome Distribution in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 2803-2817.	6.6	38
34	Amperometric immunosensor based on polypyrrole/poly(m-phenylenediamine) multilayer on glassy carbon electrode for cytokinin N <sup>6</sup> -( $\gamma$ -2-isopentenyl) adenosine assay. <i>Analytical Biochemistry</i> , 2003, 321, 89-95.	2.4	36
35	<i>FAR-RED ELONGATED HYPOCOTYL3</i> activates <i>SEPALLATA2</i> but inhibits <i>CLAVATA3</i> to regulate meristem determinacy and maintenance in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9375-9380.	7.1	36
36	Negative Regulation of Systemic Acquired Resistance by Replication Factor C Subunit3 in Arabidopsis. <i>Plant Physiology</i> , 2009, 150, 2009-2017.	4.8	35

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37	Mutations in the Rice OsCHR4 Gene, Encoding a CHD3 Family Chromatin Remodeler, Induce Narrow and Rolled Leaves with Increased Cuticular Wax. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2567.	4.1	35
38	A putative pyruvate transporter TaBASS2 positively regulates salinity tolerance in wheat via modulation of ABI4 expression. <i>BMC Plant Biology</i> , 2016, 16, 109.	3.6	34
39	Gene expression and plant hormone levels in two contrasting rice genotypes responding to brown planthopper infestation. <i>BMC Plant Biology</i> , 2017, 17, 57.	3.6	34
40	The H3K27me3 Demethylase RELATIVE OF EARLY FLOWERING6 Suppresses Seed Dormancy by Inducing Absciscic Acid Catabolism. <i>Plant Physiology</i> , 2020, 184, 1969-1978.	4.8	33
41	Phytohormone dynamics in developing endosperm influence rice grain shape and quality. <i>Journal of Integrative Plant Biology</i> , 2020, 62, 1625-1637.	8.5	33
42	A renewable amperometric immunosensor for phytohormone $\hat{I}^2$ -indole acetic acid assay. <i>Analytica Chimica Acta</i> , 2003, 494, 177-185.	5.4	32
43	Determination of both jasmonic acid and methyl jasmonate in plant samples by liquid chromatography tandem mass spectrometry. <i>Science Bulletin</i> , 2010, 55, 2231-2235.	1.7	31
44	RFC3 regulates cell proliferation and pathogen resistance in Arabidopsis. <i>Plant Signaling and Behavior</i> , 2010, 5, 168-170.	2.4	31
45	Phytohormonal quantification based on biological principles. , 2017, , 431-470.		31
46	The URL1â€“ROC5â€“TPL2 transcriptional repressor complex represses the <i>ACL1</i> gene to modulate leaf rolling in rice. <i>Plant Physiology</i> , 2021, 185, 1722-1744.	4.8	30
47	Nitrate, absciscic acid and gibberellin interactions on the thermoinhibition of lettuce seed germination. <i>Plant Growth Regulation</i> , 2012, 66, 191-202.	3.4	28
48	A Class II small heat shock protein OsHsp18.0 plays positive roles in both biotic and abiotic defense responses in rice. <i>Scientific Reports</i> , 2017, 7, 11333.	3.3	28
49	Wheat methionine sulfoxide reductase A4.1 interacts with heme oxygenase 1 to enhance seedling tolerance to salinity or drought stress. <i>Plant Molecular Biology</i> , 2019, 101, 203-220.	3.9	28
50	Comparative proteomic analysis reveals molecular mechanism of seedling roots of different salt tolerant soybean genotypes in responses to salinity stress. <i>EuPA Open Proteomics</i> , 2014, 4, 40-57.	2.5	27
51	The alteration in the architecture of a Tâ€“DNA insertion rice mutant <i>osmtd1</i> is caused by upâ€“regulation of <i>MicroRNA156f</i>. <i>Journal of Integrative Plant Biology</i> , 2015, 57, 819-829.	8.5	26
52	Chemical pre-reduction and electro-reduction guided preparation of a porous graphene bionanocomposite for indole-3-acetic acid detection. <i>Nanoscale</i> , 2019, 11, 962-967.	5.6	26
53	An impedance immunosensor for the detection of the phytohormone absciscic acid. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 2869-2874.	3.7	22
54	Piezoelectric immunosensor with gold nanoparticles enhanced competitive immunoreaction technique for 2,4-dichlorophenoxyacetic acid quantification. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 568-573.	7.8	22

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55	Chlorocholine chloride application effects on photosynthetic capacity and photoassimilates partitioning in potato ( <i>Solanum tuberosum</i> L.). <i>Scientia Horticulturae</i> , 2009, 119, 113-116.	3.6	21
56	A Novel Piezoelectric Biosensor for the Detection of Phytohormone .BETA.-Indole Acetic Acid.. <i>Analytical Sciences</i> , 2002, 18, 403-407.	1.6	20
57	Comparative proteomics analysis reveals the mechanism of fertility alternation of thermosensitive genic male sterile rice lines under low temperature inducement. <i>Proteomics</i> , 2015, 15, 1884-1905.	2.2	20
58	Transforming compound leaf patterning by manipulating REVOLUTA in <i>Medicago truncatula</i> . <i>Plant Journal</i> , 2019, 100, 562-571.	5.7	20
59	Systems model-guided rice yield improvements based on genes controlling source, sink, and flow. <i>Journal of Integrative Plant Biology</i> , 2018, 60, 1154-1180.	8.5	19
60	Magnetic Ti3C2 MXene functionalized with $\beta$ -cyclodextrin as magnetic solid-phase extraction and in situ derivatization for determining 12 phytohormones in oilseeds by ultra-performance liquid chromatography-tandem mass spectrometry. <i>Phytochemistry</i> , 2021, 183, 112611.	2.9	18
61	Tiller number is altered in the ascorbic acid-deficient rice suppressed for l-galactono-1,4-lactone dehydrogenase. <i>Journal of Plant Physiology</i> , 2013, 170, 389-396.	3.5	17
62	3D Visualization and Volume-Based Quantification of Rice Chalkiness In Vivo by Using High Resolution Micro-CT. <i>Rice</i> , 2020, 13, 69.	4.0	17
63	A Novel Amperometric Immunosensor for Phytohormone Absciscic Acid Based on In Situ Chemical Reductive Growth of Gold Nanoparticles on Glassy Carbon Electrode. <i>Analytical Letters</i> , 2009, 42, 2893-2904.	1.8	14
64	Foliar application of chlorocholine chloride improves leaf mineral nutrition, antioxidant enzyme activity, and tuber yield of potato ( <i>Solanum tuberosum</i> L.). <i>Scientia Horticulturae</i> , 2010, 125, 521-523.	3.6	14
65	Microarray-based gene expression analysis of strong seed dormancy in rice cv. N22 and less dormant mutant derivatives. <i>Plant Physiology and Biochemistry</i> , 2016, 99, 27-38.	5.8	14
66	Effects of indole-3-acetic acid and auxin transport inhibitor on auxin distribution and development of peanut at pegging stage. <i>Scientia Horticulturae</i> , 2013, 162, 76-81.	3.6	13
67	<i>Pennisetum sinense</i> : A Potential Phytoremediation Plant for Chromium Deletion from Soil. <i>Sustainability</i> , 2020, 12, 3651.	3.2	13
68	Assessment of Genetic Parameters and Gene Action Associated with Heterosis for Enhancing Yield Characters in Novel Hybrid Rice Parental Lines. <i>Plants</i> , 2022, 11, 266.	3.5	13
69	A novel impedance immunosensor based on O-phenylenediamine modified gold electrode to analyze absciscic acid. <i>Chinese Chemical Letters</i> , 2010, 21, 472-475.	9.0	12
70	An automatic versatile system integrating solid-phase extraction with ultra-high performance liquid chromatography-tandem mass spectrometry using a dual-dilution strategy for direct analysis of auxins in plant extracts. <i>Journal of Chromatography A</i> , 2014, 1359, 131-139.	3.7	11
71	Gibberellin Increases the Bud Yield and Theanine Accumulation in <i>Camellia sinensis</i> (L.) Kuntze. <i>Molecules</i> , 2021, 26, 3290.	3.8	11
72	A cupin domain is involved in $\alpha$ -amylase inhibitory activity. <i>Plant Science</i> , 2018, 277, 285-295.	3.6	10

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73	Dynamic formation and transcriptional regulation mediated by phytohormones during chalkiness formation in rice. <i>BMC Plant Biology</i> , 2021, 21, 308.	3.6	10
74	Arabidopsis replication factor C subunit 1 plays an important role in embryogenesis. Zhi Wu Sheng Li Yu Fen Zi Sheng Wu Xue Xue Bao = Journal of Plant Physiology and Molecular Biology, 2007, 33, 179-87.	0.0	10
75	Optimizing Adsorption of $17\beta$ -Ethinylestradiol from Water by Magnetic MXene Using Response Surface Methodology and Adsorption Kinetics, Isotherm, and Thermodynamics Studies. <i>Molecules</i> , 2021, 26, 3150.	3.8	9
76	Synthesis, characterization and absorption evaluation of bifunctional monomer magnetic molecularly imprinted polymers nanoparticles for the extraction of 6-benzylaminopurine from vegetables. <i>Food Chemistry</i> , 2022, 386, 132792.	8.2	9
77	Reduced grain chalkiness and its possible physiological mechanism in transgenic rice overexpressing l-GalLDH. <i>Crop Journal</i> , 2015, 3, 125-134.	5.2	8
78	Auxin Extraction and Purification Based on Recombinant Aux/IAA Proteins. <i>Biological Procedures Online</i> , 2017, 19, 1.	2.9	8
79	Dispersing gold nanoparticles on thiolated polyaniline-multiwalled carbon nanotubes for development of an indole-3-acetic acid amperometric immunosensor. <i>Nanoscale Advances</i> , 2019, 1, 3607-3613.	4.6	8
80	Manipulating osa-MIR156f Expression by D18 Promoter to Regulate Plant Architecture and Yield Traits both in Seasonal and Ratoon Rice. <i>Biological Procedures Online</i> , 2019, 21, 21.	2.9	8
81	A recessive high-density pod mutant resource of <i>Brassica napus</i> . <i>Plant Science</i> , 2020, 293, 110411.	3.6	8
82	Identification of Potential Auxin-Responsive Small Signaling Peptides through a Peptidomics Approach in <i>Arabidopsis thaliana</i> . <i>Molecules</i> , 2019, 24, 3146.	3.8	7
83	Sensitive and high throughput quantification of abscisic acid based on quantitative real time immuno-PCR. <i>Plant Methods</i> , 2018, 14, 104.	4.3	6
84	Quantitative Proteomic Analyses Identify STO/BBX24 -Related Proteins Induced by UV-B. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2496.	4.1	6
85	Characteristics of the Mesophyllous Cells in the Sheaths of Rice ( <i>Oryza sativa</i> L.). <i>Agricultural Sciences in China</i> , 2011, 10, 1354-1364.	0.6	5
86	Dynamics of phytohormones and their relationship with chalkiness of early indica rice under different post-anthesis temperature regimes. <i>Bangladesh Journal of Agricultural Research</i> , 2017, 42, 53-65.	0.1	5
87	Preparation of porous thiolated polymer nanocomposite for construction of sensitive and selective phytohormone amperometric immunosensor. <i>Microchemical Journal</i> , 2020, 153, 104380.	4.5	5
88	The Copy Number Variation of OsMTD1 Regulates Rice Plant Architecture. <i>Frontiers in Plant Science</i> , 2020, 11, 620282.	3.6	5
89	In Situ Visual Distribution of Gelsemine, Koumine, and Gelsenicine by MSI in <i>Gelsemium elegans</i> at Different Growth Stages. <i>Molecules</i> , 2022, 27, 1810.	3.8	5
90	Study on the Relationship Between the Toxin of <i>Phytophthora infestans</i> (Mont.) de Bary and Resistance of Potato. <i>Agricultural Sciences in China</i> , 2011, 10, 238-245.	0.6	3

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91	MtPIN1 and MtPIN3 Play Dual Roles in Regulation of Shade Avoidance Response under Different Environments in <i>Medicago truncatula</i> . <i>International Journal of Molecular Sciences</i> , 2020, 21, 8742.	4.1	3
92	Principles and Practice of ABA Analysis. , 2014, , 431-446.		3
93	The synthesis of strigolactone is affected by endogenous ascorbic acid in transgenic rice for l-galactono-1, 4-lactone dehydrogenase suppressed or overexpressing. <i>Journal of Plant Physiology</i> , 2020, 246-247, 153139.	3.5	2
94	Exploiting heterosis and combining ability in two-line hybrid rice. <i>Acta Agriculturae Slovenica</i> , 2021, 117, 1.	0.3	2
95	Studies on measurement system for rice chalkiness based on computer image processing. <i>Hunan Nong Ye Da Xue Xue Bao = Journal of Hunan Agricultural University</i> , 2011, 37, 469-473.	0.0	2
96	Effect of temperature on chalkiness and related physiological and biochemical characteristics of early indica rice during grain filling. <i>Research on Crops</i> , 2014, 15, 313.	0.1	2
97	Identification of Conserved and Divergent Strigolactone Receptors in Sugarcane Reveals a Key Residue Crucial for Plant Branching Control. <i>Frontiers in Plant Science</i> , 2021, 12, 747160.	3.6	2
98	Dual Catalytic Hairpin Assembly-Based Automatic Molecule Machine for Amplified Detection of Auxin Response Factor-Targeted MicroRNA-160. <i>Molecules</i> , 2021, 26, 6432.	3.8	1
99	Recent advances in electrochemical sensing of phytohormones. <i>Scientia Sinica Chimica</i> , 2016, 46, 759-767.	0.4	1
100	Comparative study on callus induction from different explants of <i>T. lutarioriparia</i> L.Liu and chemical imaging of vesicular structure by confocal microscopy. , 2011, , .		0
101	Dynamics of starch synthesis enzymes and their relationship with chalkiness of early indica rice under different postanthesis temperature regimes. <i>Bangladesh Journal of Agricultural Research</i> , 2019, 44, 223-238.	0.1	0
102	Comparative transcriptome analysis reveals the mechanism of exogenous substances inhibiting fertility alteration induced by low temperature in TGMS rice line. <i>Plant Growth Regulation</i> , 2020, 90, 489-503.	3.4	0
103	A high-throughput method for profiling fatty acids in plant seeds based on one-step acid-catalyzed methylation followed by gas chromatography-mass spectrometry. <i>Biotechnology and Biotechnological Equipment</i> , 2021, 35, 1076-1085.	1.3	0