

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	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
2	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
3	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
4	Magnetic Ti3C2 MXene functionalized with β -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
5	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
6	Exploiting heterosis and combining ability in two-line hybrid rice. <i>Acta Agriculturae Slovenica</i> , 2021, 117, 1.	0.3	2
7	Gibberellin Increases the Bud Yield and Theanine Accumulation in <i>Camellia sinensis</i> (L.) Kuntze. <i>Molecules</i> , 2021, 26, 3290.	3.8	11
8	Optimizing Adsorption of 17 β -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
9	Dynamic formation and transcriptional regulation mediated by phytohormones during chalkiness formation in rice. <i>BMC Plant Biology</i> , 2021, 21, 308.	3.6	10
10	The URL1-ROC5-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
11	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
12	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
13	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
14	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
15	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
16	The H3K27me3 Demethylase <i>RELATIVE OF EARLY FLOWERING6</i> Suppresses Seed Dormancy by Inducing Absciscic Acid Catabolism. <i>Plant Physiology</i> , 2020, 184, 1969-1978.	4.8	33
17	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
18	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

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19	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
20	Pennisetum sinense: A Potential Phytoremediation Plant for Chromium Deletion from Soil. <i>Sustainability</i> , 2020, 12, 3651.	3.2	13
21	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
22	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
23	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
24	A recessive high-density pod mutant resource of <i>Brassica napus</i> . <i>Plant Science</i> , 2020, 293, 110411.	3.6	8
25	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
26	The Copy Number Variation of OsMTD1 Regulates Rice Plant Architecture. <i>Frontiers in Plant Science</i> , 2020, 11, 620282.	3.6	5
27	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
28	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
29	Transforming compound leaf patterning by manipulating REVOLUTA in <i>Medicago truncatula</i> . <i>Plant Journal</i> , 2019, 100, 562-571.	5.7	20
30	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
31	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
32	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
33	A GmSIN1/GmNCED3s/GmRbohBs Feed-Forward Loop Acts as a Signal Amplifier That Regulates Root Growth in Soybean Exposed to Salt Stress. <i>Plant Cell</i> , 2019, 31, 2107-2130.	6.6	87
34	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
35	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
36	Injury Activates Ca ²⁺ /Calmodulin-Dependent Phosphorylation of JAV1-JAZ8-WRKY51 Complex for Jasmonate Biosynthesis. <i>Molecular Cell</i> , 2018, 70, 136-149.e7.	9.7	191

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37	AUXIN RESPONSE FACTOR3 Regulates Floral Meristem Determinacy by Repressing Cytokinin Biosynthesis and Signaling. <i>Plant Cell</i> , 2018, 30, 324-346.	6.6	89
38	Systems modelâ€¦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
39	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
40	A cupin domain is involved in Î±-amylase inhibitory activity. <i>Plant Science</i> , 2018, 277, 285-295.	3.6	10
41	Auxin Extraction and Purification Based on Recombinant Aux/IAA Proteins. <i>Biological Procedures Online</i> , 2017, 19, 1.	2.9	8
42	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
43	Dynamic Cytology and Transcriptional Regulation of Rice Lamina Joint Development. <i>Plant Physiology</i> , 2017, 174, 1728-1746.	4.8	53
44	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
45	<i><scp>APETALA</scp>2</i> antagonizes the transcriptional activity of <i><scp>AGAMOUS</scp></i> in regulating floral stem cells in <i>Arabidopsis thaliana</i>. <i>New Phytologist</i> , 2017, 215, 1197-1209.	7.3	53
46	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
47	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
48	Arabidopsis MYB24 Regulates Jasmonate-Mediated Stamen Development. <i>Frontiers in Plant Science</i> , 2017, 8, 1525.	3.6	59
49	Phytohormonal quantification based on biological principles. , 2017, , 431-470.		31
50	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
51	<i>YUCCA</i>-mediated auxin biogenesis is required for cell fate transition occurring during<i>de novo</i> root organogenesis in Arabidopsis. <i>Journal of Experimental Botany</i> , 2016, 67, 4273-4284.	4.8	156
52	POWERDRESS and HDA9 interact and promote histone H3 deacetylation at specific genomic sites in <i>Arabidopsis</i>. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14858-14863.	7.1	111
53	<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
54	Endogenous Bioactive Jasmonate Is Composed of a Set of (+)-7- <i>iso</i> -<i>JA</i>-Amino Acid Conjugates. <i>Plant Physiology</i> , 2016, 172, 2154-2164.	4.8	73

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55	A putative pyruvate transporter TaBASS2 positively regulates salinity tolerance in wheat via modulation of ABI4 expression. BMC Plant Biology, 2016, 16, 109.	3.6	34
56	Microarray-based gene expression analysis of strong seed dormancy in rice cv. N22 and less dormant mutant derivatives. Plant Physiology and Biochemistry, 2016, 99, 27-38.	5.8	14
57	Recent advances in electrochemical sensing of phytohormones. Scientia Sinica Chimica, 2016, 46, 759-767.	0.4	1
58	<i>PAY1</i> improves plant architecture and enhances grain yield in rice. Plant Journal, 2015, 83, 528-536.	5.7	87
59	The alteration in the architecture of a <i>Tâ€œDNA</i> insertion rice mutant <i>osmtd1</i> is caused by up-regulation of <i>MicroRNA156f</i> . Journal of Integrative Plant Biology, 2015, 57, 819-829.	8.5	26
60	Reduced grain chalkiness and its possible physiological mechanism in transgenic rice overexpressing l-GalLDH. Crop Journal, 2015, 3, 125-134.	5.2	8
61	Comparative proteomics analysis reveals the mechanism of fertility alternation of thermosensitive genic male sterile rice lines under low temperature inducement. Proteomics, 2015, 15, 1884-1905.	2.2	20
62	A KNOTTED1-LIKE HOMEODOMAIN PROTEIN REGULATES ABSCISSION IN TOMATO BY MODULATING THE AUXIN PATHWAY. Plant Physiology, 2015, 167, 844-853.	4.8	66
63	Comparative proteomic analysis of seedling leaves of cold-tolerant and -sensitive spring soybean cultivars. Molecular Biology Reports, 2015, 42, 581-601.	2.3	47
64	<i>LABA1</i> , a Domestication Gene Associated with Long, Barbed Awns in Wild Rice. Plant Cell, 2015, 27, 1875-1888.	6.6	178
65	A Wheat Allene Oxide Cyclase Gene Enhances Salinity Tolerance via Jasmonate Signaling. Plant Physiology, 2014, 164, 1068-1076.	4.8	198
66	Regulation of Drought Tolerance by the F-Box Protein MAX2 in Arabidopsis. Plant Physiology, 2014, 164, 424-439.	4.8	254
67	Piezoelectric immunosensor with gold nanoparticles enhanced competitive immunoreaction technique for 2,4-dichlorophenoxyacetic acid quantification. Sensors and Actuators B: Chemical, 2014, 193, 568-573.	7.8	22
68	Perturbation of Auxin Homeostasis Caused by Mitochondrial FtSH4 Gene-Mediated Peroxidase Accumulation Regulates Arabidopsis Architecture. Molecular Plant, 2014, 7, 856-873.	8.3	65
69	Plastid casein kinase 2 knockout reduces abscisic acid (ABA) sensitivity, thermotolerance, and expression of ABA- and heat-stress-responsive nuclear genes. Journal of Experimental Botany, 2014, 65, 4159-4175.	4.8	72
70	DNA Topoisomerase I Affects Polycomb Group Protein-Mediated Epigenetic Regulation and Plant Development by Altering Nucleosome Distribution in <i>Arabidopsis</i> . Plant Cell, 2014, 26, 2803-2817.	6.6	38
71	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. Journal of Chromatography A, 2014, 1359, 131-139.	3.7	11
72	Comparative proteomic analysis reveals molecular mechanism of seedling roots of different salt tolerant soybean genotypes in responses to salinity stress. EuPA Open Proteomics, 2014, 4, 40-57.	2.5	27

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73	Principles and Practice of ABA Analysis. , 2014, , 431-446.		3
74	Effect of temperature on chalkiness and related physiological and biochemical characteristics of early<i>indica</i>rice during grain filling. Research on Crops, 2014, 15, 313.	0.1	2
75	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
76	Effects of indole-3-acetic acid and auxin transport inhibitor on auxin distribution and development of peanut at pegging stage. Scientia Horticulturae, 2013, 162, 76-81.	3.6	13
77	Wheat Oxophytodienoate Reductase Gene<i>TaOPR1</i>Confers Salinity Tolerance via Enhancement of Absciscic Acid Signaling and Reactive Oxygen Species Scavenging Å Å. Plant Physiology, 2013, 161, 1217-1228.	4.8	146
78	Tiller number is altered in the ascorbic acid-deficient rice suppressed for l-galactono-1,4-lactone dehydrogenase. Journal of Plant Physiology, 2013, 170, 389-396.	3.5	17
79	POWERDRESS and Diversified Expression of the MIR172 Gene Family Bolster the Floral Stem Cell Network. PLoS Genetics, 2013, 9, e1003218.	3.5	85
80	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
81	<i>SKP1</i> is involved in abscisic acid signalling to regulate seed germination, stomatal opening and root growth in <i>Arabidopsis thaliana</i>. Plant, Cell and Environment, 2012, 35, 952-965.	5.7	50
82	Nitrate, abscisic acid and gibberellin interactions on the thermoinhibition of lettuce seed germination. Plant Growth Regulation, 2012, 66, 191-202.	3.4	28
83	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
84	Study on the Relationship Between the Toxin of Phytophthora infestans (Mont.) de Bary and Resistance of Potato. Agricultural Sciences in China, 2011, 10, 238-245.	0.6	3
85	Characteristics of the Mesophyllous Cells in the Sheaths of Rice (Oryza sativa L.). Agricultural Sciences in China, 2011, 10, 1354-1364.	0.6	5
86	Pressurized liquid extraction of ginger (Zingiber officinale Roscoe) with bioethanol: An efficient and sustainable approach. Journal of Chromatography A, 2011, 1218, 5765-5773.	3.7	72
87	Comparative study on callus induction from different explants of T.lutarioriparia L.Liu and chemical imaging of vesicular structure by confocal microscopy. , 2011, , .		0
88	Studies on measurement system for rice chalkiness based on computer image processing. Hunan Nong Ye Da Xue Xue Bao = Journal of Hunan Agricultural University, 2011, 37, 469-473.	0.0	2
89	Determination of both jasmonic acid and methyl jasmonate in plant samples by liquid chromatography tandem mass spectrometry. Science Bulletin, 2010, 55, 2231-2235.	1.7	31
90	A novel impedance immunosensor based on O-phenylenediamine modified gold electrode to analyze abscisic acid. Chinese Chemical Letters, 2010, 21, 472-475.	9.0	12

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91	RFC3 regulates cell proliferation and pathogen resistance in Arabidopsis. Plant Signaling and Behavior, 2010, 5, 168-170.	2.4	31
92	The Arabidopsis AP2/ERF transcription factor RAP2.6 participates in ABA, salt and osmotic stress responses. Gene, 2010, 457, 1-12.	2.2	240
93	Foliar application of chlorocholine chloride improves leaf mineral nutrition, antioxidant enzyme activity, and tuber yield of potato (<i>Solanum tuberosum</i> L.). Scientia Horticulturae, 2010, 125, 521-523.	3.6	14
94	Negative Regulation of Systemic Acquired Resistance by Replication Factor C Subunit3 in Arabidopsis. Plant Physiology, 2009, 150, 2009-2017.	4.8	35
95	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
96	A Novel Amperometric Immunosensor for Phytohormone Absciscic Acid Based on In Situ Chemical Reductive Growth of Gold Nanoparticles on Glassy Carbon Electrode. Analytical Letters, 2009, 42, 2893-2904.	1.8	14
97	Effects of Chlorocholine Chloride on Phytohormones and Photosynthetic Characteristics in Potato (<i>Solanum tuberosum</i> L.). Journal of Plant Growth Regulation, 2009, 28, 21-27.	5.1	41
98	Chlorocholine chloride application effects on photosynthetic capacity and photoassimilates partitioning in potato (<i>Solanum tuberosum</i> L.). Scientia Horticulturae, 2009, 119, 113-116.	3.6	21
99	An impedance immunosensor for the detection of the phytohormone absciscic acid. Analytical and Bioanalytical Chemistry, 2008, 391, 2869-2874.	3.7	22
100	Arabidopsis replication factor C subunit 1 plays an important role in embryogenesis. Zhi Wu Sheng Li Yu Fen Zi Sheng Wu Xue Bao = Journal of Plant Physiology and Molecular Biology, 2007, 33, 179-87.	0.0	10
101	Amperometric immunosensor based on polypyrrole/poly(m-phenylenediamine) multilayer on glassy carbon electrode for cytokinin N6-(γ -2-isopentenyl) adenosine assay. Analytical Biochemistry, 2003, 321, 89-95.	2.4	36
102	A renewable amperometric immunosensor for phytohormone γ -indole acetic acid assay. Analytica Chimica Acta, 2003, 494, 177-185.	5.4	32
103	A Novel Piezoelectric Biosensor for the Detection of Phytohormone β -Indole Acetic Acid.. Analytical Sciences, 2002, 18, 403-407.	1.6	20