

# Hong-Wei Xue

## List of Publications by Year in descending order

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90  
papers

6,824  
citations

57758

44  
h-index

76900

74  
g-index

93  
all docs

93  
docs citations

93  
times ranked

9823  
citing authors

#	ARTICLE	IF	CITATIONS
1	Arabidopsis AUTOPHAGY-RELATED3 (ATG3) facilitates the liquid-liquid phase separation of ATG8e to promote autophagy. <i>Science Bulletin</i> , 2022, 67, 350-354.	9.0	11
2	Interaction of brassinosteroid and cytokinin promotes ovule initiation and increases seed number per silique in <i>Arabidopsis</i> . <i>Journal of Integrative Plant Biology</i> , 2022, 64, 702-716.	8.5	21
3	Resequencing and genome-wide association studies of autotetraploid potato. <i>Molecular Horticulture</i> , 2022, 2, .	5.8	11
4	PIN3 positively regulates the late initiation of ovule primordia in <i>Arabidopsis thaliana</i> . <i>PLoS Genetics</i> , 2022, 18, e1010077.	3.5	10
5	Phosphatidic acid suppresses autophagy through competitive inhibition by binding GAPC (glyceraldehyde-3-phosphate dehydrogenase) and PGK (phosphoglycerate kinase) proteins. <i>Autophagy</i> , 2022, 18, 2656-2670.	9.1	15
6	The transcription factor OsGATA6 regulates rice heading date and grain number per panicle. <i>Journal of Experimental Botany</i> , 2022, 73, 6133-6149.	4.8	7
7	mRNA surveillance complex PELOTA-HBS1 regulates phosphoinositide-dependent protein kinase1 and plant growth. <i>Plant Physiology</i> , 2021, 186, 2003-2020.	4.8	7
8	Rice SPL12 coevolved with GW5 to determine grain shape. <i>Science Bulletin</i> , 2021, 66, 2353-2357.	9.0	17
9	Leaf direction: Lamina joint development and environmental responses. <i>Plant, Cell and Environment</i> , 2021, 44, 2441-2454.	5.7	17
10	Horticulture in a molecular age. <i>Molecular Horticulture</i> , 2021, 1, .	5.8	3
11	Plant casein kinases phosphorylate and destabilize a cyclin-dependent kinase inhibitor to promote cell division. <i>Plant Physiology</i> , 2021, 187, 917-930.	4.8	10
12	A secretory phospholipase D hydrolyzes phosphatidylcholine to suppress rice heading time. <i>PLoS Genetics</i> , 2021, 17, e1009905.	3.5	12
13	The rice PLATZ protein SHORT GRAIN6 determines grain size by regulating spikelet hull cell division. <i>Journal of Integrative Plant Biology</i> , 2020, 62, 847-864.	8.5	43
14	Pyrophosphate-fructose 6-phosphate phosphotransferase (PFP1) regulates starch biosynthesis and seed development via heterotetramer formation in rice ( <i>Oryza sativa</i> L.). <i>Plant Biotechnology Journal</i> , 2020, 18, 83-95.	8.3	38
15	Rice microtubule-associated protein IQ67-DOMAIN14 regulates grain shape by modulating microtubule cytoskeleton dynamics. <i>Plant Biotechnology Journal</i> , 2020, 18, 1141-1152.	8.3	43
16	Two tonoplast proton pumps function in <i>Arabidopsis</i> embryo development. <i>New Phytologist</i> , 2020, 225, 1606-1617.	7.3	14
17	Phospholipase D-derived phosphatidic acid promotes root hair development under phosphorus deficiency by suppressing vacuolar degradation of PIN-FORMED2. <i>New Phytologist</i> , 2020, 226, 142-155.	7.3	43
18	PI4K <sup>32</sup> Interacts with E3 Ligase MIEL1 to Regulate Auxin Metabolism and Root Development. <i>Plant Physiology</i> , 2020, 184, 933-944.	4.8	7

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19	The lipid code-dependent phosphoswitch PDK1 $\alpha$ D6PK activates PIN-mediated auxin efflux in Arabidopsis. <i>Nature Plants</i> , 2020, 6, 556-569.	9.3	39
20	Deficiency of mitochondrial outer membrane protein 64 confers rice resistance to both piercing $\alpha$ sucking and chewing insects in rice. <i>Journal of Integrative Plant Biology</i> , 2020, 62, 1967-1982.	8.5	6
21	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
22	Rice miR394 suppresses leaf inclination through targeting an F $\alpha$ box gene, <i>LEAF INCLINATION 4</i> . <i>Journal of Integrative Plant Biology</i> , 2019, 61, 406-416.	8.5	33
23	Effective Modulating Brassinosteroids Signal to Study Their Specific Regulation of Reproductive Development and Enhance Yield. <i>Frontiers in Plant Science</i> , 2019, 10, 980.	3.6	11
24	The Rho-family GTPase <i>OsRac1</i> controls rice grain size and yield by regulating cell division. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16121-16126.	7.1	39
25	The ubiquitin $\alpha$ proteasome system in plant responses to environments. <i>Plant, Cell and Environment</i> , 2019, 42, 2931-2944.	5.7	147
26	miR1432 $\alpha$ <i>Os</i> <i>ACOT</i> (Acyl $\alpha$ CoA thioesterase) module determines grain yield via enhancing grain filling rate in rice. <i>Plant Biotechnology Journal</i> , 2019, 17, 712-723.	8.3	68
27	Phosphatidic acid plays key roles regulating plant development and stress responses. <i>Journal of Integrative Plant Biology</i> , 2018, 60, 851-863.	8.5	100
28	<i>Os</i> <i>GATA</i> 7 modulates brassinosteroids $\alpha$ mediated growth regulation and influences architecture and grain shape. <i>Plant Biotechnology Journal</i> , 2018, 16, 1261-1264.	8.3	26
29	EL1-like Casein Kinases Suppress ABA Signaling and Responses by Phosphorylating and Destabilizing the ABA Receptors PYR/PYLs in Arabidopsis. <i>Molecular Plant</i> , 2018, 11, 706-719.	8.3	72
30	A Novel QTL qTGW3 Encodes the GSK3/SHAGGY-Like Kinase OsGSK5/OsSK41 that Interacts with OsARF4 to Negatively Regulate Grain Size and Weight in Rice. <i>Molecular Plant</i> , 2018, 11, 736-749.	8.3	201
31	SPOC domain-containing protein Leaf inclination3 interacts with LIP1 to regulate rice leaf inclination through auxin signaling. <i>PLoS Genetics</i> , 2018, 14, e1007829.	3.5	33
32	Receptor-like protein ELT1 promotes brassinosteroid signaling through interacting with and suppressing the endocytosis-mediated degradation of receptor BRI1. <i>Cell Research</i> , 2017, 27, 1182-1185.	12.0	20
33	Dynamic Cytology and Transcriptional Regulation of Rice Lamina Joint Development. <i>Plant Physiology</i> , 2017, 174, 1728-1746.	4.8	53
34	Arabidopsis Type II Phosphatidylinositol 4-Kinase PI4K $\beta$ 5 Regulates Auxin Biosynthesis and Leaf Margin Development through Interacting with Membrane-Bound Transcription Factor ANAC078. <i>PLoS Genetics</i> , 2016, 12, e1006252.	3.5	35
35	Lipidomic profiling analysis reveals the dynamics of phospholipid molecules in <i>Arabidopsis thaliana</i> seedling growth. <i>Journal of Integrative Plant Biology</i> , 2016, 58, 890-902.	8.5	27
36	Arabidopsis PROTEASOME REGULATOR1 is required for auxin-mediated suppression of proteasome activity and regulates auxin signalling. <i>Nature Communications</i> , 2016, 7, 11388.	12.8	1,027

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37	Functional characterization of GmBZL2 (AtBZR1 like gene) reveals the conserved BR signaling regulation in Glycine max. <i>Scientific Reports</i> , 2016, 6, 31134.	3.3	35
38	Ins(1,4,5)P <sub>3</sub> Suppresses Protein Degradation in Plant Vacuoles by Regulating SNX-Mediated Protein Sorting. <i>Molecular Plant</i> , 2016, 9, 1440-1443.	8.3	7
39	Rice aleurone layer specific OsNF-YB1 regulates grain filling and endosperm development by interacting with an ERF transcription factor. <i>Journal of Experimental Botany</i> , 2016, 67, 6399-6411.	4.8	94
40	Global Analysis Reveals the Crucial Roles of DNA Methylation during Rice Seed Development. <i>Plant Physiology</i> , 2015, 168, 1417-1432.	4.8	112
41	CRISPR Primer Designer: Design primers for knockout and chromosome imaging CRISPR-Cas system. <i>Journal of Integrative Plant Biology</i> , 2015, 57, 613-617.	8.5	33
42	Cis -12-Oxo-Phytodienoic Acid Stimulates Rice Defense Response to a Piercing-Sucking Insect. <i>Molecular Plant</i> , 2014, 7, 1683-1692.	8.3	61
43	Casein Kinase 1 Regulates Ethylene Synthesis by Phosphorylating and Promoting the Turnover of ACS5. <i>Cell Reports</i> , 2014, 9, 1692-1702.	6.4	49
44	Phosphatidic Acid Regulates BZR1 Activity and Brassinosteroid Signal of Arabidopsis. <i>Molecular Plant</i> , 2014, 7, 445-447.	8.3	18
45	Functional genomics based understanding of rice endosperm development. <i>Current Opinion in Plant Biology</i> , 2013, 16, 236-246.	7.1	74
46	Phosphatidic Acid (PA) Binds PP2AA1 to Regulate PP2A Activity and PIN1 Polar Localization. <i>Molecular Plant</i> , 2013, 6, 1692-1702.	8.3	74
47	Brassinosteroids Regulate the Differential Growth of Arabidopsis Hypocotyls through Auxin Signaling Components IAA19 and ARF7. <i>Molecular Plant</i> , 2013, 6, 887-904.	8.3	63
48	Studies on the Rice LEAF INCLINATION1 (LC1), an IAA-amido Synthetase, Reveal the Effects of Auxin in Leaf Inclination Control. <i>Molecular Plant</i> , 2013, 6, 174-187.	8.3	96
49	Arabidopsis Casein Kinase1 Proteins CK1.3 and CK1.4 Phosphorylate Cryptochrome2 to Regulate Blue Light Signaling. <i>Plant Cell</i> , 2013, 25, 2618-2632.	6.6	58
50	<i>OsLEC1/OsHAP3E</i> Participates in the Determination of Meristem Identity in Both Vegetative and Reproductive Developments of Rice. <i>Journal of Integrative Plant Biology</i> , 2013, 55, 232-249.	8.5	38
51	The <i>MADS29</i> Transcription Factor Regulates the Degradation of the Nucellus and the Nucellar Projection during Rice Seed Development. <i>Plant Cell</i> , 2012, 24, 1049-1065.	6.6	149
52	Inositol polyphosphate 5-phosphatase-controlled Ins(1,4,5)P <sub>3</sub> /Ca <sup>2+</sup> is crucial for maintaining pollen dormancy and regulating early germination of pollen. <i>Development (Cambridge)</i> , 2012, 139, 2221-2233.	2.5	27
53	The <i>Arabidopsis</i> ARCP Protein, CSI1, Which Is Required for Microtubule Stability, Is Necessary for Root and Anther Development. <i>Plant Cell</i> , 2012, 24, 1066-1080.	6.6	49
54	Genome-Wide Analysis of the Complex Transcriptional Networks of Rice Developing Seeds. <i>PLoS ONE</i> , 2012, 7, e31081.	2.5	78

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55	Arabidopsis phosphatidylinositol monophosphate 5-kinase 2 is involved in root gravitropism through regulation of polar auxin transport by affecting the cycling of PIN proteins. <i>Cell Research</i> , 2012, 22, 581-597.	12.0	120
56	Overexpression of the phosphatidylinositol synthase gene from <i>Zea mays</i> in tobacco plants alters the membrane lipids composition and improves drought stress tolerance. <i>Planta</i> , 2012, 235, 69-84.	3.2	28
57	Inositol Trisphosphate-Induced Ca <sup>2+</sup> Signaling Modulates Auxin Transport and PIN Polarity. <i>Developmental Cell</i> , 2011, 20, 855-866.	7.0	121
58	Arabidopsis MSBP1 Is Activated by HY5 and HYH and Is Involved in Photomorphogenesis and Brassinosteroid Sensitivity Regulation. <i>Molecular Plant</i> , 2011, 4, 1092-1104.	8.3	36
59	Rice Homeobox Transcription Factor HOX1a Positively Regulates Gibberellin Responses by Directly Suppressing EL1F. <i>Journal of Integrative Plant Biology</i> , 2011, 53, 869-878.	8.5	15
60	Rice ABI5-Like1 Regulates Abscisic Acid and Auxin Responses by Affecting the Expression of ABRE-Containing Genes. <i>Plant Physiology</i> , 2011, 156, 1397-1409.	4.8	119
61	Rice early flowering1, a CKI, phosphorylates DELLA protein SLR1 to negatively regulate gibberellin signalling. <i>EMBO Journal</i> , 2010, 29, 1916-1927.	7.8	176
62	Coexpression Analysis Identifies Rice Starch Regulator1, a Rice AP2/EREBP Family Transcription Factor, as a Novel Rice Starch Biosynthesis Regulator. <i>Plant Physiology</i> , 2010, 154, 927-938.	4.8	325
63	Rice leaf inclination2, a VIN3-like protein, regulates leaf angle through modulating cell division of the collar. <i>Cell Research</i> , 2010, 20, 935-947.	12.0	149
64	Arabidopsis $\beta$ -Ketoacyl-[Acyl Carrier Protein] Synthase I Is Crucial for Fatty Acid Synthesis and Plays a Role in Chloroplast Division and Embryo Development. <i>Plant Cell</i> , 2010, 22, 3726-3744.	6.6	147
65	Genome-Wide Analysis Revealed the Complex Regulatory Network of Brassinosteroid Effects in Photomorphogenesis. <i>Molecular Plant</i> , 2009, 2, 755-772.	8.3	57
66	Function and regulation of phospholipid signalling in plants. <i>Biochemical Journal</i> , 2009, 421, 145-156.	3.7	186
67	Global Analysis of Gene Expression Profiles in <i>Brassica napus</i> Developing Seeds Reveals a Conserved Lipid Metabolism Regulation with <i>Arabidopsis thaliana</i> . <i>Molecular Plant</i> , 2009, 2, 1107-1122.	8.3	55
68	The role of Arabidopsis 5PTase13 in root gravitropism through modulation of vesicle trafficking. <i>Cell Research</i> , 2009, 19, 1191-1204.	12.0	51
69	Studies on rice seed quality through analysis of a large-scale T-DNA insertion population. <i>Cell Research</i> , 2009, 19, 380-391.	12.0	45
70	Functional conservation of the meiotic genes SDS and RCK in male meiosis in the monocot rice. <i>Cell Research</i> , 2009, 19, 768-782.	12.0	33
71	Characterization and expression profiles of miRNAs in rice seeds. <i>Nucleic Acids Research</i> , 2009, 37, 916-930.	14.5	198
72	An Inositol Polyphosphate 5-Phosphatase Functions in PHOTOTROPIN1 Signaling in <i>Arabidopsis</i> by Altering Cytosolic Ca <sup>2+</sup> . <i>Plant Cell</i> , 2008, 20, 353-366.	6.6	51

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73	Arabidopsis PLD $\hat{1}\eta$ 2 Regulates Vesicle Trafficking and Is Required for Auxin Response. <i>Plant Cell</i> , 2007, 19, 281-295.	6.6	194
74	Shanghai RAPESEED Database: a resource for functional genomics studies of seed development and fatty acid metabolism of Brassica. <i>Nucleic Acids Research</i> , 2007, 36, D1044-D1047.	14.5	19
75	PIP5K9, an Arabidopsis Phosphatidylinositol Monophosphate Kinase, Interacts with a Cytosolic Invertase to Negatively Regulate Sugar-Mediated Root Growth. <i>Plant Cell</i> , 2007, 19, 163-181.	6.6	159
76	Genome-wide analysis of the phospholipase D family in <i>Oryza sativa</i> and functional characterization of PLD $\hat{1}\eta$ 1 in seed germination. <i>Cell Research</i> , 2007, 17, 881-894.	12.0	107
77	A brassinolide-suppressed rice MADS-box transcription factor, OsMDP1, has a negative regulatory role in BR signaling. <i>Plant Journal</i> , 2006, 47, 519-531.	5.7	92
78	The Highly Charged Region of Plant $\hat{1}\eta$ 2-type Phosphatidylinositol 4-kinase is Involved in Membrane Targeting and Phospholipid Binding. <i>Plant Molecular Biology</i> , 2006, 60, 729-746.	3.9	22
79	Auxin Flow in Anther Filaments is Critical for Pollen Grain Development through Regulating Pollen Mitosis. <i>Plant Molecular Biology</i> , 2006, 61, 215-226.	3.9	93
80	New insights into the complex and coordinated transcriptional regulation networks underlying rice seed development through cDNA chip-based analysis. <i>Plant Molecular Biology</i> , 2005, 57, 785-804.	3.9	20
81	At5PTase13 Modulates Cotyledon Vein Development through Regulating Auxin Homeostasis. <i>Plant Physiology</i> , 2005, 139, 1677-1691.	4.8	50
82	Brassinosteroids Stimulate Plant Tropisms through Modulation of Polar Auxin Transport in Brassica and Arabidopsis. <i>Plant Cell</i> , 2005, 17, 2738-2753.	6.6	218
83	A Role of Arabidopsis Inositol Polyphosphate Kinase, AtIPK2 $\hat{1}\epsilon$ , in Pollen Germination and Root Growth. <i>Plant Physiology</i> , 2005, 137, 94-103.	4.8	49
84	Arabidopsis Membrane Steroid Binding Protein 1 Is Involved in Inhibition of Cell Elongation. <i>Plant Cell</i> , 2005, 17, 116-131.	6.6	118
85	Development of an efficient method for the isolation of factors involved in gene transcription during rice embryo development. <i>Plant Journal</i> , 2004, 38, 348-357.	5.7	51
86	OsPIP1, a Rice Phosphatidylinositol Monophosphate Kinase, Regulates Rice Heading by Modifying the Expression of Floral Induction Genes. <i>Plant Molecular Biology</i> , 2004, 54, 295-310.	3.9	34
87	Roles of OsCK11, a rice casein kinase I, in root development and plant hormone sensitivity. <i>Plant Journal</i> , 2003, 36, 189-202.	5.7	117
88	An Arabidopsis inositol phospholipid kinase strongly expressed in procambial cells: Synthesis of PtdIns(4,5)P2 and PtdIns(3,4,5)P3 in insect cells by 5-phosphorylation of precursors. <i>Plant Journal</i> , 2001, 26, 561-571.	5.7	59
89	Cloning of Arabidopsis thaliana phosphatidylinositol synthase and functional expression in the yeast <i>pis</i> mutant. <i>Plant Molecular Biology</i> , 2000, 42, 757-764.	3.9	28
90	A Plant 126-kDa Phosphatidylinositol 4-Kinase with a Novel Repeat Structure. <i>Journal of Biological Chemistry</i> , 1999, 274, 5738-5745.	3.4	67