

# Xian Sheng Zhang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3894052/publications.pdf>

Version: 2024-02-01

85  
papers

4,083  
citations

87888

38  
h-index

133252

59  
g-index

87  
all docs

87  
docs citations

87  
times ranked

4691  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pattern of Auxin and Cytokinin Responses for Shoot Meristem Induction Results from the Regulation of Cytokinin Biosynthesis by AUXIN RESPONSE FACTOR3. <i>Plant Physiology</i> , 2012, 161, 240-251.	4.8	218
2	DNA Methylation and Histone Modifications Regulate De Novo Shoot Regeneration in Arabidopsis by Modulating WUSCHEL Expression and Auxin Signaling. <i>PLoS Genetics</i> , 2011, 7, e1002243.	3.5	201
3	Type-B ARABIDOPSIS RESPONSE REGULATORs Specify the Shoot Stem Cell Niche by Dual Regulation of <i>WUSCHEL</i> . <i>Plant Cell</i> , 2017, 29, 1357-1372.	6.6	201
4	SHORT HYPOCOTYL UNDER BLUE1 Associates with <i>MINISEED3</i> and <i>HAIKU2</i> Promoters in Vivo to Regulate <i>Arabidopsis</i> Seed Development. <i>Plant Cell</i> , 2009, 21, 106-117.	6.6	180
5	Abscisic Acid Regulates Early Seed Development in <i>Arabidopsis</i> by ABI5-Mediated Transcription of <i>SHORT HYPOCOTYL UNDER BLUE1</i> . <i>Plant Cell</i> , 2014, 26, 1053-1068.	6.6	172
6	PHB3 Maintains Root Stem Cell Niche Identity through ROS-Responsive AP2/ERF Transcription Factors in Arabidopsis. <i>Cell Reports</i> , 2018, 22, 1350-1363.	6.4	128
7	The tae-miR408-Mediated Control of <i>TaTOC1</i> Genes Transcription Is Required for the Regulation of Heading Time in Wheat. <i>Plant Physiology</i> , 2016, 170, 1578-1594.	4.8	113
8	<i>Arabidopsis</i> COBRA-LIKE 10, a GPI-anchored protein, mediates directional growth of pollen tubes. <i>Plant Journal</i> , 2013, 74, 486-497.	5.7	105
9	Establishment of embryonic shoot-root axis is involved in auxin and cytokinin response during <i>Arabidopsis</i> somatic embryogenesis. <i>Frontiers in Plant Science</i> , 2014, 5, 792.	3.6	104
10	The wheat TaGI1, involved in photoperiodic flowering, encodes an Arabidopsis GI ortholog. <i>Plant Molecular Biology</i> , 2005, 58, 53-64.	3.9	97
11	Induction of Somatic Embryos in Arabidopsis Requires Local YUCCA Expression Mediated by the Down-Regulation of Ethylene Biosynthesis. <i>Molecular Plant</i> , 2013, 6, 1247-1260.	8.3	97
12	Wheat Ms2 encodes for an orphan protein that confers male sterility in grass species. <i>Nature Communications</i> , 2017, 8, 15121.	12.8	97
13	Integrative genome-wide analysis reveals HLP1, a novel RNA-binding protein, regulates plant flowering by targeting alternative polyadenylation. <i>Cell Research</i> , 2015, 25, 864-876.	12.0	94
14	Synergistic action of auxin and cytokinin mediates aluminum-induced root growth inhibition in <i>Arabidopsis</i> . <i>EMBO Reports</i> , 2017, 18, 1213-1230.	4.5	80
15	Plant stem cells and <i>de novo</i> organogenesis. <i>New Phytologist</i> , 2018, 218, 1334-1339.	7.3	78
16	Integration of pluripotency pathways regulates stem cell maintenance in the <i>Arabidopsis</i> shoot meristem. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 22561-22571.	7.1	78
17	The Hormonal Control of Regeneration in Plants. <i>Current Topics in Developmental Biology</i> , 2014, 108, 35-69.	2.2	70
18	The Arabidopsis KIN1 Subunit of the SnRK1 Complex Regulates Pollen Hydration on the Stigma by Mediating the Level of Reactive Oxygen Species in Pollen. <i>PLoS Genetics</i> , 2016, 12, e1006228.	3.5	65

#	ARTICLE	IF	CITATIONS
19	<i>TaD27</i> gene controls the tiller number in hexaploid wheat. <i>Plant Biotechnology Journal</i> , 2020, 18, 513-525.	8.3	64
20	<i>FUSCA3</i> interacting with <i>LEAFY COTYLEDON2</i> controls lateral root formation through regulating <i>YUCCA4</i> gene expression in <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2017, 213, 1740-1754.	7.3	63
21	FERONIA receptor kinase-regulated reactive oxygen species mediate self-incompatibility in <i>Brassica rapa</i> . <i>Current Biology</i> , 2021, 31, 3004-3016.e4.	3.9	63
22	Plant cell totipotency: Insights into cellular reprogramming. <i>Journal of Integrative Plant Biology</i> , 2021, 63, 228-243.	8.5	61
23	Overexpression of <i>TaMADS1</i> , a <i>SEPALLATA</i> -like gene in wheat, causes early flowering and the abnormal development of floral organs in <i>Arabidopsis</i> . <i>Planta</i> , 2006, 223, 698-707.	3.2	60
24	<i>Arabidopsis AtVPS15</i> is essential for pollen development and germination through modulating phosphatidylinositol 3-phosphate formation. <i>Plant Molecular Biology</i> , 2011, 77, 251-260.	3.9	57
25	MPK14-mediated auxin signaling controls lateral root development via ERF13-regulated very-long-chain fatty acid biosynthesis. <i>Molecular Plant</i> , 2021, 14, 285-297.	8.3	57
26	The microRNA167 controls somatic embryogenesis in <i>Arabidopsis</i> through regulating its target genes <i>ARF6</i> and <i>ARF8</i> . <i>Plant Cell, Tissue and Organ Culture</i> , 2016, 124, 405-417.	2.3	54
27	Abscisic acid is required for somatic embryo initiation through mediating spatial auxin response in <i>Arabidopsis</i> . <i>Plant Growth Regulation</i> , 2013, 69, 167-176.	3.4	52
28	Analysis of N6-methyladenosine reveals a new important mechanism regulating the salt tolerance of sweet sorghum. <i>Plant Science</i> , 2021, 304, 110801.	3.6	52
29	ABNORMAL POLLEN TUBE GUIDANCE1, an Endoplasmic Reticulum-Localized Mannosyltransferase Homolog of <i>GLYCOSYLPHOSPHATIDYLINOSITOL10</i> in Yeast and <i>PHOSPHATIDYLINOSITOL GLYCAN ANCHOR BIOSYNTHESIS B</i> in Human, Is Required for <i>Arabidopsis</i> Pollen Tube Micropylar Guidance and Embryo Development. <i>Plant Physiology</i> , 2014, 165, 1544-1556.	4.8	51
30	Two-stage cyclic enzymatic amplification method for ultrasensitive electrochemical assay of microRNA-21 in the blood serum of gastric cancer patients. <i>Biosensors and Bioelectronics</i> , 2016, 79, 307-312.	10.1	51
31	Electrochemical biosensor for microRNA detection based on poly(U) polymerase mediated isothermal signal amplification. <i>Biosensors and Bioelectronics</i> , 2016, 79, 79-85.	10.1	51
32	ROS in the Male-Female Interactions During Pollination: Function and Regulation. <i>Frontiers in Plant Science</i> , 2020, 11, 177.	3.6	51
33	Transcriptional Analyses of Natural Leaf Senescence in Maize. <i>PLoS ONE</i> , 2014, 9, e115617.	2.5	51
34	<i>DNA METHYLTRANSFERASE1</i> -mediated shoot regeneration is regulated by cytokinin-induced cell cycle in <i>Arabidopsis</i> . <i>New Phytologist</i> , 2018, 217, 219-232.	7.3	47
35	Thioredoxin-Mediated ROS Homeostasis Explains Natural Variation in Plant Regeneration. <i>Plant Physiology</i> , 2018, 176, 2231-2250.	4.8	46
36	Local Auxin Biosynthesis Mediates Plant Growth and Development. <i>Trends in Plant Science</i> , 2019, 24, 6-9.	8.8	46

#	ARTICLE	IF	CITATIONS
37	Comparative Transcriptome Analysis Reveals New lncRNAs Responding to Salt Stress in Sweet Sorghum. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 331.	4.1	46
38	Architecture of Wheat Inflorescence: Insights from Rice. <i>Trends in Plant Science</i> , 2019, 24, 802-809.	8.8	40
39	Genome-wide identification and analysis of heterotic loci in three maize hybrids. <i>Plant Biotechnology Journal</i> , 2020, 18, 185-194.	8.3	39
40	Isolation of HAG1 and its regulation by plant hormones during in vitro floral organogenesis in <i>Hyacinthus orientalis</i> L.. <i>Planta</i> , 2002, 215, 533-540.	3.2	38
41	DEK43 is a P-type pentatricopeptide repeat (PPR) protein responsible for the cis-splicing of nad4 in maize mitochondria. <i>Journal of Integrative Plant Biology</i> , 2020, 62, 299-313.	8.5	37
42	AtPRMT5 Regulates Shoot Regeneration through Mediating Histone H4R3 Dimethylation on KRPs and Pre-mRNA Splicing of RKP in Arabidopsis. <i>Molecular Plant</i> , 2016, 9, 1634-1646.	8.3	33
43	Pentatricopeptide repeat protein DEK40 is required for mitochondrial function and kernel development in maize. <i>Journal of Experimental Botany</i> , 2019, 70, 6163-6179.	4.8	32
44	TaMYB86B encodes a R2R3-type MYB transcription factor and enhances salt tolerance in wheat. <i>Plant Science</i> , 2020, 300, 110624.	3.6	32
45	Distribution of Phenolic Acids and Antioxidant Activities of Different Bran Fractions from Three Pigmented Wheat Varieties. <i>Journal of Chemistry</i> , 2018, 2018, 1-9.	1.9	31
46	The Arabidopsis MATERNAL EFFECT EMBRYO ARREST45 protein modulates maternal auxin biosynthesis and controls seed size by inducing AINTEGUMENTA. <i>Plant Cell</i> , 2021, 33, 1907-1926.	6.6	31
47	Functional Implications of Active N6-Methyladenosine in Plants. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 291.	3.7	30
48	Genome-wide identification and expression analysis of YTH domain-containing RNA-binding protein family in common wheat. <i>BMC Plant Biology</i> , 2020, 20, 351.	3.6	29
49	Genetic, hormonal, and environmental control of tillering in wheat. <i>Crop Journal</i> , 2021, 9, 986-991.	5.2	27
50	ZmTE1 promotes plant height by regulating intercalary meristem formation and internode cell elongation in maize. <i>Plant Biotechnology Journal</i> , 2022, 20, 526-537.	8.3	27
51	iPSCs: A Comparison between Animals and Plants. <i>Trends in Plant Science</i> , 2018, 23, 660-666.	8.8	26
52	Phylogenomics of the genus <i>Glycine</i> sheds light on polyploid evolution and life-strategy transition. <i>Nature Plants</i> , 2022, 8, 233-244.	9.3	26
53	The reference genome of <i>Miscanthus floridulus</i> illuminates the evolution of Saccharinae. <i>Nature Plants</i> , 2021, 7, 608-618.	9.3	23
54	Genome-Wide Analysis and Expression Patterns of the YUCCA Genes in Maize. <i>Journal of Genetics and Genomics</i> , 2015, 42, 707-710.	3.9	22

#	ARTICLE	IF	CITATIONS
55	Type-B ARRs Control Carpel Regeneration Through Mediating AGAMOUS Expression in Arabidopsis. <i>Plant and Cell Physiology</i> , 2018, 59, 761-769.	3.1	21
56	Wheat D-type cyclin Triae;CYCD2;1 regulate development of transgenic Arabidopsis plants. <i>Planta</i> , 2006, 224, 1129-1140.	3.2	20
57	Rice OsAS2 Gene, a Member of LOB Domain Family, Functions in the Regulation of Shoot Differentiation and Leaf Development. <i>Journal of Plant Biology</i> , 2009, 52, 374-381.	2.1	20
58	Transcript profiles of maize embryo sacs and preliminary identification of genes involved in the embryo sac-pollen tube interaction. <i>Frontiers in Plant Science</i> , 2014, 5, 702.	3.6	20
59	Genome-wide analysis of SSR and ILP markers in trees: diversity profiling, alternate distribution, and applications in duplication. <i>Scientific Reports</i> , 2017, 7, 17902.	3.3	20
60	Differences in capacities of in vitro organ regeneration between two Arabidopsis ecotypes Wassilewskija and Columbia. <i>Plant Cell, Tissue and Organ Culture</i> , 2013, 112, 65-74.	2.3	19
61	Comparative Transcriptome Analysis Revealing the Effect of Light on Anthocyanin Biosynthesis in Purple Grains of Wheat. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 3465-3476.	5.2	19
62	Genome assembly of the Chinese maize elite inbred line RP125 and its EMS mutant collection provide new resources for maize genetics research and crop improvement. <i>Plant Journal</i> , 2021, 108, 40-54.	5.7	18
63	Down-expression of TaPIN1s Increases the Tiller Number and Grain Yield in Wheat. <i>BMC Plant Biology</i> , 2021, 21, 443.	3.6	18
64	Endogenous auxin biosynthesis and de novo root organogenesis. <i>Journal of Experimental Botany</i> , 2016, 67, 4011-4013.	4.8	17
65	Unfolded protein response activation compensates endoplasmic reticulum-associated degradation deficiency in <i>Arabidopsis</i> . <i>Journal of Integrative Plant Biology</i> , 2017, 59, 506-521.	8.5	17
66	The novel E-subgroup pentatricopeptide repeat protein DEK55 is responsible for RNA editing at multiple sites and for the splicing of nad1 and nad4 in maize. <i>BMC Plant Biology</i> , 2020, 20, 553.	3.6	17
67	ARF4 regulates shoot regeneration through coordination with ARF5 and IAA12. <i>Plant Cell Reports</i> , 2021, 40, 315-325.	5.6	17
68	Microfilament Depolymerization Is a Pre-requisite for Stem Cell Formation During In vitro Shoot Regeneration in Arabidopsis. <i>Frontiers in Plant Science</i> , 2017, 8, 158.	3.6	14
69	Stigma factors regulating self-compatible pollination. <i>Frontiers in Biology</i> , 2010, 5, 156-163.	0.7	13
70	Regulation of cell reprogramming by auxin during somatic embryogenesis. <i>ABIOTECH</i> , 2020, 1, 185-193.	3.9	13
71	Initiation and maintenance of plant stem cells in root and shoot apical meristems. <i>ABIOTECH</i> , 2020, 1, 194-204.	3.9	11
72	A nitrate transporter encoded by ZmNPF7.9 is essential for maize seed development. <i>Plant Science</i> , 2021, 308, 110901.	3.6	10

#	ARTICLE	IF	CITATIONS
73	Interaction between RNA helicase ROOT INITIATION DEFECTIVE 1 and GAMETOPHYTIC FACTOR 1 is involved in female gametophyte development in Arabidopsis. <i>Journal of Experimental Botany</i> , 2016, 67, 5757-5768.	4.8	9
74	Overexpression of ZmDWF4 improves major agronomic traits and enhances yield in maize. <i>Molecular Breeding</i> , 2020, 40, 1.	2.1	8
75	Knockdown expression of the B-type cyclin gene <i>Oryza;CycB1;1</i> leads to triploid rice. <i>Journal of Plant Biology</i> , 2014, 57, 43-47.	2.1	7
76	The BIG gene controls size of shoot apical meristems in <i>Arabidopsis thaliana</i> . <i>Plant Cell Reports</i> , 2020, 39, 543-552.	5.6	7
77	AGC protein kinase AGC1-4 mediates seed size in Arabidopsis. <i>Plant Cell Reports</i> , 2020, 39, 825-837.	5.6	7
78	Options for Engineering Apomixis in Plants. <i>Frontiers in Plant Science</i> , 2022, 13, 864987.	3.6	5
79	Identification of Peanut Aux/IAA Genes and Functional Prediction during Seed Development and Maturation. <i>Plants</i> , 2022, 11, 472.	3.5	4
80	Pattern analysis of stem cell differentiation during in vitro Arabidopsis organogenesis. <i>Frontiers in Biology</i> , 2010, 5, 464-470.	0.7	3
81	Molecular cloning and expression analysis of HAG1 in the floral organs of <i>Hyacinthus orientalis</i> L. <i>Science in China Series C: Life Sciences</i> , 2000, 43, 395-401.	1.3	2
82	Single-cell profiling lights different cell trajectories in plants. <i>ABIOTECH</i> , 2021, 2, 64-78.	3.9	2
83	Regulation of WOX11 Expression Represents the Difference Between Direct and Indirect Shoot Regeneration. <i>Frontiers in Plant Science</i> , 2022, 13, 850726.	3.6	1
84	Meristem Biology Flourishes Under Mt. Tai. <i>Molecular Plant</i> , 2016, 9, 1224-1227.	8.3	0
85	Characterization of the <i>ERP</i> gene family in <i>Arabidopsis thaliana</i> . <i>Plant Signaling and Behavior</i> , 2021, 16, 1913301.	2.4	0