

Xian Sheng Zhang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83

papers

2,402

citations

28

h-index

47

g-index

87

ext. papers

3,383

ext. citations

7.5

avg, IF

5.27

L-index

#	Paper	IF	Citations
83	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> , 2013 , 161, 240-51	6.6	160
82	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	6	150
81	SHORT HYPOCOTYL UNDER BLUE1 associates with MINISEED3 and HAIKU2 promoters in vivo to regulate Arabidopsis seed development. <i>Plant Cell</i> , 2009 , 21, 106-17	11.6	132
80	Type-B ARABIDOPSIS RESPONSE REGULATORS Specify the Shoot Stem Cell Niche by Dual Regulation of. <i>Plant Cell</i> , 2017 , 29, 1357-1372	11.6	129
79	Abscisic acid regulates early seed development in Arabidopsis by ABI5-mediated transcription of SHORT HYPOCOTYL UNDER BLUE1. <i>Plant Cell</i> , 2014 , 26, 1053-68	11.6	99
78	PHB3 Maintains Root Stem Cell Niche Identity through ROS-Responsive AP2/ERF Transcription Factors in Arabidopsis. <i>Cell Reports</i> , 2018 , 22, 1350-1363	10.6	83
77	The wheat TaGl1, involved in photoperiodic flowering, encodes an Arabidopsis Gl ortholog. <i>Plant Molecular Biology</i> , 2005 , 58, 53-64	4.6	80
76	Arabidopsis COBRA-LIKE 10, a GPI-anchored protein, mediates directional growth of pollen tubes. <i>Plant Journal</i> , 2013 , 74, 486-97	6.9	78
75	Establishment of embryonic shoot-root axis is involved in auxin and cytokinin response during Arabidopsis somatic embryogenesis. <i>Frontiers in Plant Science</i> , 2014 , 5, 792	6.2	74
74	The tae-miR408-Mediated Control of TaTOC1 Genes Transcription Is Required for the Regulation of Heading Time in Wheat. <i>Plant Physiology</i> , 2016 , 170, 1578-94	6.6	67
73	Induction of somatic embryos in Arabidopsis requires local YUCCA expression mediated by the down-regulation of ethylene biosynthesis. <i>Molecular Plant</i> , 2013 , 6, 1247-60	14.4	67
72	Integrative genome-wide analysis reveals HLP1, a novel RNA-binding protein, regulates plant flowering by targeting alternative polyadenylation. <i>Cell Research</i> , 2015 , 25, 864-76	24.7	61
71	Wheat Ms2 encodes for an orphan protein that confers male sterility in grass species. <i>Nature Communications</i> , 2017 , 8, 15121	17.4	59
70	Overexpression of TaMADS1, a SEPALLATA-like gene in wheat, causes early flowering and the abnormal development of floral organs in Arabidopsis. <i>Planta</i> , 2006 , 223, 698-707	4.7	53
69	The hormonal control of regeneration in plants. <i>Current Topics in Developmental Biology</i> , 2014 , 108, 35-69.	3	50
68	Synergistic action of auxin and cytokinin mediates aluminum-induced root growth inhibition in. <i>EMBO Reports</i> , 2017 , 18, 1213-1230	6.5	49
67	Arabidopsis AtVPS15 is essential for pollen development and germination through modulating phosphatidylinositol 3-phosphate formation. <i>Plant Molecular Biology</i> , 2011 , 77, 251-60	4.6	46

66	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, 307-12	11.8	45
65	Electrochemical biosensor for microRNA detection based on poly(U) polymerase mediated isothermal signal amplification. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 79-85	11.8	44
64	ABNORMAL POLLEN TUBE GUIDANCE1, an Endoplasmic Reticulum-Localized Mannosyltransferase Homolog of GLYCOSYLPHOSPHATIDYLINOSITOL10 in Yeast and PHOSPHATIDYLINOSITOL GLYCAN ANCHOR BIOSYNTHESIS B in Human, Is Required for Arabidopsis Pollen Tube Micropylar Guidance and Embryo Development. <i>Plant Physiology</i> , 2014 , 165, 1544-1556	6.6	43
63	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	6	43
62	Transcriptional analyses of natural leaf senescence in maize. <i>PLoS ONE</i> , 2014 , 9, e115617	3.7	40
61	The microRNA167 controls somatic embryogenesis in Arabidopsis through regulating its target genes ARF6 and ARF8. <i>Plant Cell, Tissue and Organ Culture</i> , 2016 , 124, 405-417	2.7	39
60	Plant stem cells and de novo organogenesis. <i>New Phytologist</i> , 2018 , 218, 1334-1339	9.8	38
59	FUSCA3 interacting with LEAFY COTYLEDON2 controls lateral root formation through regulating YUCCA4 gene expression in Arabidopsis thaliana. <i>New Phytologist</i> , 2017 , 213, 1740-1754	9.8	37
58	TaD27-B gene controls the tiller number in hexaploid wheat. <i>Plant Biotechnology Journal</i> , 2020 , 18, 513-525	5.5	37
57	Isolation of HAG1 and its regulation by plant hormones during in vitro floral organogenesis in Hyacinthus orientalis L. <i>Planta</i> , 2002 , 215, 533-40	4.7	36
56	Abscisic acid is required for somatic embryo initiation through mediating spatial auxin response in Arabidopsis. <i>Plant Growth Regulation</i> , 2013 , 69, 167-176	3.2	29
55	Thioredoxin-Mediated ROS Homeostasis Explains Natural Variation in Plant Regeneration. <i>Plant Physiology</i> , 2018 , 176, 2231-2250	6.6	25
54	DNA METHYLTRANSFERASE1-mediated shoot regeneration is regulated by cytokinin-induced cell cycle in Arabidopsis. <i>New Phytologist</i> , 2018 , 217, 219-232	9.8	23
53	Integration of pluripotency pathways regulates stem cell maintenance in the shoot meristem. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 22561-22571	11.5	22
52	Local Auxin Biosynthesis Mediates Plant Growth and Development. <i>Trends in Plant Science</i> , 2019 , 24, 6-9	13.1	22
51	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	8.3	22
50	Plant cell totipotency: Insights into cellular reprogramming. <i>Journal of Integrative Plant Biology</i> , 2021 , 63, 228-243	8.3	21
49	Genome-wide identification and analysis of heterotic loci in three maize hybrids. <i>Plant Biotechnology Journal</i> , 2020 , 18, 185-194	11.6	19

48	Comparative Transcriptome Analysis Reveals New lncRNAs Responding to Salt Stress in Sweet Sorghum. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 331	5.8	19
47	Architecture of Wheat Inflorescence: Insights from Rice. <i>Trends in Plant Science</i> , 2019 , 24, 802-809	13.1	18
46	iPSCs: A Comparison between Animals and Plants. <i>Trends in Plant Science</i> , 2018 , 23, 660-666	13.1	18
45	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	6.2	18
44	ROS in the Male-Female Interactions During Pollination: Function and Regulation. <i>Frontiers in Plant Science</i> , 2020 , 11, 177	6.2	17
43	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	2.7	17
42	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	2.3	17
41	Endogenous auxin biosynthesis and de novo root organogenesis. <i>Journal of Experimental Botany</i> , 2016 , 67, 4011-3	7	15
40	Rice OsAS2 Gene, a Member of LOB Domain Family, Functions in the Regulation of Shoot Differentiation and Leaf Development 2009 , 52, 374-381		15
39	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	14.4	13
38	Wheat D-type cyclin Triae;CYCD2;1 regulate development of transgenic Arabidopsis plants. <i>Planta</i> , 2006 , 224, 1129-40	4.7	13
37	Analysis of N-methyladenosine reveals a new important mechanism regulating the salt tolerance of sweet sorghum. <i>Plant Science</i> , 2021 , 304, 110801	5.3	13
36	FERONIA receptor kinase-regulated reactive oxygen species mediate self-incompatibility in Brassica rapa. <i>Current Biology</i> , 2021 , 31, 3004-3016.e4	6.3	13
35	Functional Implications of Active N-Methyladenosine in Plants. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 291	5.7	12
34	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	5.7	12
33	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	4.9	12
32	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	5.3	12
31	Unfolded protein response activation compensates endoplasmic reticulum-associated degradation deficiency in Arabidopsis. <i>Journal of Integrative Plant Biology</i> , 2017 , 59, 506-521	8.3	11

30	Genome-Wide Analysis and Expression Patterns of the YUCCA Genes in Maize. <i>Journal of Genetics and Genomics</i> , 2015 , 42, 707-10	4	11
29	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	14.4	11
28	Pentatricopeptide repeat protein DEK40 is required for mitochondrial function and kernel development in maize. <i>Journal of Experimental Botany</i> , 2019 , 70, 6163-6179	7	9
27	Stigma factors regulating self-compatible pollination. <i>Frontiers in Biology</i> , 2010 , 5, 156-163		9
26	TaMYB86B encodes a R2R3-type MYB transcription factor and enhances salt tolerance in wheat. <i>Plant Science</i> , 2020 , 300, 110624	5.3	8
25	Knockdown expression of the B-type cyclin gene <i>Oryza;CycB1;1</i> leads to triploid rice 2014 , 57, 43-47		7
24	Microfilament Depolymerization Is a Pre-requisite for Stem Cell Formation During Shoot Regeneration in. <i>Frontiers in Plant Science</i> , 2017 , 8, 158	6.2	6
23	Type-B ARRs Control Carpel Regeneration Through Mediating AGAMOUS Expression in Arabidopsis. <i>Plant and Cell Physiology</i> , 2018 , 59, 756-764	4.9	5
22	The reference genome of <i>Miscanthus floridulus</i> illuminates the evolution of Saccharinae. <i>Nature Plants</i> , 2021 , 7, 608-618	11.5	5
21	Initiation and maintenance of plant stem cells in root and shoot apical meristems. <i>ABIOTECH</i> , 2020 , 1, 194-204	3.9	4
20	Overexpression of ZmDWF4 improves major agronomic traits and enhances yield in maize. <i>Molecular Breeding</i> , 2020 , 40, 1	3.4	4
19	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	11.6	4
18	Genetic, hormonal, and environmental control of tillering in wheat. <i>Crop Journal</i> , 2021 ,	4.6	4
17	ARF4 regulates shoot regeneration through coordination with ARF5 and IAA12. <i>Plant Cell Reports</i> , 2021 , 40, 315-325	5.1	4
16	The novel E-subgroup pentatricopeptide repeat protein DEK55 is responsible for RNA editing at multiple sites and for the splicing of <i>nad1</i> and <i>nad4</i> in maize. <i>BMC Plant Biology</i> , 2020 , 20, 553	5.3	3
15	AGC protein kinase AGC1-4 mediates seed size in Arabidopsis. <i>Plant Cell Reports</i> , 2020 , 39, 825-837	5.1	3
14	Pattern analysis of stem cell differentiation during in vitro Arabidopsis organogenesis. <i>Frontiers in Biology</i> , 2010 , 5, 464-470		3
13	ZmTE1 promotes plant height by regulating intercalary meristem formation and internode cell elongation in maize. <i>Plant Biotechnology Journal</i> , 2021 ,	11.6	3

12	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	7	3
11	The BIG gene controls size of shoot apical meristems in Arabidopsis thaliana. <i>Plant Cell Reports</i> , 2020 , 39, 543-552	5.1	2
10	Molecular cloning and expression analysis of HAG1 in the floral organs of Hyacinthus orientalis L. <i>Science in China Series C: Life Sciences</i> , 2000 , 43, 395-401		2
9	Regulation of cell reprogramming by auxin during somatic embryogenesis. <i>ABIOTECH</i> , 2020 , 1, 185-193	3.9	1
8	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	6.9	1
7	Down-expression of TaPIN1s Increases the Tiller Number and Grain Yield in Wheat. <i>BMC Plant Biology</i> , 2021 , 21, 443	5.3	1
6	Options for Engineering Apomixis in Plants.. <i>Frontiers in Plant Science</i> , 2022 , 13, 864987	6.2	1
5	Single-cell profiling lights different cell trajectories in plants. <i>ABIOTECH</i> , 2021 , 2, 64-78	3.9	0
4	A nitrate transporter encoded by ZmNPF7.9 is essential for maize seed development. <i>Plant Science</i> , 2021 , 308, 110901	5.3	0
3	Regulation of Expression Represents the Difference Between Direct and Indirect Shoot Regeneration.. <i>Frontiers in Plant Science</i> , 2022 , 13, 850726	6.2	0
2	Meristem Biology Flourishes Under Mt. Tai. <i>Molecular Plant</i> , 2016 , 9, 1224-1227		14.4
1	Characterization of the gene family in. <i>Plant Signaling and Behavior</i> , 2021 , 16, 1913301		2.5