

## 2022 年 发表的重要研究论文

序号	姓名	论文名称	期刊名称	影响因子
1	杨小红	Convergent selection of a WD40 protein that enhances grain yield in maize and rice	<i>Science</i>	59.937
2	陈艳梅	Dissecting the plant chromatin interactome using mass spectrometry	<i>Trends Biotechnol</i>	20.864
3	陈艳梅	Mapping histone modification-dependent protein interactions with chemical proteomics	<i>Trends Biochem Sci</i>	20.792
4	巩志忠	RAF22, ABI1 and OST1 form a dynamic interactive network that optimizes plant growth and responses to drought stress in <i>Arabidopsis</i>	<i>Mol Plant</i>	19.617
5	傅 纓	<i>Arabidopsis</i> SYP121 acts as an ROP2 effector in the regulation of root hair tip growth	<i>Mol Plant</i>	19.617
6	秦 峰	Natural variations of ZmSRO1d modulate the trade-off between drought resistance and yield by affecting ZmRBOHC-mediated stomatal ROS production in maize	<i>Mol Plant</i>	19.617
7	陈其军	Optimized prime editing efficiently generates glyphosate-resistant rice plants carrying homozygous TAP-IVS mutation in EPSPS	<i>Mol Plant</i>	19.617
8	杨淑华	Natural polymorphism of ZmICE1 contributes to amino acid metabolism that impacts cold tolerance in maize	<i>Nat Plants</i>	19.328
9	周 明	The CLASSY family controls tissue-specific DNA methylation patterns in <i>Arabidopsis</i>	<i>Nat Commun</i>	17.764
10	蒋才富	A dirigent family protein confers variation of Casparian strip thickness and salt tolerance in maize	<i>Nat Commun</i>	17.764
11	金崇伟	Phloem iron remodels root development in response to ammonium as the major nitrogen source	<i>Nat Commun</i>	17.764
12	杨淑华 丁杨林	CPK28-NLP7 module integrates cold-induced Ca <sup>2+</sup> signal and transcriptional reprogramming in <i>Arabidopsis</i>	<i>Sci Adv</i>	16.9
13	杨淑华 丁杨林	Surviving and thriving: How plants perceive and respond to temperature stress	<i>Dev Cell</i>	13.294

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14	张 静	Nitrate availability controls translocation of the transcription factor NAC075 for cell type-specific reprogramming of root growth	<i>Dev Cell</i>	13.294
15	李继刚	Mutual upregulation of HY5 and TZP in mediating phytochrome A signaling	<i>Plant Cell</i>	12.796
16	宋任涛	ENB1 encodes a cellulose synthase 5 that directs synthesis of cell wall ingrowths in maize basal endosperm transfer cells	<i>Plant Cell</i>	12.796
17	巩志忠	Phosphorylation of the plasma membrane H <sup>+</sup> -ATPase AHA2 by BAK1 is required for ABA-induced stomatal closure in <i>Arabidopsis</i>	<i>Plant Cell</i>	12.796
18	李继刚	COP1 positively regulates ABA signaling during <i>Arabidopsis</i> seedling growth in darkness by mediating ABA-induced ABI5 accumulation	<i>Plant Cell</i>	12.796
19	杨淑华 施怡婷	The transcription factor bZIP68 negatively regulates cold tolerance in maize	<i>Plant Cell</i>	12.796
20	陈立群	<i>Arabidopsis</i> ERdj3B coordinates with ERECTA-family receptor kinases to regulate ovule development and the heat stress response	<i>Plant Cell</i>	12.796
21	金危危	Heat shock protein 101 contributes to the thermotolerance of male meiosis in maize	<i>Plant Cell</i>	12.796
22	赖锦盛 王 毅	The sugar transporter ZmSUGCAR1 of the nitrate transporter 1/peptide transporter family is critical for maize grain filling	<i>Plant Cell</i>	12.796
23	郭 岩	SALT OVERLY SENSITIVE 1 is inhibited by clade D protein phosphatase 2C D6 and D7 in <i>Arabidopsis thaliana</i>	<i>Plant Cell</i>	12.796
24	王向锋	The OPEN STOMATA1–SPIRAL1 module regulates microtubule stability during abscisic acid-induced stomatal closure in <i>Arabidopsis</i>	<i>Plant Cell</i>	12.796
25	毛同林 王向锋	HY5 inhibits lateral root initiation in <i>Arabidopsis</i> through negative regulation of the microtubule-stabilizing protein TPXL5	<i>Plant Cell</i>	12.796
26	田 丰	Plant genetics: Mechanisms of wild soybean adaptation	<i>Curr Biol</i>	12.621

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27	蒋才富	A teosinte-derived allele of an HKT1 family sodium transporter improves salt tolerance in maize	<i>Plant Biotechnol J</i>	11.619
28	段留生	Construction and application of star polycation nanocarrier-based microRNA delivery system in <i>Arabidopsis</i> and maize	<i>J Nanobiotechnol</i>	11.509
29	张明才	Optimizing nitrogen management diminished reactive nitrogen loss and acquired optimal net ecosystem economic benefit in a wheat-maize rotation system	<i>J Clean Prod</i>	11.016
30	傅 纓	ECAP is a key negative regulator mediating different pathways to modulate salt stress-induced anthocyanin biosynthesis in <i>Arabidopsis</i>	<i>New Phytol</i>	10.768
31	蒋才富	The classical SOS pathway confers natural variation of salt tolerance in maize	<i>New Phytol</i>	10.768
32	刘建祥	A competition-attenuation mechanism modulates thermoresponsive growth at warm temperatures in plants	<i>New Phytol</i>	10.768
33	李继刚	14-3-3 proteins regulate photomorphogenesis by facilitating light-induced degradation of PIF3	<i>New Phytol</i>	10.768
34	金危危	Maize cytosolic invertase INVAN6 ensures faithful meiotic progression under heat stress	<i>New Phytol</i>	10.768
35	张明才	Fertilizer stabilizers reduce nitrous oxide emissions from agricultural soil by targeting microbial nitrogen transformations	<i>Sci Total Environ</i>	10.237
36	苏 震	WheatCENet: a database for comparative co-expression networks analysis of allohexaploid wheat and its progenitors	<i>Genom Proteom Bioinf</i>	10.196
37	傅 纓	The transcription factor ZmMYB69 represses lignin biosynthesis by regulating ZmMYB31 and ZmMYB42 in maize	<i>Plant Physiol</i>	9.115
38	王 毅	Receptor-like protein kinase BAK1 promotes K <sup>+</sup> uptake by regulating H <sup>+</sup> -ATPase AHA2 under low potassium stress	<i>Plant Physiol</i>	9.115
39	朱 蕾	Stable ARMADILLO REPEAT KINESIN 2 in light inhibits hypocotyl elongation and facilitates light-induced cortical microtubule reorientation in <i>Arabidopsis</i>	<i>J Exp Bot</i>	8.331

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40	周文焜	Small bending, big curvature	<i>J Integr Plant Biol</i>	8.241
41	李继刚 杨淑华	Integration of light and temperature signaling pathways in plants	<i>J Integr Plant Biol</i>	8.241
42	杨永青	Testing the polar auxin transport model with a selective plasma membrane H <sup>+</sup> -ATPase inhibitor	<i>J Integr Plant Biol</i>	8.241
43	丁忠杰	RING-box proteins regulate leaf senescence and stomatal closure via repression of ABA transporter gene ABCG40	<i>J Integr Plant Biol</i>	8.241
44	杨建立	The miR157-SPL-CNR module acts upstream of bHLH101 to negatively regulate iron deficiency responses in tomato	<i>J Integr Plant Biol</i>	8.241
45	巩志忠	BAK1 plays contrasting roles in regulating abscisic acid-induced stomatal closure and abscisic acid inhibited primary root growth in <i>Arabidopsis</i>	<i>J Integ Plant Biol</i>	8.241
46	刘建祥	UBA domain protein SUF1 interacts with NatA-complex subunit NAA15 to regulate thermotolerance in <i>Arabidopsis</i>	<i>J Integr Plant Biol</i>	8.241
47	刘建祥	REVEILLE 7 inhibits the expression of the circadian clock gene EARLY FLOWERING 4 to fine-tune hypocotyl growth in response to warm temperatures	<i>J Integr Plant Biol</i>	8.241
48	杨建立	Abscisic acid-dependent PMT1 expression regulates salt tolerance by alleviating abscisic acid-mediated reactive oxygen species production in <i>Arabidopsis</i>	<i>J Integr Plant Biol</i>	8.241
49	朱 蕾	ARK2 stabilizes the plus-end of microtubules and promotes microtubule bundling in <i>Arabidopsis</i>	<i>J Integr Plant Biol</i>	8.241
50	陈其军	Optimized prime editing efficiently generates heritable mutations in maize	<i>J Integr Plant Biol</i>	8.241
51	苏 震	KNOX II transcription factor HOS59 functions in regulating rice grain size	<i>Plant J</i>	8.028
52	郑绍建	A novel kinase subverts aluminum resistance by boosting Ornithine decarboxylase-dependent putrescine biosynthesis	<i>Plant Cell Environ</i>	7.947

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53	寿惠霞	Functional characterization of the three <i>Oryza sativa</i> SPX-MFS proteins in maintaining phosphate homeostasis	<i>Plant Cell Environ</i>	7.947
54	莫肖蓉	Characterizing membrane anchoring of leaf-form ferredoxin-NADP <sup>+</sup> oxidoreductase in rice	<i>Plant Cell Environ</i>	7.947
55	刘建祥	The FtsH-inactive protein FtsHi5 is required for chloroplast development and protein accumulation in chloroplasts at low ambient temperature in <i>Arabidopsis</i>	<i>Front Plant Sci</i>	7.255
56	杨建立	Potential role of domains rearranged methyltransferase7 in starch and chlorophyll metabolism to regulate leaf senescence in tomato	<i>Front Plant Sci</i>	7.255
57	杨建立	The tomato transcription factor slnac063 is required for aluminum tolerance by regulating slaae3-1 expression	<i>Front Plant Sci</i>	7.255
58	王智烨	Probing in vivo RNA structure with optimized DMS-MaPseq in rice	<i>Front Plant Sci</i>	7.255
59	徐娟	Regulation of <i>Arabidopsis</i> matrix metalloproteinases by mitogen-activated protein kinases and their function in leaf senescence	<i>Front Plant Sci</i>	7.255
60	陈益芳	The ubiquitin E3 ligase PRU2 modulates phosphate uptake in <i>Arabidopsis</i>	<i>Int J Mol Sci</i>	6.628
61	张学琴	MAP3Kε1/2 interact with MOB1A/1B and play important roles in control of pollen germination through crosstalk with JA signaling in <i>Arabidopsis</i>	<i>Int J Mol Sci</i>	6.628
62	王毅	STOP1 regulates LKS1 transcription and coordinates K <sup>+</sup> /NH <sub>4</sub> <sup>+</sup> balance in <i>Arabidopsis</i> response to low-K <sup>+</sup> stress	<i>Int J Mol Sci</i>	6.628
63	刘建祥	Regulation of chloroplast development and function at adverse temperatures in plants	<i>Plant Cell Physiol</i>	5.783
64	杨小红	Identifying QTL and candidate genes for prolificacy in maize	<i>Crop J</i>	5.781
65	金危危	Amino acid permease 6 regulates grain protein content in maize	<i>Crop J</i>	5.781
66	杨小红	Population genomics of <i>Zea</i> species identifies selection signatures during maize domestication and adaptation	<i>BMC Plant Biology</i>	5.761

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67	刘凤霞	Polyamine oxidase 3 is involved in salt tolerance at the germination stage in rice	<i>JGG</i>	5.224
68	李岩	AtFTCD-L, a trans-Golgi network localized protein, modulates root growth of <i>Arabidopsis</i> in high-concentration agar culture medium	<i>Planta</i>	4.689
69	段留生	Design, synthesis and herbicidal evaluation of novel urea derivatives with inhibition activity to root growth	<i>J Plant Growth Regul</i>	4.469
70	苏震	Systems biology-based analysis indicates that PHO1;H10 positively modulates high light-induced anthocyanin biosynthesis in <i>Arabidopsis</i> leaves	<i>Genomics</i>	4.38

累计 SCI 影响因子 805，平均影响因子 11.5/篇。