

2019 年发表的研究论文

序号	通讯作者	论文题目	刊物名称/卷、期、页	影响因子
1	田丰	Teosinte ligule allele narrows plant architecture and enhances high-density maize yields	<i>Science</i> , 2019, 365(6454):658-664	43.655
2	张静	Root growth adaptation by PYLs ABA receptor-PP2A protein phosphatase complex	<i>Adv Sci</i> , 2019, DOI: https://doi.org/10.1002/advs.201901455	15.074
3	郭岩 杨永青	Calcium-activated 14-3-3 proteins as a molecular switch in salt stress tolerance	<i>Nat Commun</i> , 2019, 10(1):1199-1211	13.811
4	徐娟	A MAPK cascade downstream of IDA-HAE/HSL2 ligand-receptor pair in lateral root emergence	<i>Nat Plants</i> , 2019, 5(4):414-423	13.338
5	蒋才富	A HAK family Na ⁺ transporter confers natural variation of salt tolerance in maize	<i>Nat Plants</i> , 2019, 5(12):1297-1308	13.338
6	徐明良	The auxin-regulated protein ZmAuxRP1 coordinates the balance between root growth and stalk rot disease resistance in maize.	<i>Mol Plant</i> , 2019, 12(3):360-373	10.682
7	孙传清	Natural variations at <i>TIG1</i> encoding a TCP transcription factor contribute to plant architecture domestication in rice	<i>Mol Plant</i> , 2019, 12(8):1075-1089	10.682
8	傅纓	<i>Arabidopsis</i> ECAP is a new adaptor protein that connects JAZ repressors with TPR2 co-repressor to suppress jasmonate-responsive anthocyanin accumulation	<i>Mol Plant</i> , 2019, DOI: https://doi.org/10.1016/j.molp.2019.10.014	10.682

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9	金危危	Evolution and domestication footprints uncovered from the genomes of coix	<i>Mol Plant</i> , 2019, DOI: https://doi.org/10.1016/j.molp.2019.11.009	10.682
10	巩志忠	Peroxisomal β -oxidation regulates histone acetylation and DNA methylation in <i>Arabidopsis</i>	<i>Proc Natl Acad Sci U S A</i> , 2019, 116(21):10576-10585	10.6
11	郭岩	AP3M harbors actin filament binding activity that is crucial for vacuole morphology and stomatal closure in <i>Arabidopsis</i>	<i>Proc Natl Acad Sci U S A</i> , 2019, 116(36):18132-18141	10.6
12	杨淑华	EGR2 phosphatase regulates OST1 kinase activity and freezing tolerance in <i>Arabidopsis</i>	<i>EMBO J</i> , 2019, 38, e99819	10.568
13	郭岩	The SOS2-SCaBP8 complex generates and fine-tunes an AtANN4-dependent calcium signature under salt stress	<i>Dev Cell</i> , 2019, 48(5):697-709	9.878
14	杨淑华	PUB25 and PUB26 promote plant freezing tolerance by degrading the cold signaling negative regulator MYB15	<i>Dev Cell</i> , 2019, 51(2):222-235	9.878
15	宋任涛	Maize <i>Dek15</i> encodes the cohesin-loading complex subunit SCC4 and is essential for chromosome segregation and kernel development	<i>Plant Cell</i> , 2019, 31(2):365-485	9.848
16	王毅	The transcription factor MYB59 regulates K^+/NO_3^- translocation in the <i>Arabidopsis</i> response to low K^+ stress	<i>Plant Cell</i> , 2019, 31(3):699-714	9.848
17	毛传澡	OsSPL3, an SBP-domain protein, regulates crown root development in rice	<i>Plant Cell</i> , 2019, 31(6):1257-1275	9.848

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18	郭岩	The Ca ²⁺ sensor SCaBP3/CBL7 modulates plasma membrane H ⁺ -ATPase activity and promotes alkali tolerance in <i>Arabidopsis</i>	<i>Plant Cell</i> , 2019, 31(6):1367-1384	9.848
19	田丰	Evolutionary metabolomics identifies substantial metabolic divergence between maize and its wild ancestor, teosinte	<i>Plant Cell</i> , 2019, 31(9):1990-2009	9.848
20	杨淑华	BIN2 negatively regulates ICE1 stability in response to cold stress in <i>Arabidopsis</i>	<i>Plant Cell</i> , 2019, 31(11):2682-2696	9.848
21	蒋才富	A domestication-associated reduction in K ⁺ -preferring HKT transporter activity underlies maize shoot K ⁺ accumulation and salt tolerance	<i>New Phytol</i> , 2019, 222(1):301-317	8.344
22	李继刚	ABRE-BINDING FACTORS play a role in the feedback regulation of ABA signaling by mediating rapid ABA induction of ABA co-receptor genes	<i>New Phytol</i> , 2019, 221(1):341-355	8.344
23	王向锋	BES1 hinders ABSCISIC ACID INSENSITIVE5 and promotes seed germination in <i>Arabidopsis</i>	<i>New Phytol</i> , 2019, 221(2):908-918	8.344
24	杨淑华	Advances and challenges in uncovering cold tolerance regulatory mechanisms in plants	<i>New Phytol</i> , 2019, 222(4):1690-1704	8.344
25	李召虎	Phosphatase GhDsPTP3a interacts with annexin protein GhANN8b to reversely regulate salt tolerance in cotton (<i>Gossypium spp.</i>)	<i>New Phytol</i> , 2019, 223(4):1856-1872	8.344

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26	寿惠霞	A transcription factor OsbHLH156 regulates strategy II iron acquisition through localizing IRO2 to the nucleus in rice	<i>New Phytol</i> , 2019, DOI: https://doi.org/10.1111/nph.16232	8.344
27	杨建立	Low phosphate represses histone deacetylase complex 1 to regulate root system architecture remodeling in <i>Arabidopsis</i>	<i>New Phytol</i> , 2019, DOI: https://doi.org/10.1111/nph.16264	8.344
28	毛同林	Understanding the functions and mechanisms of plant cytoskeleton in response to environmental signals	<i>Curr Opin Plant Biol</i> , 2019, 52:86-96	7.889
29	金崇伟	Knockdown of BTS may provide a new strategy to improve cadmium-phytoremediation efficiency by improving iron status in plants	<i>J Hazard Mater</i> , 2019, DOI: https://doi.org/10.1016/j.jhazmat.2019.121473	7.336
30	杨小红	SEED CAROTENOID DEFICIENT functions in isoprenoid biosynthesis via the plastid MEP pathway	<i>Plant Physiol</i> , 2019, 179(4):1723-1738	7.024
31	张静	Nitrate modulates the differentiation of root distal stem cells	<i>Plant Physiol</i> , 2019, 180 (1):22-25	7.024
32	寿惠霞	The soybean sugar transporter GmSWEET15 mediates sucrose export from endosperm to early embryo	<i>Plant Physiol</i> , 2019, 180(4):2133-2141	7.024
33	巩志忠	Redox-mediated endocytosis of a receptor-like kinase during distal stem cell differentiation depends on its tumor necrosis factor receptor domain	<i>Plant Physiol</i> , 2019, 181(3):1075-1095	7.024

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34	宋任涛	A sequence-indexed <i>Mutator</i> insertional library for maize functional genomics study	<i>Plant Physiol</i> , 2019, 2019,181(4):1404-1414	7.024
35	陈其军	A novel ternary vector system united with morphogenic genes enhances CRISPR/Cas delivery in maize	<i>Plant Physiol</i> , 2019, 181(4):1441-1448	7.024
36	李颖章	H2Bub1 regulates <i>RbohD</i> -dependent H ₂ O ₂ signal pathway in the defense responses to <i>Verticillium dahliae</i> toxins	<i>Plant Physiol</i> , 2019, DOI: https://doi.org/10.1104/pp.19.00913 (online)	7.024
37	刘凤霞	The lipid transfer protein OsLTPL159 is involved in cold tolerance at the early seedling stage in rice	<i>Plant Biotech J</i> , 2019, DOI: https://doi.org/10.1111/pbi.13243	6.792
38	傅纓	Maize <i>ZmRPH1</i> encodes a microtubule-associated protein that controls plant and ear height	<i>Plant Biotech J</i> , 2019, DOI: https://doi.org/10.1111/pbi.13292	6.792
39	刘建祥	A membrane-associated NAC transcription factor OsNTL3 is involved in thermotolerance in rice	<i>Plant Biotech J</i> , 2019, DOI: https://doi.org/10.1111/pbi.13297	6.792
40	陈立群	Characterization of <i>LRL5</i> as a key regulator of root hair growth in maize	<i>Plant J</i> , 2019, 98(1):71-82	6.467
41	陈艳梅	Rapid and reproducible phosphopeptide enrichment by tandem metal oxide affinity chromatography: application to boron deficiency induced phosphoproteomics	<i>Plant J</i> , 2019, 98(2):370-384	6.467
42	刘凤霞	Identification of an active miniature inverted-repeat transposable element <i>mJing</i> in rice	<i>Plant J</i> , 2019, 98(4): 639-653	6.467

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43	毛传澡	CRD1, an Xpo1 domain protein, regulates miRNA accumulation and crown root development in rice	<i>Plant J</i> , 2019, 100(2):328-342	6.467
44	杨小红	Genetic basis of kernel nutritional traits during maize domestication and improvement	<i>Plant J</i> , 2019, DOI: https://doi.org/10.1111/tpj.14539	6.467
45	任东涛	The MAPK-like protein 1 positively regulates maize seedling drought sensitivity by suppressing ABA biosynthesis	<i>Plant J</i> , 2019, DOI: https://doi.org/10.1111/tpj.14660	6.467
46	郑绍建	A feedback loop between <i>CaWRKY41</i> and H ₂ O ₂ coordinates the response to <i>Ralstonia solanacearum</i> and excess cadmium in pepper	<i>J Exp Bot</i> , 2019, 70(5):1581-1595	6.305
47	金崇伟	Nitrate transporter 1.1 alleviates Pb toxicity in <i>Arabidopsis</i> by preventing rhizosphere acidification	<i>J Exp Bot</i> , 2019, 70(21):6363-6374	6.305
48	毛同林	Submergence stress-induced hypocotyl elongation through ethylene signaling-mediated regulation of cortical microtubules in <i>Arabidopsis</i>	<i>J Exp Bot</i> , 2019, DOI: https://doi.org/10.1093/jxb/erz453	6.305
49	韩玉珍	KHZ1 and KHZ2, novel members of the autonomous pathway, repress the splicing efficiency of <i>FLC</i> pre-mRNA in <i>Arabidopsis</i>	<i>J Exp Bot</i> , 2019, DOI: https://doi.org/10.1093/jxb/erz499	6.305
50	齐艳华	The auxin influx carrier, OsAUX3, regulates rice root development and responses to aluminium stress	<i>Plant Cell Environ</i> , 2019, 42(4):1125–1138	6.026

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51	杨建立	A NAC - type transcription factor confers aluminum resistance by regulating cell wall - associated receptor kinase 1 and cell wall pectin	<i>Plant Cell Environ</i> , 2019, DOI: https://doi.org/10.1111/pce.13676	6.026
52	寿惠霞	A vacuolar membrane ferric-chelate reductase, OsFRO1 alleviates Fe toxicity in rice (<i>Oryza sativa</i> L.)	<i>Front Plant Sci</i> , 2019, 10:700	4.855
53	苏震	AppleMDO: a multi-dimensional omics database for apple co-expression networks and chromatin states	<i>Front Plant Sci</i> , 2019, 10:1333	4.855
54	毛传澡	Molecular mechanisms of root development in rice	<i>Rice</i> , 2019, 12(1):1	4.625
55	王毅	Electrophysiological identification and activity analyses of plasma membrane K ⁺ channels in maize guard cells	<i>Plant Cell Physiol</i> , 2019, 60(4): 765-777	4.599
56	田晓莉	The cotton high-affinity K ⁺ transporter, GhHAK5a, is essential for shoot regulation of K ⁺ uptake in root under potassium deficiency	<i>Plant Cell Physiol</i> , 2019, 60(4): 888-899	4.599
57	毛传澡	Functional divergence of PIN1 paralogous genes in rice	<i>Plant Cell Physiol</i> , 2019, 60(12):2720-2732	4.599
58	段留生	System analysis of <i>MIRNAs</i> in maize internode elongation	<i>Biomolecules</i> , 2019, 9(9), 417	4.561
59	段留生	A novel ABA functional analogue B2 enhances drought tolerance in wheat	<i>Sci Rep</i> , 2019, 9(1):2887	4.525

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60	李溱	Phosphoproteomic analysis of two contrasting maize inbred lines provides insights into the mechanism of salt-stress tolerance	<i>Int J. Mol. Sci.</i> 2019, 20(8):1886	4.331
61	苏震	AtSPX1-mediated transcriptional regulation during leaf senescence in <i>Arabidopsis thaliana</i>	<i>Plant Sci</i> , 2019, 283:238-246	4.064
62	任东涛	Comparative phosphoproteomic analysis of developing maize seeds suggests a pivotal role for enolase in promoting starch synthesis	<i>Plant Sci</i> , 2019, 289:110243	4.064
63	杨建立	Alleviation by abscisic acid of Al toxicity in rice bean is not associated with citrate efflux but depends on ABI5-mediated signal transduction pathways.	<i>J Integr Plant Biol</i> , 2019, 61(2):140-154	4.061
64	王毅	ZmHAK5 and ZmHAK1 function in K ⁺ uptake and distribution in maize under low K ⁺ conditions	<i>J Integr Plant Biol</i> , 2019, 61(6):691-705	4.061
65	宋任涛	<i>Dek42</i> encodes an RNA-binding protein that affects alternative pre-mRNA splicing and maize kernel development	<i>J Integr Plant Biol</i> , 2019, 61(6):728-748	4.061
66	郑绍建	Jasmonic acid alleviates cadmium toxicity in <i>Arabidopsis</i> via suppression of cadmium uptake and translocation	<i>J Integr Plant Biol</i> , 2019, DOI: https://doi.org/10.1111/jipb.12801	4.061
67	汪洋	Phosphorylation at Ser28 stabilizes the <i>Arabidopsis</i> nitrate transporter NRT2.1 in response to nitrate limitation	<i>J Integr Plant Biol</i> , 2019, DOI: https://doi.org/10.1111/jipb.12858	4.061

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68	杨建立	FeSTAR2 interacted by FeSTAR1 alters its subcellular location and regulates Al tolerance in buckwheat	<i>Plant Soil</i> , 2019, 436:489-501	3.761
69	苏震	croFGD: <i>catharanthus roseus</i> functional genomics database	<i>Front Genet</i> , 2019, 10:238	3.372
70	苏震	Chromatin state-based analysis of epigenetic H3K4me3 marks of <i>Arabidopsis</i> in response to dark stress	<i>Front Genet</i> , 2019, 10:306	3.372

累计 **SCI** 影响因子 **552**，平均影响因子 **7.9/篇**。