五、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	***Science***, 2019, 365(6454):658-664	**43.655**
2	张静	Root growth adaptation by PYLs ABA receptor-PP2A protein phosphatase complex	***Adv Sci***, 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	***Nat Commun***, 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	***Nat Plants***, 2019, 5(4):414-423	**13.338**
5	蒋才富	A HAK family Na^+ transporter confers natural variation of salt tolerance in maize	***Nat Plants***, 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.	***Mol Plant,*** 2019, 12(3):360-373	**10.682**
7	孙传清	Natural variations at *TIG1* encoding a TCP transcription factor contribute to plant architecture domestication in rice	***Mol Plant***, 2019, 12(8):1075-1089	**10.682**
8	傅缨	*Arabidopsis* ECAP is a new adaptor protein that connects JAZ repressors with TPR2 co-repressor to suppress jasmonate-responsive anthocyanin accumulation	***Mol Plant***, 2019,DOI: https://doi.org/10.1016/j.molp.2019.10.014	**10.682**

序号	通讯作者	论文题目	刊物名称/卷、期、页	影响因子
9	金危危	Evolution and domestication footprints uncovered from the genomes of coix	***Mol Plant***, 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 *Arabidopsis*	***Proc Natl Acad Sci U S A***, 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 *Arabidopsis*	***Proc Natl Acad Sci U S A***, 2019, 116(36):18132-18141	**10.6**
12	杨淑华	EGR2 phosphatase regulates OST1 kinase activity and freezing tolerance in *Arabidopsis*	***EMBO J***, 2019, 38, e99819	**10.568**
13	郭岩	The SOS2-SCaBP8 complex generates and fine-tunes an AtANN4-dependent calcium signature under salt stress	***Dev Cell***, 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	***Dev Cell***, 2019, 51(2):222-235	**9.878**
15	宋任涛	Maize *Dek15* encodes the cohesin-loading complex subunit SCC4 and is essential for chromosome segregation and kernel development	***Plant Cell***, 2019, 31(2):365-485	**9.848**
16	王毅	The transcription factor MYB59 regulates K^+/NO_3^- translocation in the *Arabidopsis* response to low K^+ stress	***Plant Cell***, 2019, 31(3):699-714	**9.848**
17	毛传澡	OsSPL3, an SBP-domain protein, regulates crown root development in rice	***Plant Cell***, 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 *Arabidopsis*	***Plant Cell***, 2019, 31(6):1367-1384	**9.848**
19	田丰	Evolutionary metabolomics identifies substantial metabolic divergence between maize and its wild ancestor, teosinte	***Plant Cell***, 2019, 31(9):1990-2009	**9.848**
20	杨淑华	BIN2 negatively regulates ICE1 stability in response to cold stress in *Arabidopsis*	***Plant Cell***, 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	***New Phytol***, 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	***New Phytol***, 2019, 221(1):341-355	**8.344**
23	王向锋	BES1 hinders ABSCISIC ACID INSENSITIVE5 and promotes seed germination in *Arabidopsis*	***New Phytol***, 2019, 221(2):908-918	**8.344**
24	杨淑华	Advances and challenges in uncovering cold tolerance regulatory mechanisms in plants	***New Phytol***, 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 (*Gossypium spp.*)	***New Phytol***, 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	***New Phytol***, 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 *Arabidopsis*	***New Phytol***, 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	***Curr Opin Plant Biol***, 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	***J Hazard Mater***, 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	***Plant Physiol***, 2019, 179(4):1723-1738	**7.024**
31	张静	Nitrate modulates the differentiation of root distal stem cells	***Plant Physiol***, 2019, 180 (1):22-25	**7.024**
32	寿惠霞	The soybean sugar transporter GmSWEET15 mediates sucrose export from endosperm to early embryo	***Plant Physiol***, 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	***Plant Physiol***, 2019, 181(3):1075-1095	**7.024**

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34	宋任涛	A sequence-indexed *Mutator* insertional library for maize functional genomics study	***Plant Physiol***, 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	***Plant Physiol***, 2019, 181(4):1441-1448	**7.024**
36	李颖章	H2Bub1 regulates *RbohD*-dependent H_2O_2 signal pathway in the defense responses to *Verticillium dahliae* toxins	***Plant Physiol***，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	***Plant Biotech J***, 2019, DOI: https://doi.org/10.1111/pbi.13243	**6.792**
38	傅缨	Maize *ZmRPH1* encodes a microtubule-associated protein that controls plant and ear height	***Plant Biotech J***, 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	***Plant Biotech J***, 2019,DOI: https://doi.org/10.1111/pbi.13297	**6.792**
40	陈立群	Characterization of *LRL5* as a key regulator of root hair growth in maize	***Plant J***, 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	***Plant J***, 2019, 98(2):370-384	**6.467**
42	刘凤霞	Identification of an active miniature inverted-repeat transposable element *mJing* in rice	***Plant J***, 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	***Plant J***, 2019, 100(2):328-342	**6.467**
44	杨小红	Genetic basis of kernel nutritional traits during maize domestication and improvement	***Plant J***, 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	***Plant J***, 2019, DOI：https://doi.org/10.1111/tpj.14660	**6.467**
46	郑绍建	A feedback loop between *CaWRKY41* and H_2O_2 coordinates the response to *Ralstonia solanacearum* and excess cadmium in pepper	***J Exp Bot***, 2019, 70(5):1581-1595	**6.305**
47	金崇伟	Nitrate transporter 1.1 alleviates Pb toxicity in *Arabidopsis* by preventing rhizosphere acidification	***J Exp Bot***, 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 *Arabidopsis*	***J Exp Bot***, 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 *FLC* pre-mRNA in *Arabidopsis*	***J Exp Bot***, 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	***Plant Cell Environ***, 2019, 42(4):1125–1138	**6.026**
51	杨建立	A NAC‐type transcription factor confers aluminum resistance by regulating cell wall‐associated receptor kinase 1 and cell wall pectin	***Plant Cell Environ***, 2019, DOI: https://doi.org/10.1111/pce.13676	**6.026**

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52	寿惠霞	A vacuolar membrane ferric-chelate reductase, OsFRO1 alleviates Fe toxicity in rice (*Oryza sativa* L.)	***Front Plant Sci***, 2019, 10:700	**4.855**
53	苏震	AppleMDO: a multi-dimensional omics database for apple co-expression networks and chromatin states	***Front Plant Sci***, 2019, 10:1333	**4.855**
54	毛传澡	Molecular mechanisms of root development in rice	***Rice***, 2019, 12(1):1	**4.625**
55	王毅	Electrophysiological identification and activity analyses of plasma membrane K^+ channels in maize guard cells	***Plant Cell Physiol***, 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	***Plant Cell Physiol***, 2019, 60(4): 888-899	**4.599**
57	毛传澡	Functional divergence of PIN1 paralogous genes in rice	***Plant Cell Physiol***, 2019, 60(12):2720-2732	**4.599**
58	段留生	System analysis of *MIRNAs* in maize internode elongation	***Biomolecules***, 2019, 9(9), 417	**4.561**
59	段留生	A novel ABA functional analogue B2 enhances drought tolerance in wheat	***Sci Rep***, 2019, 9(1):2887	**4.525**
60	李溱	Phosphoproteomic analysis of two contrasting maize inbred lines provides insights into the mechanism of salt-stress tolerance	***Int I J Mol Sci***, 2019, 20(8):1886	**4.331**

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61	苏震	AtSPX1-mediated transcriptional regulation during leaf senescence in *Arabidopsis thaliana*	***Plant Sci***, 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	***Plant Sci***, 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.	***J Integr Plant Biol***, 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	***J Integr Plant Biol***, 2019, 61(6):691-705	**4.061**
65	宋任涛	*Dek42* encodes an RNA-binding protein that affects alternative pre-mRNA splicing and maize kernel development	***J Integr Plant Biol***, 2019, 61(6):728-748	**4.061**
66	郑绍建	Jasmonic acid alleviates cadmium toxicity in *Arabidopsis* via suppression of cadmium uptake and translocation	***J Integr Plant Biol***, 2019, DOI: https://doi.org/10.1111/jipb.12801	**4.061**
67	汪洋	Phosphorylation at Ser28 stabilizes the *Arabidopsis* nitrate transporter NRT2.1 in response to nitrate limitation	***J Integr Plant Biol***, 2019, DOI: https://doi.org/10.1111/jipb.12858	**4.061**
68	杨建立	FeSTAR2 interacted by FeSTAR1 alters its subcellular location and regulates Al tolerance in buckwheat	***Plant Soil***, 2019, 436:489-501	**3.761**

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69	苏震	croFGD: *catharanthus roseus* functional genomics database	***Front Genet***, 2019, 10:238	**3.372**
70	苏震	Chromatin state-based analysis of epigenetic H3K4me3 marks of *Arabidopsis* in response to dark stress	***Front Genet***, 2019, 10:306	**3.372**

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

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