Zheng Yuan

List of Publications by Year
in descending order

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47	4,077	304743	233421
papers	citations	22 h-index	45 g-index

48	48	48	4331
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Rice Tapetum Degeneration Retardation Gene Is Required for Tapetum Degradation and Anther Development. Plant Cell, 2006, 18, 2999-3014.	6.6	615
2	Genome-Wide Analysis of Basic/Helix-Loop-Helix Transcription Factor Family in Rice and Arabidopsis. Plant Physiology, 2006, 141, 1167-1184.	4.8	527
3	The ABORTED MICROSPORES Regulatory Network Is Required for Postmeiotic Male Reproductive Development in Arabidopsis thaliana Â Â. Plant Cell, 2010, 22, 91-107.	6.6	294
4	PERSISTENT TAPETAL CELL1Encodes a PHD-Finger Protein That Is Required for Tapetal Cell Death and Pollen Development in Rice Â Â Â. Plant Physiology, 2011, 156, 615-630.	4.8	256
5	Jasmonic acid regulates spikelet development in rice. Nature Communications, 2014, 5, 3476.	12.8	229
6	Molecular Control of Grass Inflorescence Development. Annual Review of Plant Biology, 2014, 65, 553-578.	18.7	222
7	ABORTED MICROSPORESActs as a Master Regulator of Pollen Wall Formation inArabidopsisÂ Â Â. Plant Cell, 2014, 26, 1544-1556.	6.6	211
8	The FLORAL ORGAN NUMBER4 Gene Encoding a Putative Ortholog of Arabidopsis CLAVATA3 Regulates Apical Meristem Size in Rice. Plant Physiology, 2006, 142, 1039-1052.	4.8	198
9	RETARDED PALEA1 Controls Palea Development and Floral Zygomorphy in Rice Â. Plant Physiology, 2009, 149, 235-244.	4.8	189
10	Tapetum Degeneration Retardation is Critical for Aliphatic Metabolism and Gene Regulation during Rice Pollen Development. Molecular Plant, 2008, 1, 599-610.	8.3	173
11	The Putative RNA-Dependent RNA Polymerase RDR6 Acts Synergistically with ASYMMETRIC LEAVES1 and 2 to Repress BREVIPEDICELLUS and MicroRNA165/166 in Arabidopsis Leaf Development. Plant Cell, 2005, 17, 2157-2171.	6.6	168
12	Roles of jasmonate signalling in plant inflorescence and flower development. Current Opinion in Plant Biology, 2015, 27, 44-51.	7.1	135
13	RICE MORPHOLOGY DETERMINANTEncodes the Type II Formin FH5 and Regulates Rice Morphogenesis Â Â. Plant Cell, 2011, 23, 681-700.	6.6	101
14	Development of japonica Photo-Sensitive Genic Male Sterile Rice Lines by Editing Carbon Starved Anther Using CRISPR/Cas9. Journal of Genetics and Genomics, 2016, 43, 415-419.	3.9	99
15	Biphasic regulation of the transcription factor <scp>ABORTED MICROSPORES</scp> (<scp>AMS</scp>) is essential for tapetum and pollen development in Arabidopsis. New Phytologist, 2017, 213, 778-790.	7.3	94
16	Interactions of OsMADS1 with Floral Homeotic Genes in Rice Flower Development. Molecular Plant, 2015, 8, 1366-1384.	8.3	87
17	Duplication and expression analysis of multicopy miRNA gene family members in Arabidopsis and rice. Cell Research, 2006, 16, 507-518.	12.0	41
18	Development of genomeâ€wide insertion/deletion markers in rice based on graphic pipeline platform. Journal of Integrative Plant Biology, 2015, 57, 980-991.	8.5	41

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19	Dynamic Regulation of Auxin Response during Rice Development Revealed by Newly Established Hormone Biosensor Markers. Frontiers in Plant Science, 2017, 8, 256.	3.6	41
20	A rice single cell transcriptomic atlas defines the developmental trajectories of rice floret and inflorescence meristems. New Phytologist, 2022, 234, 494-512.	7.3	41
21	Investigation of CRISPR/Cas9-induced SD1 rice mutants highlights the importance of molecular characterization in plant molecular breeding. Journal of Genetics and Genomics, 2020, 47, 273-280.	3.9	29
22	OsMADS32 interacts with PIâ€like proteins and regulates rice flower development. Journal of Integrative Plant Biology, 2015, 57, 504-513.	8.5	25
23	Overexpression of the Arabidopsis Gene UPRIGHT ROSETTE Reveals a Homeostatic Control for Indole-3-Acetic Acid Â Â. Plant Physiology, 2010, 153, 1311-1320.	4.8	22
24	Characterization of factors underlying the metabolic shifts in developing kernels of colored maize. Scientific Reports, 2016, 6, 35479.	3.3	22
25	An array of 60,000 antibodies for proteome-scale antibody generation and target discovery. Science Advances, 2020, 6, eaax2271.	10.3	22
26	Image-Based On-Panicle Rice [Oryza sativa L.] Grain Counting with a Prior Edge Wavelet Correction Model. Agronomy, 2018, 8, 91.	3.0	18
27	Panicle Development. , 2013, , 279-295.		18
28	Development of methods for effective identification of CRISPR/Cas9-induced indels in rice. Plant Cell Reports, 2019, 38, 503-510.	5.6	15
29	The OsJAZ1 degron modulates jasmonate signaling sensitivity during rice development. Development (Cambridge), 2019, 146, .	2.5	14
30	Molecular and genetic pathways for optimizing spikelet development and grain yield. ABIOTECH, 2020, 1, 276-292.	3.9	13
31	Panicle-3D: Efficient Phenotyping Tool for Precise Semantic Segmentation of Rice Panicle Point Cloud. Plant Phenomics, 2021, 2021, 9838929.	5.9	13
32	Carbon Starved Anther modulates sugar and ABA metabolism to protect rice seed germination and seedling fitness. Plant Physiology, 2021, 187, 2405-2418.	4.8	11
33	Ectopic expression of OsJAZ6, which interacts with OsJAZ1, alters JA signaling and spikelet development in rice. Plant Journal, 2021, 108, 1083-1096.	5.7	10
34	The GAOLAOZHUANGREN2 gene is required for normal glucose response and development of Arabidopsis. Journal of Plant Research, 2004, 117, 473-476.	2.4	9
35	Rice transcription factor MADS32 regulates floral patterning through interactions with multiple floral homeotic genes. Journal of Experimental Botany, 2021, 72, 2434-2449.	4.8	9
36	Expression and purification of the synthetic preS1 gene of Hepatitis B Virus with preferred Escherichia coli codon preference. Protein Expression and Purification, 2006, 48, 74-80.	1.3	8

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37	Genomeâ€wide Expression Profiling in Seedlings of the Arabidopsis Mutant uro that is Defective in the Secondary Cell Wall Formation. Journal of Integrative Plant Biology, 2007, 49, 1754-1762.	8.5	8
38	Generating Photoperiod-Sensitive Genic Male Sterile Rice Lines with CRISPR/Cas9. Methods in Molecular Biology, 2019, 1917, 97-107.	0.9	8
39	Embryogenesis and seed development in Sinomanglietia glauca (Magnoliaceae). Journal of Plant Research, 2006, 119, 163-166.	2.4	7
40	Development of a RAD-Seq Based DNA Polymorphism Identification Software, AgroMarker Finder, and Its Application in Rice Marker-Assisted Breeding. PLoS ONE, 2016, 11, e0147187.	2.5	7
41	Effective identification of CRISPR/Cas9-induced and naturally occurred mutations in rice using a multiplex ligation-dependent probe amplification-based method. Theoretical and Applied Genetics, 2020, 133, 2323-2334.	3.6	7
42	Synthetic biosensor for mapping dynamic responses and spatioâ€temporal distribution of jasmonate in rice. Plant Biotechnology Journal, 2021, 19, 2392-2394.	8.3	7
43	Robust image restoration for rotary motion blur based on frequency analysis. Optical Engineering, 2008, 47, 097004.	1.0	5
44	DELAYED FLOWERING, an Arabidopsis Gene That Acts in the Autonomous Flowering Promotion Pathway and Is Required for Normal Development. Journal of Integrative Plant Biology, 2006, 48, 27-34.	8.5	3
45	Field Phenotyping Robot Design and Validation for the Crop Breeding. IFAC-PapersOnLine, 2016, 49, 281-286.	0.9	3
46	The Development of DNA Based Methods for the Reliable and Efficient Identification ofNicotiana tabacumin Tobacco and Its Derived Products. International Journal of Analytical Chemistry, 2016, 2016, 1-6.	1.0	1
47	Robust image restoration for rotary motion degradations and the motion parameter identification. , 2008, , .		0