Xuelian Zheng

List of Publications by Citations

31 papers	2,220 citations	20 h-index	34 g-index
34 ext. papers	2,894 ext. citations	8.4 avg, IF	4.76 L-index

#	Paper	IF	Citations
31	A CRISPR/Cas9 Toolbox for Multiplexed Plant Genome Editing and Transcriptional Regulation. *Plant Physiology*, **2015**, 169, 971-85	6.6	408
30	A CRISPR-Cpf1 system for efficient genome editing and transcriptional repression in plants. *Nature Plants*, **2017**, 3, 17018	11.5	308
29	Rapid and efficient gene modification in rice and Brachypodium using TALENs. *Molecular Plant*, **2013**, 6, 1365-8	14.4	200
28	A large-scale whole-genome sequencing analysis reveals highly specific genome editing by both Cas9 and Cpf1 (Cas12a) nucleases in rice. *Genome Biology*, **2018**, 19, 84	18.3	155
27	CRISPR-Cas9 Based Genome Editing Reveals New Insights into MicroRNA Function and Regulation in Rice. *Frontiers in Plant Science*, **2017**, 8, 1598	6.2	105
26	Application of CRISPR-Cas12a temperature sensitivity for improved genome editing in rice, maize, and Arabidopsis. *BMC Biology*, **2019**, 17, 9	7.3	102
25	A Single Transcript CRISPR-Cas9 System for Efficient Genome Editing in Plants. *Molecular Plant*, **2016**, 9, 1088-91	14.4	98
24	Plant Prime Editors Enable Precise Gene Editing in Rice Cells. *Molecular Plant*, **2020**, 13, 667-670	14.4	94
23	Plant Genome Editing Using FnCpf1 and LbCpf1 Nucleases at Redefined and Altered PAM Sites. *Molecular Plant*, **2018**, 11, 999-1002	14.4	92
22	Multiplex QTL editing of grain-related genes improves yield in elite rice varieties. *Plant Cell Reports*, **2019**, 38, 475-485	5.1	75
21	Single transcript unit CRISPR 2.0 systems for robust Cas9 and Cas12a mediated plant genome editing. *Plant Biotechnology Journal*, **2019**, 17, 1431-1445	11.6	75
20	CRISPR-Cas12b enables efficient plant genome engineering. *Nature Plants*, **2020**, 6, 202-208	11.5	63
19	PAM-less plant genome editing using a CRISPR-SpRY toolbox. *Nature Plants*, **2021**, 7, 25-33	11.5	61
18	Effective screen of CRISPR/Cas9-induced mutants in rice by single-strand conformation polymorphism. *Plant Cell Reports*, **2016**, 35, 1545-54	5.1	56
17	Ectopic Expression of DREB Transcription Factor, AtDREB1A, Confers Tolerance to Drought in Transgenic Salvia miltiorrhiza. *Plant and Cell Physiology*, **2016**, 57, 1593-609	4.9	55
16	Modulating Expression Improves Drought Tolerance in. *Frontiers in Plant Science*, **2017**, 8, 52	6.2	33
15	Arabidopsis DREB1B in transgenic Salvia miltiorrhiza increased tolerance to drought stress without stunting growth. *Plant Physiology and Biochemistry*, **2016**, 104, 17-28	5.4	29

List of Publications

14	Bidirectional Promoter-Based CRISPR-Cas9 Systems for Plant Genome Editing. *Frontiers in Plant Science*, **2019**, 10, 1173	6.2	28
13	Knockout of the Transcription Factor Causes Drought and Heat Sensitivity in Rice. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	25
12	Expanding the scope of plant genome engineering with Cas12a orthologs and highly multiplexable editing systems. *Nature Communications*, **2021**, 12, 1944	17.4	17
11	Intron-Based Single Transcript Unit CRISPR Systems for Plant Genome Editing. *Rice*, **2020**, 13, 8	5.8	15
10	Improved plant cytosine base editors with high editing activity, purity, and specificity. *Plant Biotechnology Journal*, **2021**, 19, 2052-2068	11.6	14
9	MIGS as a Simple and Efficient Method for Gene Silencing in Rice. *Frontiers in Plant Science*, **2018**, 9, 662	6.2	8
8	CRISPR-Cas9 mediated OsMIR168a knockout reveals its pleiotropy in rice. *Plant Biotechnology Journal*, **2021**,	11.6	7
7	The Improvement of CRISPR-Cas9 System With Ubiquitin-Associated Domain Fusion for Efficient Plant Genome Editing. *Frontiers in Plant Science*, **2020**, 11, 621	6.2	6
6	CRISPR-BETS: a base-editing design tool for generating stop codons. *Plant Biotechnology Journal*, **2021**,	11.6	5
5	Exploring C-To-G Base Editing in Rice, Tomato, and Poplar. *Frontiers in Genome Editing*, **2021**, 3, 756766	2.5	4
4	Knocking Out MicroRNA Genes in Rice with CRISPR-Cas9. *Methods in Molecular Biology*, **2019**, 1917, 109-119	1.4	3
3	A large-scale whole-genome sequencing analysis reveals highly specific genome editing by both Cas9 and Cpf1 nucleases in rice		2
2	Construction of a Single Transcriptional Unit for Expression of Cas9 and Single-guide RNAs for Genome Editing in Plants. *Bio-protocol*, **2017**, 7, e2546	0.9	1
1	Improving a Quantitative Trait in Rice by Multigene Editing with CRISPR-Cas9. *Methods in Molecular Biology*, **2021**, 2238, 205-219	1.4	