Xuelian Zheng

List of Publications by Year
in descending order

31 papers	3,463 citations	257450 24 h-index	414414 32 g-index
34 all docs	34 docs citations	34 times ranked	2857 citing authors

#	Article	IF	Citations
1	A CRISPR/Cas9 Toolbox for Multiplexed Plant Genome Editing and Transcriptional Regulation. Plant Physiology, 2015, 169, 971-985.	4.8	532
2	A CRISPRâ€“Cpf1 system for efficient genome editing and transcriptional repression in plants. Nature Plants, 2017, 3, 17018.	9.3	425
3	Rapid and Efficient Gene Modification in Rice and Brachypodium Using TALENs. Molecular Plant, 2013, 6, 1365-1368.	8.3	245
4	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.	8.8	230
5	Application of CRISPR-Cas12a temperature sensitivity for improved genome editing in rice, maize, and Arabidopsis. BMC Biology, 2019, 17, 9.	3.8	172
6	CRISPR-Cas9 Based Genome Editing Reveals New Insights into MicroRNA Function and Regulation in Rice. Frontiers in Plant Science, 2017, 8, 1598.	3.6	150
7	Plant Prime Editors Enable Precise Gene Editing inÂRice Cells. Molecular Plant, 2020, 13, 667-670.	8.3	148
8	A Single Transcript CRISPR-Cas9 System for Efficient Genome Editing in Plants. Molecular Plant, 2016, 9, 1088-1091.	8.3	144
9	PAM-less plant genome editing using a CRISPRâ€“SpRY toolbox. Nature Plants, 2021, 7, 25-33.	9.3	140
10	Plant Genome Editing Using FnCpf1 and LbCpf1 Nucleases at Redefined and Altered PAM Sites. Molecular Plant, 2018, 11, 999-1002.	8.3	136
11	Multiplex QTL editing of grain-related genes improves yield in elite rice varieties. Plant Cell Reports, 2019, 38, 475-485.	5.6	136
12	Single transcript unit <scp>CRISPR</scp> 2.0 systems for robust Cas9 and Cas12a mediated plant genome editing. Plant Biotechnology Journal, 2019, 17, 1431-1445.	8.3	120
13	CRISPRâ€“Cas12b enables efficient plant genome engineering. Nature Plants, 2020, 6, 202-208.	9.3	116
14	Expanding the scope of plant genome engineering with Cas12a orthologs and highly multiplexable editing systems. Nature Communications, 2021, 12, 1944.	12.8	79
15	Ectopic Expression of DREB Transcription Factor, AtDREB1A, Confers Tolerance to Drought in Transgenic<i>Salvia miltiorrhiza</i>. Plant and Cell Physiology, 2016, 57, 1593-1609.	3.1	77
16	Effective screen of CRISPR/Cas9-induced mutants in rice by single-strand conformation polymorphism. Plant Cell Reports, 2016, 35, 1545-1554.	5.6	74
17	Knockout of the OsNAC006 Transcription Factor Causes Drought and Heat Sensitivity in Rice. International Journal of Molecular Sciences, 2020, 21, 2288.	4.1	69
18	Improved plant cytosine base editors with high editing activity, purity, and specificity. Plant Biotechnology Journal, 2021, 19, 2052-2068.	8.3	55

#	Article	IF	Citations
19	Modulating AtDREB1C Expression Improves Drought Tolerance in Salvia miltiorrhiza. Frontiers in Plant Science, 2017, 8, 52.	3.6	52
20	Arabidopsis DREB1B in transgenic Salvia miltiorrhiza increased tolerance to drought stress without stunting growth. Plant Physiology and Biochemistry, 2016, 104, 17-28.	5.8	42
21	Bidirectional Promoter-Based CRISPR-Cas9 Systems for Plant Genome Editing. Frontiers in Plant Science, 2019, 10, 1173.	3.6	39
22	Exploring C-To-G Base Editing in Rice, Tomato, and Poplar. Frontiers in Genome Editing, 2021, 3, 756766.	5.2	32
23	CRISPRâ€Cas9 mediated <i>OsMIR168a</i> knockout reveals its pleiotropy in rice. Plant Biotechnology Journal, 2022, 20, 310-322.	8.3	32
24	Genomeâ€wide analyses of PAMâ€relaxed Cas9 genome editors reveal substantial offâ€target effects by ABE8e in rice. Plant Biotechnology Journal, 2022, 20, 1670-1682.	8.3	23
25	Intron-Based Single Transcript Unit CRISPR Systems for Plant Genome Editing. Rice, 2020, 13, 8.	4.0	22
26	CRISPRâ€BETS: a baseâ€editing design tool for generating stop codons. Plant Biotechnology Journal, 2022, 20, 499-510.	8.3	21
27	MIGS as a Simple and Efficient Method for Gene Silencing in Rice. Frontiers in Plant Science, 2018, 9, 662.	3.6	13
28	The Improvement of CRISPR-Cas9 System With Ubiquitin-Associated Domain Fusion for Efficient Plant Genome Editing. Frontiers in Plant Science, 2020, 11, 621.	3.6	12
29	Knocking Out MicroRNA Genes in Rice with CRISPR-Cas9. Methods in Molecular Biology, 2019, 1917, 109-119.	0.9	8
30	Improving a Quantitative Trait in Rice by Multigene Editing with CRISPR-Cas9. Methods in Molecular Biology, 2021, 2238, 205-219.	0.9	2
31	Construction of a Single Transcriptional Unit for Expression of Cas9 and Single-guide RNAs for Genome Editing in Plants. Bio-protocol, 2017, 7, e2546.	0.4	2