

Yiping Qi

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

7,577
citations

66315

42
h-index

56687

83
g-index

102
all docs

102
docs citations

102
times ranked

5811
citing authors

#	ARTICLE	IF	CITATIONS
1	A CRISPR/Cas9 Toolbox for Multiplexed Plant Genome Editing and Transcriptional Regulation. <i>Plant Physiology</i> , 2015, 169, 971-985.	2.3	532
2	Selection-free zinc-finger-nuclease engineering by context-dependent assembly (CoDA). <i>Nature Methods</i> , 2011, 8, 67-69.	9.0	480
3	A CRISPR-Cpf1 system for efficient genome editing and transcriptional repression in plants. <i>Nature Plants</i> , 2017, 3, 17018.	4.7	425
4	Transcription Activator-Like Effector Nucleases Enable Efficient Plant Genome Engineering. <i>Plant Physiology</i> , 2012, 161, 20-27.	2.3	407
5	The emerging and uncultivated potential of CRISPR technology in plant science. <i>Nature Plants</i> , 2019, 5, 778-794.	4.7	294
6	A large-scale whole-genome sequencing analysis reveals highly specific genome editing by both Cas9 and Cpf1 (Cas12a) nucleases in rice. <i>Genome Biology</i> , 2018, 19, 84.	3.8	230
7	BR-SIGNALING KINASE1 Physically Associates with FLAGELLIN SENSING2 and Regulates Plant Innate Immunity in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 1143-1157.	3.1	212
8	Plant genome editing with TALEN and CRISPR. <i>Cell and Bioscience</i> , 2017, 7, 21.	2.1	197
9	Activities and specificities of CRISPR/Cas9 and Cas12a nucleases for targeted mutagenesis in maize. <i>Plant Biotechnology Journal</i> , 2019, 17, 362-372.	4.1	192
10	Robust Transcriptional Activation in Plants Using Multiplexed CRISPR-Act2.0 and mTALE-Act Systems. <i>Molecular Plant</i> , 2018, 11, 245-256.	3.9	179
11	Precise plant genome editing using base editors and prime editors. <i>Nature Plants</i> , 2021, 7, 1166-1187.	4.7	172
12	Application of CRISPR-Cas12a temperature sensitivity for improved genome editing in rice, maize, and <i>Arabidopsis</i> . <i>BMC Biology</i> , 2019, 17, 9.	1.7	172
13	Improving Plant Genome Editing with High-Fidelity xCas9 and Non-canonical PAM-Targeting Cas9-NG. <i>Molecular Plant</i> , 2019, 12, 1027-1036.	3.9	159
14	CRISPR-Cas9 Based Genome Editing Reveals New Insights into MicroRNA Function and Regulation in Rice. <i>Frontiers in Plant Science</i> , 2017, 8, 1598.	1.7	150
15	Plant Prime Editors Enable Precise Gene Editing in Rice Cells. <i>Molecular Plant</i> , 2020, 13, 667-670.	3.9	148
16	A Single Transcript CRISPR-Cas9 System for Efficient Genome Editing in Plants. <i>Molecular Plant</i> , 2016, 9, 1088-1091.	3.9	144
17	Increasing frequencies of site-specific mutagenesis and gene targeting in <i>Arabidopsis</i> by manipulating DNA repair pathways. <i>Genome Research</i> , 2013, 23, 547-554.	2.4	142
18	PAM-less plant genome editing using a CRISPR-SpRY toolbox. <i>Nature Plants</i> , 2021, 7, 25-33.	4.7	140

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19	Plant Genome Editing Using FnCpf1 and LbCpf1 Nucleases at Redefined and Altered PAM Sites. <i>Molecular Plant</i> , 2018, 11, 999-1002.	3.9	136
20	Multiplex QTL editing of grain-related genes improves yield in elite rice varieties. <i>Plant Cell Reports</i> , 2019, 38, 475-485.	2.8	136
21	Efficient CRISPR/Cas9-based genome editing in carrot cells. <i>Plant Cell Reports</i> , 2018, 37, 575-586.	2.8	130
22	Targeted Mutagenesis of <i>Arabidopsis thaliana</i> Using Engineered TAL Effector Nucleases. <i>G3: Genes, Genomes, Genetics</i> , 2013, 3, 1697-1705.	0.8	127
23	Single transcript unit CRISPR 2.0 systems for robust Cas9 and Cas12a mediated plant genome editing. <i>Plant Biotechnology Journal</i> , 2019, 17, 1431-1445.	4.1	120
24	CRISPR-Cas12b enables efficient plant genome engineering. <i>Nature Plants</i> , 2020, 6, 202-208.	4.7	116
25	Development of japonica Photo-Sensitive Genic Male Sterile Rice Lines by Editing Carbon Starved Anther Using CRISPR/Cas9. <i>Journal of Genetics and Genomics</i> , 2016, 43, 415-419.	1.7	99
26	CRISPR-Act3.0 for highly efficient multiplexed gene activation in plants. <i>Nature Plants</i> , 2021, 7, 942-953.	4.7	99
27	An efficient <i>Agrobacterium</i> -mediated transient transformation of <i>Arabidopsis</i> . <i>Plant Journal</i> , 2012, 69, 713-719.	2.8	95
28	Physical Association of <i>Arabidopsis</i> Hypersensitive Induced Reaction Proteins (HIRs) with the Immune Receptor RPS2. <i>Journal of Biological Chemistry</i> , 2011, 286, 31297-31307.	1.6	94
29	Physical association of pattern-triggered immunity (PTI) and effector-triggered immunity (ETI) immune receptors in <i>Arabidopsis</i> . <i>Molecular Plant Pathology</i> , 2011, 12, 702-708.	2.0	91
30	Purification of low-abundance <i>Arabidopsis</i> plasma membrane protein complexes and identification of candidate components. <i>Plant Journal</i> , 2009, 57, 932-944.	2.8	85
31	Expanding the scope of plant genome engineering with Cas12a orthologs and highly multiplexable editing systems. <i>Nature Communications</i> , 2021, 12, 1944.	5.8	79
32	CRISPR ribonucleoprotein-mediated genetic engineering in plants. <i>Plant Communications</i> , 2021, 2, 100168.	3.6	77
33	Construct design for CRISPR/Cas-based genome editing in plants. <i>Trends in Plant Science</i> , 2021, 26, 1133-1152.	4.3	76
34	Effective screen of CRISPR/Cas9-induced mutants in rice by single-strand conformation polymorphism. <i>Plant Cell Reports</i> , 2016, 35, 1545-1554.	2.8	74
35	Rapid Evolution of Manifold CRISPR Systems for Plant Genome Editing. <i>Frontiers in Plant Science</i> , 2016, 7, 1683.	1.7	73
36	Targeted Deletion and Inversion of Tandemly Arrayed Genes in <i>Arabidopsis thaliana</i> Using Zinc Finger Nucleases. <i>G3: Genes, Genomes, Genetics</i> , 2013, 3, 1707-1715.	0.8	72

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37	CRISPR/Cas9 for plant genome editing: accomplishments, problems and prospects. <i>Plant Cell Reports</i> , 2016, 35, 1417-1427.	2.8	72
38	ERECTA is required for protection against heat-stress in the AS1 / AS2 pathway to regulate adaxial?abaxial leaf polarity in Arabidopsis. <i>Planta</i> , 2004, 219, 270-276.	1.6	68
39	Boosting plant genome editing with a versatile CRISPR-Combo system. <i>Nature Plants</i> , 2022, 8, 513-525.	4.7	60
40	Improved plant cytosine base editors with high editing activity, purity, and specificity. <i>Plant Biotechnology Journal</i> , 2021, 19, 2052-2068.	4.1	55
41	CRISPR/dCas-mediated transcriptional and epigenetic regulation in plants. <i>Current Opinion in Plant Biology</i> , 2021, 60, 101980.	3.5	50
42	Breeding customâ€designed crops for improved drought adaptation. <i>Genetics & Genomics Next</i> , 2021, 2, e202100017.	0.8	48
43	A Putative RNA-Binding Protein Positively Regulates Salicylic Acidâ€™Mediated Immunity in <i>Arabidopsis</i> . <i>Molecular Plant-Microbe Interactions</i> , 2010, 23, 1573-1583.	1.4	45
44	Multiplexed Transcriptional Activation or Repression in Plants Using CRISPR-dCas9-Based Systems. <i>Methods in Molecular Biology</i> , 2017, 1629, 167-184.	0.4	45
45	CRISPRâ€™Cas12a enables efficient biallelic gene targeting in rice. <i>Plant Biotechnology Journal</i> , 2020, 18, 1351-1353.	4.1	42
46	CRISPR/Cas9â€™mediated genome editing for wheat grain quality improvement. <i>Plant Biotechnology Journal</i> , 2021, 19, 1684-1686.	4.1	41
47	Bidirectional Promoter-Based CRISPR-Cas9 Systems for Plant Genome Editing. <i>Frontiers in Plant Science</i> , 2019, 10, 1173.	1.7	39
48	Efficient multiplex genome editing by CRISPR/Cas9 in common wheat. <i>Plant Biotechnology Journal</i> , 2021, 19, 427-429.	4.1	38
49	Base Editing Landscape Extends to Perform Transversion Mutation. <i>Trends in Genetics</i> , 2020, 36, 899-901.	2.9	37
50	Efficient deletion of multiple circle RNA loci by CRISPRâ€™Cas9 reveals <i>Os06circ02797</i> as a putative sponge for <i>OsMIR408</i> in rice. <i>Plant Biotechnology Journal</i> , 2021, 19, 1240-1252.	4.1	37
51	Highly efficient Câ€™toâ€™T and Aâ€™toâ€™G base editing in a <i>Populus</i> hybrid. <i>Plant Biotechnology Journal</i> , 2021, 19, 1086-1088.	4.1	32
52	Exploring C-To-G Base Editing in Rice, Tomato, and Poplar. <i>Frontiers in Genome Editing</i> , 2021, 3, 756766.	2.7	32
53	CRISPRâ€™Cas9 mediated <i>OsMIR168a</i> knockout reveals its pleiotropy in rice. <i>Plant Biotechnology Journal</i> , 2022, 20, 310-322.	4.1	32
54	Expanding plant genome-editing scope by an engineered iSpyMacCas9 system that targets A-rich PAM sequences. <i>Plant Communications</i> , 2021, 2, 100101.	3.6	31

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55	<scp>SIS</scp>8, a putative mitogen-activated protein kinase kinase kinase, regulates sugar-resistant seedling development in Arabidopsis. <i>Plant Journal</i> , 2014, 77, 577-588.	2.8	30
56	Pathways to de novo domestication of crop wild relatives. <i>Plant Physiology</i> , 2022, 188, 1746-1756.	2.3	27
57	Genome- and transcriptome-wide off-target analyses of an improved cytosine base editor. <i>Plant Physiology</i> , 2021, 187, 73-87.	2.3	25
58	Genome-wide analyses of PAM-relaxed Cas9 genome editors reveal substantial off-target effects by ABE8e in rice. <i>Plant Biotechnology Journal</i> , 2022, 20, 1670-1682.	4.1	23
59	Histone H2AX and the small RNA pathway modulate both non-homologous end-joining and homologous recombination in plants. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2016, 783, 9-14.	0.4	22
60	Intron-Based Single Transcript Unit CRISPR Systems for Plant Genome Editing. <i>Rice</i> , 2020, 13, 8.	1.7	22
61	ZFN, TALEN and CRISPR-Cas9 mediated homology directed gene insertion in Arabidopsis: A disconnect between somatic and germinal cells. <i>Journal of Genetics and Genomics</i> , 2018, 45, 681-684.	1.7	21
62	CRISPR-BETS: a base-editing design tool for generating stop codons. <i>Plant Biotechnology Journal</i> , 2022, 20, 499-510.	4.1	21
63	Highly Efficient Genome Editing in Plant Protoplasts by Ribonucleoprotein Delivery of CRISPR-Cas12a Nucleases. <i>Frontiers in Genome Editing</i> , 2022, 4, 780238.	2.7	21
64	Plant Gene Regulation Using Multiplex CRISPR-dCas9 Artificial Transcription Factors. <i>Methods in Molecular Biology</i> , 2018, 1676, 197-214.	0.4	18
65	CRISPR enables directed evolution in plants. <i>Genome Biology</i> , 2019, 20, 83.	3.8	17
66	Heritable base-editing in <i>Arabidopsis</i> using RNA viral vectors. <i>Plant Physiology</i> , 2022, 189, 1920-1924.	2.3	17
67	CRISPR-Cas nucleases and base editors for plant genome editing. <i>ABIOTECH</i> , 2020, 1, 74-87.	1.8	16
68	Membrane microdomain may be a platform for immune signaling. <i>Plant Signaling and Behavior</i> , 2012, 7, 454-456.	1.2	15
69	Rapid Construction of Multiplexed CRISPR-Cas9 Systems for Plant Genome Editing. <i>Methods in Molecular Biology</i> , 2017, 1578, 291-307.	0.4	15
70	Inhibition of Carotenoid Biosynthesis by CRISPR/Cas9 Triggers Cell Wall Remodelling in Carrot. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6516.	1.8	14
71	Plant prime editing goes prime. <i>Nature Plants</i> , 2022, 8, 20-22.	4.7	13
72	Highly efficient CRISPR systems for loss-of-function and gain-of-function research in pear calli. <i>Horticulture Research</i> , 2022, 9, .	2.9	12

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73	Plant Gene Knockout and Knockdown by CRISPR-Cpf1 (Cas12a) Systems. <i>Methods in Molecular Biology</i> , 2019, 1917, 245-256.	0.4	11
74	Generating Photoperiod-Sensitive Genic Male Sterile Rice Lines with CRISPR/Cas9. <i>Methods in Molecular Biology</i> , 2019, 1917, 97-107.	0.4	8
75	Knocking Out MicroRNA Genes in Rice with CRISPR-Cas9. <i>Methods in Molecular Biology</i> , 2019, 1917, 109-119.	0.4	8
76	Development of a RAD-Seq Based DNA Polymorphism Identification Software, AgroMarker Finder, and Its Application in Rice Marker-Assisted Breeding. <i>PLoS ONE</i> , 2016, 11, e0147187.	1.1	7
77	Tailor-Made Mutations in Arabidopsis Using Zinc Finger Nucleases. <i>Methods in Molecular Biology</i> , 2014, 1062, 193-209.	0.4	7
78	CRISPR Cas9- and Cas12a-mediated gusA editing in transgenic blueberry. <i>Plant Cell, Tissue and Organ Culture</i> , 0, , 1.	1.2	7
79	Plant-Based Biosensors for Detecting CRISPR-Mediated Genome Engineering. <i>ACS Synthetic Biology</i> , 2021, 10, 3600-3603.	1.9	7
80	High Efficient Genome Modification by Designed Zinc Finger Nuclease. , 2015, , 39-53.		5
81	Genome editing is revolutionizing biology. <i>Cell and Bioscience</i> , 2017, 7, 35.	2.1	5
82	Rapid Vector Construction and Assessment of BE3 and Target-AID C to T Base Editing Systems in Rice Protoplasts. <i>Methods in Molecular Biology</i> , 2021, 2238, 95-113.	0.4	5
83	Promoter analysis of the sweet potato ADP-glucose pyrophosphorylase gene IbAGP1 in <i>Nicotiana tabacum</i> . <i>Plant Cell Reports</i> , 2015, 34, 1873-1884.	2.8	4
84	Analysis of Off-Target Mutations in CRISPR-Edited Rice Plants Using Whole-Genome Sequencing. <i>Methods in Molecular Biology</i> , 2021, 2238, 145-172.	0.4	4
85	Plant genome engineering from lab to field—a Keystone Symposia report. <i>Annals of the New York Academy of Sciences</i> , 2021, 1506, 35-54.	1.8	4
86	Prime editor integrase systems boost targeted DNA insertion and beyond. <i>Trends in Biotechnology</i> , 2022, 40, 907-909.	4.9	4
87	CRISPR-Act2.0: An Improved Multiplexed System for Plant Transcriptional Activation. <i>Methods in Molecular Biology</i> , 2019, 1917, 83-93.	0.4	3
88	Purification of Resistance Protein Complexes Using a Biotinylated Affinity (HPB) Tag. <i>Methods in Molecular Biology</i> , 2011, 712, 21-30.	0.4	3
89	Diverse Systems for Efficient Sequence Insertion and Replacement in Precise Plant Genome Editing. <i>BioDesign Research</i> , 2020, 2020, .	0.8	3
90	Expanding the targeting scope of FokI-Cas nuclease systems with SpRY and Mb2Cas12a. <i>Biotechnology Journal</i> , 2022, 17, e2100571.	1.8	3

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91	Efficient Multiplexed CRISPR-Cas12a Genome Editing in Plants. Springer Protocols, 2021, , 41-56.	0.1	2
92	Single Transcript Unit CRISPR 2.0 Systems for Genome Editing in Rice. Methods in Molecular Biology, 2021, 2238, 193-204.	0.4	2
93	Improving a Quantitative Trait in Rice by Multigene Editing with CRISPR-Cas9. Methods in Molecular Biology, 2021, 2238, 205-219.	0.4	2
94	Editorial overview: Advancing basic plant research and crop improvement through cutting-edge biotechnologies. Current Opinion in Plant Biology, 2021, 60, 102069.	3.5	2
95	of TALEN and for Plant Genome Engineering. Methods in Molecular Biology, 2021, 2264, 207-218.	0.4	1
96	CRISPR-Act3.0-Based Highly Efficient Multiplexed Gene Activation in Plants. Current Protocols, 2022, 2, e365.	1.3	1
97	Assembly and Assessment of Prime Editing Systems for Precise Genome Editing in Plants. Springer Protocols, 2021, , 83-101.	0.1	0