Caixia Gao

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12,952 113 49 112 h-index g-index citations papers 125 17,321 15.7 7.27 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
112	Targeted genome modification of crop plants using a CRISPR-Cas system. <i>Nature Biotechnology</i> , 2013 , 31, 686-8	44.5	1266
111	Simultaneous editing of three homoeoalleles in hexaploid bread wheat confers heritable resistance to powdery mildew. <i>Nature Biotechnology</i> , 2014 , 32, 947-51	44.5	1161
110	CRISPR/Cas Genome Editing and Precision Plant Breeding in Agriculture. <i>Annual Review of Plant Biology</i> , 2019 , 70, 667-697	30.7	554
109	Precise base editing in rice, wheat and maize with a Cas9-cytidine deaminase fusion. <i>Nature Biotechnology</i> , 2017 , 35, 438-440	44.5	508
108	Efficient DNA-free genome editing of bread wheat using CRISPR/Cas9 ribonucleoprotein complexes. <i>Nature Communications</i> , 2017 , 8, 14261	17.4	503
107	Efficient and transgene-free genome editing in wheat through transient expression of CRISPR/Cas9 DNA or RNA. <i>Nature Communications</i> , 2016 , 7, 12617	17.4	465
106	Genome editing in rice and wheat using the CRISPR/Cas system. <i>Nature Protocols</i> , 2014 , 9, 2395-410	18.8	455
105	Targeted mutagenesis in Zea mays using TALENs and the CRISPR/Cas system. <i>Journal of Genetics and Genomics</i> , 2014 , 41, 63-8	4	435
104	The OsSPL16-GW7 regulatory module determines grain shape and simultaneously improves rice yield and grain quality. <i>Nature Genetics</i> , 2015 , 47, 949-54	36.3	349
103	Cytosine, but not adenine, base editors induce genome-wide off-target mutations in rice. <i>Science</i> , 2019 , 364, 292-295	33.3	324
102	Prime genome editing in rice and wheat. <i>Nature Biotechnology</i> , 2020 , 38, 582-585	44.5	299
101	Breeding crops to feed 10 billion. <i>Nature Biotechnology</i> , 2019 , 37, 744-754	44.5	296
100	Precision genome engineering and agriculture: opportunities and regulatory challenges. <i>PLoS Biology</i> , 2014 , 12, e1001877	9.7	288
99	Expanded base editing in rice and wheat using a Cas9-adenosine deaminase fusion. <i>Genome Biology</i> , 2018 , 19, 59	18.3	264
98	Progress and prospects in plant genome editing. <i>Nature Plants</i> , 2017 , 3, 17107	11.5	264
97	Establishing a CRISPR-Cas-like immune system conferring DNA virus resistance in plants. <i>Nature Plants</i> , 2015 , 1, 15144	11.5	252
96	Domestication of wild tomato is accelerated by genome editing. Nature Biotechnology, 2018,	44.5	249

(2014-2017)

95	High-efficiency gene targeting in hexaploid wheat using DNA replicons and CRISPR/Cas9. <i>Plant Journal</i> , 2017 , 89, 1251-1262	6.9	226
94	Simultaneous modification of three homoeologs of TaEDR1 by genome editing enhances powdery mildew resistance in wheat. <i>Plant Journal</i> , 2017 , 91, 714-724	6.9	223
93	Gene replacements and insertions in rice by intron targeting using CRISPR-Cas9. <i>Nature Plants</i> , 2016 , 2, 16139	11.5	221
92	Creation of fragrant rice by targeted knockout of the OsBADH2 gene using TALEN technology. <i>Plant Biotechnology Journal</i> , 2015 , 13, 791-800	11.6	204
91	Rapid and efficient gene modification in rice and Brachypodium using TALENs. <i>Molecular Plant</i> , 2013 , 6, 1365-8	14.4	200
90	Efficient C-to-T base editing in plants using a fusion of nCas9 and human APOBEC3A. <i>Nature Biotechnology</i> , 2018 ,	44.5	194
89	Brachypodium as a model for the grasses: today and the future. <i>Plant Physiology</i> , 2011 , 157, 3-13	6.6	190
88	Applications and potential of genome editing in crop improvement. <i>Genome Biology</i> , 2018 , 19, 210	18.3	188
87	Applications of CRISPR-Cas in agriculture and plant biotechnology. <i>Nature Reviews Molecular Cell Biology</i> , 2020 , 21, 661-677	48.7	176
86	Horizontal gene transfer of from fungus underlies head blight resistance in wheat. <i>Science</i> , 2020 , 368,	33.3	158
85	The future of CRISPR technologies in agriculture. <i>Nature Reviews Molecular Cell Biology</i> , 2018 , 19, 275-2	746 .7	135
84	Targeted, random mutagenesis of plant genes with dual cytosine and adenine base editors. <i>Nature Biotechnology</i> , 2020 , 38, 875-882	44.5	133
83	Genome editing of upstream open reading frames enables translational control in plants. <i>Nature Biotechnology</i> , 2018 , 36, 894-898	44.5	128
82	Construction of a Genome-Wide Mutant Library in Rice Using CRISPR/Cas9. <i>Molecular Plant</i> , 2017 , 10, 1238-1241	14.4	127
81	Analysis of the functions of TaGW2 homoeologs in wheat grain weight and protein content traits. <i>Plant Journal</i> , 2018 , 94, 857-866	6.9	123
80	Generation of herbicide tolerance traits and a new selectable marker in wheat using base editing. <i>Nature Plants</i> , 2019 , 5, 480-485	11.5	116
79	Genome editing of bread wheat using biolistic delivery of CRISPR/Cas9 in vitro transcripts or ribonucleoproteins. <i>Nature Protocols</i> , 2018 , 13, 413-430	18.8	116
78	Targeted genome modification technologies and their applications in crop improvements. <i>Plant Cell Reports</i> , 2014 , 33, 575-83	5.1	114

77	Genome engineering for crop improvement and future agriculture. <i>Cell</i> , 2021 , 184, 1621-1635	56.2	96
76	Hi-TOM: a platform for high-throughput tracking of mutations induced by CRISPR/Cas systems. <i>Science China Life Sciences</i> , 2019 , 62, 1-7	8.5	95
75	Current and future editing reagent delivery systems for plant genome editing. <i>Science China Life Sciences</i> , 2017 , 60, 490-505	8.5	87
74	A route to de novo domestication of wild allotetraploid rice. <i>Cell</i> , 2021 , 184, 1156-1170.e14	56.2	81
73	A CRISPR way for accelerating improvement of food crops. <i>Nature Food</i> , 2020 , 1, 200-205	14.4	79
72	Perfectly matched 20-nucleotide guide RNA sequences enable robust genome editing using high-fidelity SpCas9 nucleases. <i>Genome Biology</i> , 2017 , 18, 191	18.3	79
71	A View lease of lifeVFnCpf1 possesses DNA cleavage activity for genome editing in human cells. <i>Nucleic Acids Research</i> , 2017 , 45, 11295-11304	20.1	76
70	TALENs: customizable molecular DNA scissors for genome engineering of plants. <i>Journal of Genetics and Genomics</i> , 2013 , 40, 271-9	4	75
69	Targeted mutagenesis in wheat microspores using CRISPR/Cas9. Scientific Reports, 2018, 8, 6502	4.9	72
68	Generation of thermosensitive male-sterile maize by targeted knockout of the ZmTMS5 gene. <i>Journal of Genetics and Genomics</i> , 2017 , 44, 465-468	4	67
67	O-GlcNAc-mediated interaction between VER2 and TaGRP2 elicits TaVRN1 mRNA accumulation during vernalization in winter wheat. <i>Nature Communications</i> , 2014 , 5, 4572	17.4	67
66	High-efficiency prime editing with optimized, paired pegRNAs in plants. <i>Nature Biotechnology</i> , 2021 , 39, 923-927	44.5	61
65	Prime editing efficiently generates W542L and S621I double mutations in two ALS genes in maize. <i>Genome Biology</i> , 2020 , 21, 257	18.3	59
64	Transcriptome Association Identifies Regulators of Wheat Spike Architecture. <i>Plant Physiology</i> , 2017 , 175, 746-757	6.6	56
63	Fine-tuning the amylose content of rice by precise base editing of the Wx gene. <i>Plant Biotechnology Journal</i> , 2021 , 19, 11-13	11.6	47
62	Rationally Designed APOBEC3B Cytosine Base Editors with Improved Specificity. <i>Molecular Cell</i> , 2020 , 79, 728-740.e6	17.6	45
61	Genotyping genome-edited mutations in plants using CRISPR ribonucleoprotein complexes. <i>Plant Biotechnology Journal</i> , 2018 , 16, 2053-2062	11.6	44
60	From Genetic Stock to Genome Editing: Gene Exploitation in Wheat. <i>Trends in Biotechnology</i> , 2018 , 36, 160-172	15.1	40

59	Conferring DNA virus resistance with high specificity in plants using virus-inducible genome-editing system. <i>Genome Biology</i> , 2018 , 19, 197	18.3	38
58	Manipulating mRNA splicing by base editing in plants. <i>Science China Life Sciences</i> , 2018 , 61, 1293-1300	8.5	37
57	Robust genome editing of CRISPR-Cas9 at NAG PAMs in rice. Science China Life Sciences, 2018, 61, 122-1	255 5	36
56	KTN80 confers precision to microtubule severing by specific targeting of katanin complexes in plant cells. <i>EMBO Journal</i> , 2017 , 36, 3435-3447	13	35
55	Comparative analysis of transgenic tall fescue (Festuca arundinacea Schreb.) plants obtained by Agrobacterium-mediated transformation and particle bombardment. <i>Plant Cell Reports</i> , 2008 , 27, 1601-	.9 ^{.1}	32
54	Genome-wide specificity of prime editors in plants. <i>Nature Biotechnology</i> , 2021 , 39, 1292-1299	44.5	32
53	MicroRNA393 is involved in nitrogen-promoted rice tillering through regulation of auxin signal transduction in axillary buds. <i>Scientific Reports</i> , 2016 , 6, 32158	4.9	29
52	An Uncanonical CCCH-Tandem Zinc-Finger Protein Represses Secondary Wall Synthesis and Controls Mechanical Strength in Rice. <i>Molecular Plant</i> , 2018 , 11, 163-174	14.4	27
51	A chromatin loop represses WUSCHEL expression in Arabidopsis. <i>Plant Journal</i> , 2018 , 94, 1083-1097	6.9	26
50	Modulating chromatin accessibility by transactivation and targeting proximal dsgRNAs enhances Cas9 editing efficiency in vivo. <i>Genome Biology</i> , 2019 , 20, 145	18.3	26
49	Fine-tuning sugar content in strawberry. <i>Genome Biology</i> , 2020 , 21, 230	18.3	26
48	Roadmap for Accelerated Domestication of an Emerging Perennial Grain Crop. <i>Trends in Plant Science</i> , 2020 , 25, 525-537	13.1	25
47	Generation of large numbers of transgenic Kentucky bluegrass (Poa pratensis L.) plants following biolistic gene transfer. <i>Plant Cell Reports</i> , 2006 , 25, 19-25	5.1	25
46	Manipulating gene translation in plants by CRISPR-Cas9-mediated genome editing of upstream open reading frames. <i>Nature Protocols</i> , 2020 , 15, 338-363	18.8	23
45	Precise, predictable multi-nucleotide deletions in rice and wheat using APOBEC-Cas9. <i>Nature Biotechnology</i> , 2020 , 38, 1460-1465	44.5	21
44	High-fidelity SaCas9 identified by directional screening in human cells. <i>PLoS Biology</i> , 2020 , 18, e3000747	7 9.7	21
43	Biolistic genetic transformation of a wide range of Chinese elite wheat (Triticum aestivum L.) varieties. <i>Journal of Genetics and Genomics</i> , 2015 , 42, 39-42	4	20
42	An efficient TALEN mutagenesis system in rice. <i>Methods</i> , 2014 , 69, 2-8	4.6	20

41	Prospects for the accelerated improvement of the resilient crop quinoa. <i>Journal of Experimental Botany</i> , 2020 , 71, 5333-5347	7	19
40	Genome editing in crops: from bench to field. <i>National Science Review</i> , 2015 , 2, 13-15	10.8	18
39	Generating broad-spectrum tolerance to ALS-inhibiting herbicides in rice by base editing. <i>Science China Life Sciences</i> , 2021 , 64, 1624-1633	8.5	18
38	SWISS: multiplexed orthogonal genome editing in plants with a Cas9 nickase and engineered CRISPR RNA scaffolds. <i>Genome Biology</i> , 2020 , 21, 141	18.3	18
37	The CRISPR-Cas toolbox and gene editing technologies <i>Molecular Cell</i> , 2021 ,	17.6	15
36	Boosting activity of high-fidelity CRISPR/Cas9 variants using a tRNA-processing system in human cells. <i>Journal of Biological Chemistry</i> , 2019 , 294, 9308-9315	5.4	14
35	Genome-edited powdery mildew resistance in wheat without growth penalties Nature, 2022,	50.4	14
34	Highly efficient heritable genome editing in wheat using an RNA virus and bypassing tissue culture. <i>Molecular Plant</i> , 2021 , 14, 1787-1798	14.4	14
33	Targeted mutagenesis in ryegrass (Lolium spp.) using the CRISPR/Cas9 system. <i>Plant Biotechnology Journal</i> , 2020 , 18, 1854-1856	11.6	12
32	Comparison between Agrobacterium-mediated and direct gene transfer using the gene gun. <i>Methods in Molecular Biology</i> , 2013 , 940, 3-16	1.4	12
31	Biolistic Delivery of CRISPR/Cas9 with Ribonucleoprotein Complex in Wheat. <i>Methods in Molecular Biology</i> , 2019 , 1917, 327-335	1.4	11
30	CRISPR editing-mediated antiviral immunity: a versatile source of resistance to combat plant virus infections. <i>Science China Life Sciences</i> , 2019 , 62, 1246-1249	8.5	9
29	Shortening the sgRNA-DNA interface enables SpCas9 and eSpCas9(1.1) to nick the target DNA strand. <i>Science China Life Sciences</i> , 2020 , 63, 1619-1630	8.5	8
28	Genome-edited crops: how to move them from laboratory to market. <i>Frontiers of Agricultural Science and Engineering</i> , 2020 , 7, 181	1.7	8
27	The vernalization-induced long non-coding RNA VAS functions with the transcription factor TaRF2b to promote TaVRN1 expression for flowering in hexaploid wheat. <i>Molecular Plant</i> , 2021 , 14, 1525-1538	14.4	8
26	Wheat AGAMOUS LIKE 6 transcription factors function in stamen development by regulating the expression of. <i>Development (Cambridge)</i> , 2019 , 146,	6.6	7
25	Precision plant breeding using genome editing technologies. <i>Transgenic Research</i> , 2019 , 28, 53-55	3.3	7
24	Agrobacterium-mediated transformation of meadow fescue (Festuca pratensis Huds.). <i>Plant Cell Reports</i> , 2009 , 28, 1431-7	5.1	7

23	An Efficient Targeted Mutagenesis System Using CRISPR/Cas in Monocotyledons. <i>Current Protocols in Plant Biology</i> , 2016 , 1, 329-344	2.8	7
22	Development and characterization of marker-free and transgene insertion site-defined transgenic wheat with improved grain storability and fatty acid content. <i>Plant Biotechnology Journal</i> , 2020 , 18, 129-	-146	7
21	Generation of Stable Transgenic Rice (Oryza sativa L.) by Agrobacterium-Mediated Transformation. <i>Current Protocols in Plant Biology</i> , 2016 , 1, 235-246	2.8	6
20	Recent advances in DNA-free editing and precise base editing in plants. <i>Emerging Topics in Life Sciences</i> , 2017 , 1, 161-168	3.5	5
19	An unbiased method for evaluating the genome-wide specificity of base editors in rice. <i>Nature Protocols</i> , 2021 , 16, 431-457	18.8	5
18	Targeted Mutagenesis in Hexaploid Bread Wheat Using the TALEN and CRISPR/Cas Systems. <i>Methods in Molecular Biology</i> , 2017 , 1679, 169-185	1.4	4
17	Comparison of three selectable marker genes for transformation of tall fescue (Festuca arundinacea Schreb.) plants by particle bombardment. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2011 , 47, 658-666	2.3	4
16	Transcriptional Repression of TaNOX10 by TaWRKY19 Compromises ROS Generation and Enhances Wheat Susceptibility to Stripe Rust <i>Plant Cell</i> , 2022 ,	11.6	4
15	Genome editing in plants with MAD7 nuclease. Journal of Genetics and Genomics, 2021, 48, 444-451	4	4
14	Transient expression of a TaGRF4-TaGIF1 complex stimulates wheat regeneration and improves genome editing. <i>Science China Life Sciences</i> , 2021 , 1	8.5	4
13	An engineered prime editor with enhanced editing efficiency in plants Nature Biotechnology, 2022,	44.5	4
12	Identification and characterization of Sr22b, a new allele of the wheat stem rust resistance gene Sr22 effective against the Ug99 race group. <i>Plant Biotechnology Journal</i> , 2021 ,	11.6	3
11	Prime editing efficiently generates W542L and S621I double mutations in two ALS genes in maize		3
10	The wheat cytosolic glutamine synthetaseGS1.1modulates N assimilation and spike development by characterizing CRISPR-edited mutants		3
9	Gene Replacement by Intron Targeting with CRISPR-Cas9. Methods in Molecular Biology, 2019, 1917, 285	1296	3
8	Preface to the special topic on genome editing research in China. <i>National Science Review</i> , 2019 , 6, 389-3	3908	2
7	Developing CRISPR Technology in Major Crop Plants 2015 , 145-159		2
6	The MYB family transcription factor TuODORANT1 from Triticum urartu and the homolog TaODORANT1 from Triticum aestivum inhibit seed storage protein synthesis in wheat. <i>Plant Biotechnology Journal</i> , 2021 , 19, 1863-1877	11.6	2

5	Genetic manipulations of TaARE1 boost nitrogen utilization and grain yield in wheat. <i>Journal of Genetics and Genomics</i> , 2021 , 48, 950-953	4	2
4	Genome-wide identification of seed storage protein gene regulators in wheat through coexpression analysis. <i>Plant Journal</i> , 2021 ,	6.9	1
3	Hi-TOM: a platform for high-throughput tracking of mutations induced by CRISPR/Cas systems		1
2	The florigen interactor BdES43 represses flowering in the model temperate grass Brachypodium distachyon. <i>Plant Journal</i> , 2020 , 102, 262-275	6.9	1
1	Protoplast Isolation and Transfection in Wheat <i>Methods in Molecular Biology</i> , 2022 , 2464, 131-141	1.4	0