

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

188 papers	18,872 citations	62 h-index	136 g-index
208 ext. papers	22,760 ext. citations	14.8 avg, IF	7.23 L-index

#	Paper	IF	Citations
188	Targeted genome engineering in human cells with the Cas9 RNA-guided endonuclease. <i>Nature Biotechnology</i> , 2013 , 31, 230-2	44.5	1369
187	Highly efficient RNA-guided genome editing in human cells via delivery of purified Cas9 ribonucleoproteins. <i>Genome Research</i> , 2014 , 24, 1012-9	9.7	1085
186	Cas-OFFinder: a fast and versatile algorithm that searches for potential off-target sites of Cas9 RNA-guided endonucleases. <i>Bioinformatics</i> , 2014 , 30, 1473-5	7.2	1015
185	Analysis of off-target effects of CRISPR/Cas-derived RNA-guided endonucleases and nickases. <i>Genome Research</i> , 2014 , 24, 132-41	9.7	966
184	A guide to genome engineering with programmable nucleases. <i>Nature Reviews Genetics</i> , 2014 , 15, 321-34	30.1	853
183	DNA-free genome editing in plants with preassembled CRISPR-Cas9 ribonucleoproteins. <i>Nature Biotechnology</i> , 2015 , 33, 1162-4	44.5	709
182	Digenome-seq: genome-wide profiling of CRISPR-Cas9 off-target effects in human cells. <i>Nature Methods</i> , 2015 , 12, 237-43, 1 p following 243	21.6	652
181	Correction of a pathogenic gene mutation in human embryos. <i>Nature</i> , 2017 , 548, 413-419	50.4	567
180	Genome-wide analysis reveals specificities of Cpf1 endonucleases in human cells. <i>Nature Biotechnology</i> , 2016 , 34, 863-8	44.5	445
179	In vivo genome editing with a small Cas9 orthologue derived from <i>Campylobacter jejuni</i> . <i>Nature Communications</i> , 2017 , 8, 14500	17.4	368
178	DNA-Free Genetically Edited Grapevine and Apple Protoplast Using CRISPR/Cas9 Ribonucleoproteins. <i>Frontiers in Plant Science</i> , 2016 , 7, 1904	6.2	351
177	Targeted genome editing in human cells with zinc finger nucleases constructed via modular assembly. <i>Genome Research</i> , 2009 , 19, 1279-88	9.7	344
176	Knockout mice created by TALEN-mediated gene targeting. <i>Nature Biotechnology</i> , 2013 , 31, 23-4	44.5	295
175	A library of TAL effector nucleases spanning the human genome. <i>Nature Biotechnology</i> , 2013 , 31, 251-8	44.5	289
174	CRISPR/Cpf1-mediated DNA-free plant genome editing. <i>Nature Communications</i> , 2017 , 8, 14406	17.4	274
173	Highly efficient RNA-guided base editing in mouse embryos. <i>Nature Biotechnology</i> , 2017 , 35, 435-437	44.5	269
172	Microhomology-based choice of Cas9 nuclease target sites. <i>Nature Methods</i> , 2014 , 11, 705-6	21.6	258

171	Adenine base editing in mouse embryos and an adult mouse model of Duchenne muscular dystrophy. <i>Nature Biotechnology</i> , 2018 , 36, 536-539	44.5	238
170	CRISPR/Cas9-induced knockout and knock-in mutations in <i>Chlamydomonas reinhardtii</i> . <i>Scientific Reports</i> , 2016 , 6, 27810	4.9	227
169	Directed evolution of CRISPR-Cas9 to increase its specificity. <i>Nature Communications</i> , 2018 , 9, 3048	17.4	220
168	Highly efficient gene knockout in mice and zebrafish with RNA-guided endonucleases. <i>Genome Research</i> , 2014 , 24, 125-31	9.7	215
167	Functional Correction of Large Factor VIII Gene Chromosomal Inversions in Hemophilia A Patient-Derived iPSCs Using CRISPR-Cas9. <i>Cell Stem Cell</i> , 2015 , 17, 213-20	18	214
166	Genome editing reveals a role for OCT4 in human embryogenesis. <i>Nature</i> , 2017 , 550, 67-73	50.4	210
165	Getting a handhold on DNA: design of poly-zinc finger proteins with femtomolar dissociation constants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 2812-7	11.5	209
164	Targeted chromosomal deletions in human cells using zinc finger nucleases. <i>Genome Research</i> , 2010 , 20, 81-9	9.7	206
163	Heritable gene knockout in <i>Caenorhabditis elegans</i> by direct injection of Cas9-sgRNA ribonucleoproteins. <i>Genetics</i> , 2013 , 195, 1177-80	4	199
162	Cas-analyzer: an online tool for assessing genome editing results using NGS data. <i>Bioinformatics</i> , 2017 , 33, 286-288	7.2	198
161	DNA-free two-gene knockout in <i>Chlamydomonas reinhardtii</i> via CRISPR-Cas9 ribonucleoproteins. <i>Scientific Reports</i> , 2016 , 6, 30620	4.9	188
160	Genome-wide target specificities of CRISPR RNA-guided programmable deaminases. <i>Nature Biotechnology</i> , 2017 , 35, 475-480	44.5	168
159	Surrogate reporters for enrichment of cells with nuclease-induced mutations. <i>Nature Methods</i> , 2011 , 8, 941-3	21.6	164
158	Human zinc fingers as building blocks in the construction of artificial transcription factors. <i>Nature Biotechnology</i> , 2003 , 21, 275-80	44.5	163
157	Precision genome engineering through adenine base editing in plants. <i>Nature Plants</i> , 2018 , 4, 427-431	11.5	158
156	Ribonuclease S-peptide as a carrier in fusion proteins. <i>Protein Science</i> , 1993 , 2, 348-56	6.3	154
155	Targeted mutagenesis in mice by electroporation of Cpf1 ribonucleoproteins. <i>Nature Biotechnology</i> , 2016 , 34, 807-8	44.5	151
154	Cas-Designer: a web-based tool for choice of CRISPR-Cas9 target sites. <i>Bioinformatics</i> , 2015 , 31, 4014-6	7.2	149

153	Measuring and Reducing Off-Target Activities of Programmable Nucleases Including CRISPR-Cas9. <i>Molecules and Cells</i> , 2015 , 38, 475-81	3.5	144
152	Genome-wide target specificities of CRISPR-Cas9 nucleases revealed by multiplex Digenome-seq. <i>Genome Research</i> , 2016 , 26, 406-15	9.7	141
151	Targeted chromosomal duplications and inversions in the human genome using zinc finger nucleases. <i>Genome Research</i> , 2012 , 22, 539-48	9.7	137
150	Site-directed mutagenesis in <i>Petunia × hybrida</i> protoplast system using direct delivery of purified recombinant Cas9 ribonucleoproteins. <i>Plant Cell Reports</i> , 2016 , 35, 1535-44	5.1	131
149	Phenotypic alteration of eukaryotic cells using randomized libraries of artificial transcription factors. <i>Nature Biotechnology</i> , 2003 , 21, 1208-14	44.5	127
148	Site-directed mutagenesis in <i>Arabidopsis thaliana</i> using dividing tissue-targeted RGEN of the CRISPR/Cas system to generate heritable null alleles. <i>Planta</i> , 2015 , 241, 271-84	4.7	121
147	Precision genome engineering with programmable DNA-nicking enzymes. <i>Genome Research</i> , 2012 , 22, 1327-33	9.7	117
146	CRISPR RNAs trigger innate immune responses in human cells. <i>Genome Research</i> , 2018 ,	9.7	113
145	Targeted gene knockout in chickens mediated by TALENs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 12716-21	11.5	113
144	Targeted inversion and reversion of the blood coagulation factor 8 gene in human iPS cells using TALENs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 9253-8	11.5	113
143	Genome surgery using Cas9 ribonucleoproteins for the treatment of age-related macular degeneration. <i>Genome Research</i> , 2017 , 27, 419-426	9.7	100
142	Genotyping with CRISPR-Cas-derived RNA-guided endonucleases. <i>Nature Communications</i> , 2014 , 5, 3157	17.4	100
141	Genome-wide target specificity of CRISPR RNA-guided adenine base editors. <i>Nature Biotechnology</i> , 2019 , 37, 430-435	44.5	98
140	Surrogate reporter-based enrichment of cells containing RNA-guided Cas9 nuclease-induced mutations. <i>Nature Communications</i> , 2014 , 5, 3378	17.4	92
139	CRISPR germline engineering--the community speaks. <i>Nature Biotechnology</i> , 2015 , 33, 478-86	44.5	91
138	Gene inactivation using the CRISPR/Cas9 system in the nematode <i>Pristionchus pacificus</i> . <i>Development Genes and Evolution</i> , 2015 , 225, 55-62	1.8	88
137	Efficient delivery of nuclease proteins for genome editing in human stem cells and primary cells. <i>Nature Protocols</i> , 2015 , 10, 1842-59	18.8	88
136	TALENs and ZFNs are associated with different mutation signatures. <i>Nature Methods</i> , 2013 , 10, 185	21.6	80

135	Genome editing with modularly assembled zinc-finger nucleases. <i>Nature Methods</i> , 2010 , 7, 91; author reply 91-2	21.6	79
134	Direct observation of DNA target searching and cleavage by CRISPR-Cas12a. <i>Nature Communications</i> , 2018 , 9, 2777	17.4	72
133	Mechanism of ribonuclease cytotoxicity. <i>Journal of Biological Chemistry</i> , 1995 , 270, 31097-102	5.4	72
132	Preassembled zinc-finger arrays for rapid construction of ZFNs. <i>Nature Methods</i> , 2011 , 8, 7	21.6	71
131	Web-based design and analysis tools for CRISPR base editing. <i>BMC Bioinformatics</i> , 2018 , 19, 542	3.6	70
130	Evaluating and Enhancing Target Specificity of Gene-Editing Nucleases and Deaminases. <i>Annual Review of Biochemistry</i> , 2019 , 88, 191-220	29.1	69
129	Long Terminal Repeat CRISPR-CAR-Coupled "Universal" T Cells Mediate Potent Anti-leukemic Effects. <i>Molecular Therapy</i> , 2018 , 26, 1215-1227	11.7	68
128	Structural roles of guide RNAs in the nuclease activity of Cas9 endonuclease. <i>Nature Communications</i> , 2016 , 7, 13350	17.4	68
127	TALEN-based knockout library for human microRNAs. <i>Nature Structural and Molecular Biology</i> , 2013 , 20, 1458-64	17.6	64
126	Genome editing comes of age. <i>Nature Protocols</i> , 2016 , 11, 1573-8	18.8	60
125	Structural basis for the biological activities of bovine seminal ribonuclease. <i>Journal of Biological Chemistry</i> , 1995 , 270, 10525-30	5.4	59
124	Lipid-gold-nanoparticle hybrid-based gene delivery. <i>Small</i> , 2008 , 4, 1651-5	11	57
123	Non-GMO genetically edited crop plants. <i>Trends in Biotechnology</i> , 2015 , 33, 489-91	15.1	56
122	Design of TATA box-binding protein/zinc finger fusions for targeted regulation of gene expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997 , 94, 3616-20	11.5	56
121	CUT-PCR: CRISPR-mediated, ultrasensitive detection of target DNA using PCR. <i>Oncogene</i> , 2017 , 36, 6823-6829	36.29	55
120	Selective disruption of an oncogenic mutant allele by CRISPR/Cas9 induces efficient tumor regression. <i>Nucleic Acids Research</i> , 2017 , 45, 7897-7908	20.1	54
119	Improving CRISPR Genome Editing by Engineering Guide RNAs. <i>Trends in Biotechnology</i> , 2019 , 37, 870-881	15.1	52
118	CRISPR-LbCpf1 prevents choroidal neovascularization in a mouse model of age-related macular degeneration. <i>Nature Communications</i> , 2018 , 9, 1855	17.4	52

- 117 Rescue of high-specificity Cas9 variants using sgRNAs with matched 5Snucleotides. *Genome Biology*, **2017**, 18, 218 18.3 52
- 116 Adenine base editors catalyze cytosine conversions in human cells. *Nature Biotechnology*, **2019**, 37, 1145-1148 44.5 51
- 115 Magnetic separation and antibiotics selection enable enrichment of cells with ZFN/TALEN-induced mutations. *PLoS ONE*, **2013**, 8, e56476 3.7 50
- 114 Bypassing GMO regulations with CRISPR gene editing. *Nature Biotechnology*, **2016**, 34, 1014-1015 44.5 49
- 113 Zinc finger proteins as designer transcription factors. *Journal of Biological Chemistry*, **2000**, 275, 8742-8 5.4 48
- 112 Precision genome engineering through adenine and cytosine base editing. *Nature Plants*, **2018**, 4, 148-151 11.5 47
- 111 Novel cancer antiangiotherapy using the VEGF promoter-targeted artificial zinc-finger protein and oncolytic adenovirus. *Molecular Therapy*, **2008**, 16, 1033-40 11.7 47
- 110 DIG-seq: a genome-wide CRISPR off-target profiling method using chromatin DNA. *Genome Research*, **2018**, 28, 1894-1900 9.7 47
- 109 CRISPR/Cas9-mediated editing of 1-aminocyclopropane-1-carboxylate oxidase1 enhances Petunia flower longevity. *Plant Biotechnology Journal*, **2020**, 18, 287-297 11.6 46
- 108 Functional Rescue of Dystrophin Deficiency in Mice Caused by Frameshift Mutations Using Campylobacter jejuni Cas9. *Molecular Therapy*, **2018**, 26, 1529-1538 11.7 45
- 107 Transcriptional repression by zinc finger peptides. Exploring the potential for applications in gene therapy. *Journal of Biological Chemistry*, **1997**, 272, 29795-800 5.4 45
- 106 CRISPR/Cas9 searches for a protospacer adjacent motif by lateral diffusion. *EMBO Journal*, **2019**, 38, 1320-1330 13 45
- 105 CRISPR-Cas9-mediated therapeutic editing of ameliorates the disease phenotypes in a mouse model of Leber congenital amaurosis. *Science Advances*, **2019**, 5, eaax1210 14.3 44
- 104 A simple, flexible and high-throughput cloning system for plant genome editing via CRISPR-Cas system. *Journal of Integrative Plant Biology*, **2016**, 58, 705-12 8.3 44
- 103 The road ahead in genetics and genomics. *Nature Reviews Genetics*, **2020**, 21, 581-596 30.1 43
- 102 Fine-Tuning Next-Generation Genome Editing Tools. *Trends in Biotechnology*, **2016**, 34, 562-574 15.1 43
- 101 Efficient genome editing in hematopoietic stem cells with helper-dependent Ad5/35 vectors expressing site-specific endonucleases under microRNA regulation. *Molecular Therapy - Methods and Clinical Development*, **2015**, 1, 14057 6.4 41
- 100 Phenotypic alteration and target gene identification using combinatorial libraries of zinc finger proteins in prokaryotic cells. *Journal of Bacteriology*, **2005**, 187, 5496-9 3.5 41

99	Generation of cloned adult muscular pigs with myostatin gene mutation by genetic engineering. <i>RSC Advances</i> , 2017 , 7, 12541-12549	3.7	39
98	RNA-guided genome editing in Drosophila with the purified Cas9 protein. <i>G3: Genes, Genomes, Genetics</i> , 2014 , 4, 1291-5	3.2	36
97	Failure to detect DNA-guided genome editing using Natronobacterium gregoryi Argonaute. <i>Nature Biotechnology</i> , 2016 , 35, 17-18	44.5	35
96	Cooperativity and specificity of Cys2His2 zinc finger protein-DNA interactions: a molecular dynamics simulation study. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 7662-71	3.4	33
95	Imaging inflammation using an activated macrophage probe with Slc18b1 as the activation-selective gating target. <i>Nature Communications</i> , 2019 , 10, 1111	17.4	32
94	Long-Term Effects of In Vivo Genome Editing in the Mouse Retina Using Campylobacter jejuni Cas9 Expressed via Adeno-Associated Virus. <i>Molecular Therapy</i> , 2019 , 27, 130-136	11.7	32
93	dCas9-mediated Nanoelectrokinetic Direct Detection of Target Gene for Liquid Biopsy. <i>Nano Letters</i> , 2018 , 18, 7642-7650	11.5	32
92	Recent advances in genome editing of stem cells for drug discovery and therapeutic application. <i>Pharmacology & Therapeutics</i> , 2020 , 209, 107501	13.9	31
91	Fusion guide RNAs for orthogonal gene manipulation with Cas9 and Cpf1. <i>Nature Communications</i> , 2017 , 8, 1723	17.4	31
90	Dibromobimane as a fluorescent crosslinking reagent. <i>Analytical Biochemistry</i> , 1995 , 225, 174-6	3.1	30
89	Hematopoietic Signaling Mechanism Revealed from a Stem/Progenitor Cell Cistrome. <i>Molecular Cell</i> , 2015 , 59, 62-74	17.6	29
88	Cas-Database: web-based genome-wide guide RNA library design for gene knockout screens using CRISPR-Cas9. <i>Bioinformatics</i> , 2016 , 32, 2017-23	7.2	28
87	Cyclase-associated protein 1 is a binding partner of proprotein convertase subtilisin/kexin type-9 and is required for the degradation of low-density lipoprotein receptors by proprotein convertase subtilisin/kexin type-9. <i>European Heart Journal</i> , 2020 , 41, 239-252	9.5	28
86	CRISPR/Cas9-mediated gene knockout screens and target identification via whole-genome sequencing uncover host genes required for picornavirus infection. <i>Journal of Biological Chemistry</i> , 2017 , 292, 10664-10671	5.4	27
85	Ma et al. reply. <i>Nature</i> , 2018 , 560, E10-E23	50.4	27
84	ISSCR Guidelines for Stem Cell Research and Clinical Translation: The 2021 update. <i>Stem Cell Reports</i> , 2021 , 16, 1398-1408	8	27
83	Arrayed CRISPR screen with image-based assay reliably uncovers host genes required for coxsackievirus infection. <i>Genome Research</i> , 2018 , 28, 859-868	9.7	26
82	Hepatitis C virus entry is impaired by claudin-1 downregulation in diacylglycerol acyltransferase-1-deficient cells. <i>Journal of Virology</i> , 2014 , 88, 9233-44	6.6	26

81	Suppression of vascular endothelial growth factor expression at the transcriptional and post-transcriptional levels. <i>Nucleic Acids Research</i> , 2005 , 33, e74	20.1	26
80	Custom DNA-binding proteins and artificial transcription factors. <i>Current Topics in Medicinal Chemistry</i> , 2003 , 3, 645-57	3	25
79	Analysis of the effect of aging on the response to hypoxia by cDNA microarray. <i>Mechanisms of Ageing and Development</i> , 2003 , 124, 941-9	5.6	25
78	Mouse genetics: catalogue and scissors. <i>BMB Reports</i> , 2012 , 45, 686-92	5.5	25
77	Mitochondrial DNA editing in mice with DddA-TALE fusion deaminases. <i>Nature Communications</i> , 2021 , 12, 1190	17.4	25
76	Targeted knockout of a chemokine-like gene increases anxiety and fear responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E1041-E1050	11.5	24
75	Peptide tags for a dual affinity fusion system. <i>Analytical Biochemistry</i> , 1994 , 219, 165-6	3.1	24
74	Response to "Unexpected mutations after CRISPR-Cas9 editing in vivo". <i>Nature Methods</i> , 2018 , 15, 239-240	4.6	22
73	Identification and use of zinc finger transcription factors that increase production of recombinant proteins in yeast and mammalian cells. <i>Biotechnology Progress</i> , 2005 , 21, 664-70	2.8	22
72	CRISPR-Pass: Gene Rescue of Nonsense Mutations Using Adenine Base Editors. <i>Molecular Therapy</i> , 2019 , 27, 1364-1371	11.7	21
71	Myofibroblast in the ligamentum flavum hypertrophic activity. <i>European Spine Journal</i> , 2017 , 26, 2021-2030	2.9	20
70	Artificial zinc finger fusions targeting Sp1-binding sites and the trans-activator-responsive element potently repress transcription and replication of HIV-1. <i>Journal of Biological Chemistry</i> , 2005 , 280, 21545-52	5.4	20
69	Targeted genome engineering via zinc finger nucleases. <i>Plant Biotechnology Reports</i> , 2011 , 5, 9-17	2.5	19
68	Artificial transcription factors increase production of recombinant antibodies in Chinese hamster ovary cells. <i>Biotechnology Letters</i> , 2006 , 28, 9-15	3	19
67	Digenome-seq web tool for profiling CRISPR specificity. <i>Nature Methods</i> , 2017 , 14, 548-549	21.6	18
66	Targeted Genome Editing for Crop Improvement. <i>Plant Breeding and Biotechnology</i> , 2015 , 3, 283-290	1.2	18
65	Enrichment of cells with TALEN-induced mutations using surrogate reporters. <i>Methods</i> , 2014 , 69, 108-17	4.6	17
64	GATA Factor-Regulated Samd14 Enhancer Confers Red Blood Cell Regeneration and Survival in Severe Anemia. <i>Developmental Cell</i> , 2017 , 42, 213-225.e4	10.2	17

63	Induction and characterization of taxol-resistance phenotypes with a transiently expressed artificial transcriptional activator library. <i>Nucleic Acids Research</i> , 2004 , 32, e116	20.1	17
62	Generation of early-flowering Chinese cabbage (<i>Brassica rapa</i> spp. <i>pekinensis</i>) through CRISPR/Cas9-mediated genome editing. <i>Plant Biotechnology Reports</i> , 2019 , 13, 491-499	2.5	16
61	Therapeutic applications of CRISPR RNA-guided genome editing. <i>Briefings in Functional Genomics</i> , 2017 , 16, 38-45	4.9	16
60	A misfolded but active dimer of bovine seminal ribonuclease. <i>FEBS Journal</i> , 1994 , 224, 109-14		16
59	Chloroplast and mitochondrial DNA editing in plants. <i>Nature Plants</i> , 2021 , 7, 899-905	11.5	16
58	Knockout of the Ribonuclease Inhibitor Gene Leaves Human Cells Vulnerable to Secretory Ribonucleases. <i>Biochemistry</i> , 2016 , 55, 6359-6362	3.2	14
57	Transduction of artificial transcriptional regulatory proteins into human cells. <i>Nucleic Acids Research</i> , 2008 , 36, e103	20.1	14
56	PE-Designer and PE-Analyzer: web-based design and analysis tools for CRISPR prime editing. <i>Nucleic Acids Research</i> , 2021 , 49, W499-W504	20.1	14
55	Toward a functional annotation of the human genome using artificial transcription factors. <i>Genome Research</i> , 2003 , 13, 2708-16	9.7	13
54	CRISPR-Cas9 Screening of Kaposi's Sarcoma-Associated Herpesvirus-Transformed Cells Identifies XPO1 as a Vulnerable Target of Cancer Cells. <i>MBio</i> , 2019 , 10,	7.8	12
53	SIRT1-mediated downregulation of p27Kip1 is essential for overcoming contact inhibition of Kaposi's sarcoma-associated herpesvirus transformed cells. <i>Oncotarget</i> , 2016 , 7, 75698-75711	3.3	12
52	FREQUENT GENE CONVERSION IN HUMAN EMBRYOS INDUCED BY DOUBLE STRAND BREAKS		12
51	Apnancreatic pigs cloned using Pdx1-disrupted fibroblasts created via TALEN-mediated mutagenesis. <i>Oncotarget</i> , 2017 , 8, 115480-115489	3.3	11
50	Genome engineering in human cells. <i>Methods in Enzymology</i> , 2014 , 546, 93-118	1.7	10
49	Analysis of targeted chromosomal deletions induced by zinc finger nucleases. <i>Cold Spring Harbor Protocols</i> , 2010 , 2010, pdb.prot5477	1.2	9
48	DNA-dependent RNA cleavage by the <i>Natronobacterium gregoryi</i> Argonaute		9
47	Efficient PRNP deletion in bovine genome using gene-editing technologies in bovine cells. <i>Prion</i> , 2015 , 9, 278-91	2.3	8
46	Ribonucleases endowed with specific toxicity for spermatogenic layers. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1997 , 118, 881-888	2.3	8

45	One-step selection of artificial transcription factors using an in vivo screening system. <i>Molecules and Cells</i> , 2006 , 21, 376-80	3.5	8
44	A homozygous Keap1-knockout human embryonic stem cell line generated using CRISPR/Cas9 mediates gene targeting. <i>Stem Cell Research</i> , 2017 , 19, 52-54	1.6	7
43	In situ functional dissection of RNA cis-regulatory elements by multiplex CRISPR-Cas9 genome engineering. <i>Nature Communications</i> , 2017 , 8, 2109	17.4	7
42	Site-specific DNA excision via engineered zinc finger nucleases. <i>Trends in Biotechnology</i> , 2010 , 28, 445-6	15.1	7
41	CRISPR-sub: Analysis of DNA substitution mutations caused by CRISPR-Cas9 in human cells. <i>Computational and Structural Biotechnology Journal</i> , 2020 , 18, 1686-1694	6.8	7
40	Genome-wide specificity of dCpf1 cytidine base editors. <i>Nature Communications</i> , 2020 , 11, 4072	17.4	7
39	Adenine base editor engineering reduces editing of bystander cytosines. <i>Nature Biotechnology</i> , 2021 , 39, 1426-1433	44.5	7
38	Adenine Base Editor Ribonucleoproteins Delivered by Lentivirus-Like Particles Show High On-Target Base Editing and Undetectable RNA Off-Target Activities. <i>CRISPR Journal</i> , 2021 , 4, 69-81	2.5	7
37	Small-molecule inhibitors of histone deacetylase improve CRISPR-based adenine base editing. <i>Nucleic Acids Research</i> , 2021 , 49, 2390-2399	20.1	6
36	Towards therapeutic base editing. <i>Nature Medicine</i> , 2018 , 24, 1493-1495	50.5	6
35	Protein Kinase A Catalytic Subunit Is a Molecular Switch that Promotes the Pro-tumoral Function of Macrophages. <i>Cell Reports</i> , 2020 , 31, 107643	10.6	5
34	Artificial transcription regulator as a tool for improvement of cellular property in <i>Saccharomyces cerevisiae</i> . <i>Chemical Engineering Science</i> , 2013 , 103, 42-49	4.4	5
33	Engineering of GAL1 promoter-driven expression system with artificial transcription factors. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 351, 412-7	3.4	5
32	Questioning unexpected CRISPR off-target mutations in vivo		5
31	CRISPR-Cas12a with an oAd Induces Precise and Cancer-Specific Genomic Reprogramming of EGFR and Efficient Tumor Regression. <i>Molecular Therapy</i> , 2020 , 28, 2286-2296	11.7	5
30	The efficacy of CRISPR-mediated cytosine base editing with the RPS5a promoter in <i>Arabidopsis thaliana</i> . <i>Scientific Reports</i> , 2021 , 11, 8087	4.9	5
29	Generation of targeted homozygosity in the genome of human induced pluripotent stem cells. <i>PLoS ONE</i> , 2019 , 14, e0225740	3.7	5
28	Web-Based CRISPR Toolkits: Cas-OFFinder, Cas-Designer, and Cas-Analyzer. <i>Methods in Molecular Biology</i> , 2021 , 2162, 23-33	1.4	5

27	Generation of a Nrf2 homozygous knockout human embryonic stem cell line using CRISPR/Cas9. <i>Stem Cell Research</i> , 2017 , 19, 46-48	1.6	4
26	Microbial warfare against viruses. <i>Science</i> , 2018 , 359, 993	33.3	4
25	Structural insights into the apo-structure of Cpf1 protein from <i>Francisella novicida</i> . <i>Biochemical and Biophysical Research Communications</i> , 2018 , 498, 775-781	3.4	4
24	Identifying genome-wide off-target sites of CRISPR RNA-guided nucleases and deaminases with Digenome-seq. <i>Nature Protocols</i> , 2021 , 16, 1170-1192	18.8	4
23	Voices of biotech. <i>Nature Biotechnology</i> , 2016 , 34, 270-5	44.5	3
22	Sometimes you're the scooper, and sometimes you get scooped: How to turn both into something good. <i>PLoS Biology</i> , 2018 , 16, e2006843	9.7	3
21	Production of CMAH Knockout Preimplantation Embryos Derived From Immortalized Porcine Cells Via TALE Nucleases. <i>Molecular Therapy - Nucleic Acids</i> , 2014 , 3, e166	10.7	3
20	ISM1 protects lung homeostasis via cell-surface GRP78-mediated alveolar macrophage apoptosis.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	3
19	Production of Mutated Porcine Embryos Using Zinc Finger Nucleases and a Reporter-based Cell Enrichment System. <i>Asian-Australasian Journal of Animal Sciences</i> , 2014 , 27, 324-9	2.4	3
18	Machine learning finds Cas9-edited genotypes. <i>Nature Biomedical Engineering</i> , 2018 , 2, 892-893	19	3
17	Production of MSTN-mutated cattle without exogenous gene integration using CRISPR-Cas9. <i>Biotechnology Journal</i> , 2021 , e2100198	5.6	3
16	A zero-background CRISPR binary vector system for construction of sgRNA libraries in plant functional genomics applications. <i>Plant Biotechnology Reports</i> , 2019 , 13, 543-551	2.5	2
15	Visualizing Microglia with a Fluorescence Turn-On Ugt1a7c Substrate. <i>Angewandte Chemie</i> , 2019 , 131, 8056-8060	3.6	2
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13	Web-based design and analysis tools for CRISPR base editing		2
12	Guidelines for C to T base editing in plants: base-editing window, guide RNA length, and efficient promoter. <i>Plant Biotechnology Reports</i> , 2019 , 13, 533-541	2.5	1
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