# Feng Zhang

List of Publications by Year
in descending order

Source: //exaly.com/author-pdf/4090220/publications.pdf

Version: 2025-02-01

| | | | |
|---|---|---|---|
| 179 papers | 61,765 citations | 2393 92 h-index | 2322 188 g-index |
| 221 all docs | 221 docs citations | 221 times ranked | 71645 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Prime editing in plants: prospects and challenges. Journal of Experimental Botany, 2024, 75, 5344-5356. | 5.1 | 5 |
| 2 | Dual activities of an X-family DNA polymerase regulate CRISPR-induced insertional mutagenesis across species. Nature Communications, 2024, 15, . | 14.1 | 1 |
| 3 | An extensible vector toolkit and parts library for advanced engineering of plant genomes. Plant Genome, 2023, 16, . | 3.5 | 6 |
| 4 | Efficient protein tagging and cis-regulatory element engineering via precise and directional oligonucleotide-based targeted insertion in plants. Plant Cell, 2023, 35, 2722-2735. | 7.6 | 14 |
| 5 | Genome editing and chromosome engineering in plants. Plant Genome, 2023, 16, . | 3.5 | 2 |
| 6 | Modulation of Immune Reaction in Hydrodynamic Gene Therapy for Hemophilia A. Human Gene Therapy, 2022, 33, 404-420. | 3.4 | 3 |
| 7 | Modified strict sperm morphology threshold aids in the clinical selection of conventional in vitro fertilization (IVF) or intracytoplasmic sperm injection (ICSI). Asian Journal of Andrology, 2022, 24, 62-66. | 2.1 | 4 |
| 8 | scMAGIC: accurately annotating single cells using two rounds of reference-based classification. Nucleic Acids Research, 2022, 50, e43-e43. | 16.2 | 10 |
| 9 | Efficiency, Specificity and Temperature Sensitivity of Cas9 and Cas12a RNPs for DNA-free Genome Editing in Plants. Frontiers in Genome Editing, 2022, 3, . | 4.8 | 16 |
| 10 | CDC42 controlled apical-basal polarity regulates intestinal stem cell to transit amplifying cell fate transition via YAP-EGF-mTOR signaling. Cell Reports, 2022, 38, 110009. | 6.4 | 21 |
| 11 | Improved and Flexible HDR Editing by Targeting Introns in iPSCs. Stem Cell Reviews and Reports, 2022, 18, 1822-1833. | 3.9 | 6 |
| 12 | CRISPR DNA- and RNP-Mediated Genome Editing via Nicotiana benthamiana Protoplast Transformation and Regeneration. Methods in Molecular Biology, 2022, , 65-82. | 0.0 | 5 |
| 13 | Protoplast Isolation, Transfection, and Gene Editing for Soybean (Glycine max). Methods in Molecular Biology, 2022, , 173-186. | 0.0 | 5 |
| 14 | Basic Phenotyping of Male Fertility from 2019 to 2020 at the Human Sperm Bank of Fudan University. Phenomics, 2022, , . | 5.5 | 0 |
| 15 | Whole-Exome Sequencing Identifies the VHL Mutation (c.262T > C, p.Try88Arg) in Non-Obstructive Azoospermia-Associated Cystic Renal Cell Carcinoma. Current Oncology, 2022, 29, 2376-2384. | 3.2 | 3 |
| 16 | POSH regulates assembly of the NMDAR/PSD-95/Shank complex and synaptic function. Cell Reports, 2022, 39, 110642. | 6.4 | 11 |
| 17 | Genomeâ€wide loss of <scp>CHH</scp> methylation with limited transcriptome changes in Setaria viridis DOMAINS REARRANGED METHYLTRANSFERASE (<scp>DRM</scp>) mutants. Plant Journal, 2022, 111, 103-116. | 6.1 | 4 |
| 18 | â€œProgressive motilityâ€•in elucidating novel genetic causes of male infertility. Asian Journal of Andrology, 2022, 24, 229-230. | 2.1 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Evaluation of inactivated COVID-19 vaccine on semen parameters in reproductive-age males: a retrospective cohort study. Asian Journal of Andrology, 2022, 24, 441-444. | 2.1 | 23 |
| 20 | UG/Abi: a highly diverse family of prokaryotic reverse transcriptases associated with defense functions. Nucleic Acids Research, 2022, 50, 6084-6101. | 16.2 | 16 |
| 21 | Epigenetic features drastically impact CRISPRâ€“Cas9 efficacy in plants. Plant Physiology, 2022, 190, 1153-1164. | 5.4 | 38 |
| 22 | OLIG2 maintenance is not essential for diffuse intrinsic pontine glioma cell line growth but regulates tumor phenotypes. Neuro-Oncology, 2021, , . | 0.9 | 5 |
| 23 | Lipid nanoparticle-mediated codelivery of Cas9 mRNA and single-guide RNA achieves liver-specific in vivo genome editing ofAngptl3. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.7 | 257 |
| 24 | Dual modes of CRISPR-associated transposon homing. Cell, 2021, 184, 2441-2453.e18. | 35.1 | 83 |
| 25 | A cellular and spatial map of the choroid plexus across brain ventricles and ages. Cell, 2021, 184, 3056-3074.e21. | 35.1 | 181 |
| 26 | CRISPR-based diagnostics. Nature Biomedical Engineering, 2021, 5, 643-656. | 18.8 | 675 |
| 27 | Plant genome engineering from lab to fieldâ€”a Keystone Symposia report. Annals of the New York Academy of Sciences, 2021, 1506, 35-54. | 4.5 | 6 |
| 28 | Effective control of large deletions after double-strand breaks by homology-directed repair and dsODN insertion. Genome Biology, 2021, 22, . | 8.4 | 41 |
| 29 | Generation of hypothalamic arcuate organoids from human induced pluripotent stem cells. Cell Stem Cell, 2021, 28, 1657-1670.e10. | 17.2 | 94 |
| 30 | Adaptive responses to mTOR gene targeting in hematopoietic stem cells reveal a proliferative mechanism evasive to mTOR inhibition. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.7 | 23 |
| 31 | Editorial: New Genome Editing Tools and Resources: Enabling Gene Discovery and Functional Genomics. Frontiers in Genome Editing, 2021, 3, . | 4.8 | 1 |
| 32 | Nanomedicine potentiates mild photothermal therapy for tumor ablation. Asian Journal of Pharmaceutical Sciences, 2021, 16, 738-761. | 9.3 | 74 |
| 33 | CRISPR/Cas9 Delivery System Engineering for Genome Editing in Therapeutic Applications. Pharmaceutics, 2021, 13, 1649. | 5.2 | 55 |
| 34 | Genetic analysis of osteopetrosis in Pakistani families identifies novel and known sequence variants. BMC Medical Genomics, 2021, 14, . | 1.8 | 4 |
| 35 | Cargo Genes of Tn 7 -Like Transposons Comprise an Enormous Diversity of Defense Systems, Mobile Genetic Elements, and Antibiotic Resistance Genes. MBio, 2021, 12, . | 4.5 | 38 |
| 36 | A Survey of Genome Editing Activity for 16 Cas12a Orthologs. Keio Journal of Medicine, 2020, 69, 59-65. | 1.3 | 44 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Clinical characteristics of recovered COVID-19 patients with re-detectable positive RNA test. Annals of Translational Medicine, 2020, 8, 1084-1084. | 1.8 | 122 |
| 38 | Rationally Designed APOBEC3B Cytosine Base Editors with Improved Specificity. Molecular Cell, 2020, 79, 728-740.e6. | 14.2 | 105 |
| 39 | Optimization of multiplexed CRISPR/Cas9 system for highly efficient genome editing in Setaria viridis. Plant Journal, 2020, 104, 828-838. | 6.1 | 53 |
| 40 | Î²-Sitosterol-loaded solid lipid nanoparticles ameliorate complete Freundâ€™s adjuvant-induced arthritis in rats: involvement of NF-ÐºB and HO-1/Nrf-2 pathway. Drug Delivery, 2020, 27, 1329-1341. | 7.9 | 74 |
| 41 | Clinical validation of a Cas13-based assay for the detection of SARS-CoV-2 RNA. Nature Biomedical Engineering, 2020, 4, 1140-1149. | 18.8 | 455 |
| 42 | Detection of SARS-CoV-2 with SHERLOCK One-Pot Testing. New England Journal of Medicine, 2020, 383, 1492-1494. | 25.5 | 531 |
| 43 | CTCF-mediated chromatin looping in EGR2 regulation and SUZ12 recruitment critical for peripheral myelination and repair. Nature Communications, 2020, 11, . | 14.1 | 31 |
| 44 | The COVID-19 XPRIZE and the need for scalable, fast, and widespread testing. Nature Biotechnology, 2020, 38, 1021-1024. | 18.1 | 59 |
| 45 | Review: Computational Identification of Repeat-containing Proteins and Systems â€” R0/PR2. , 2020, , . | | 0 |
| 46 | Rapid and accurate species identification for ecological studies and monitoring using CRISPRâ€based SHERLOCK. Molecular Ecology Resources, 2020, 20, 961-970. | 4.8 | 37 |
| 47 | Building an international consortium for tracking coronavirus health status. Nature Medicine, 2020, 26, 1161-1165. | 25.6 | 19 |
| 48 | Highly Parallel Profiling of Cas9 Variant Specificity. Molecular Cell, 2020, 78, 794-800.e8. | 14.2 | 131 |
| 49 | CRISPR-Based Therapeutic Genome Editing: Strategies and InÂVivo Delivery by AAV Vectors. Cell, 2020, 181, 136-150. | 35.1 | 320 |
| 50 | A novel hemizygous loss-of-function mutation in ADGRG2 causes male infertility with congenital bilateral absence of the vas deferens. Journal of Assisted Reproduction and Genetics, 2020, 37, 1421-1429. | 2.4 | 14 |
| 51 | â€œResponse to the letter to the editor â€œConcerns regarding the potentially causal role of FANCA heterozygous variants in human primary ovarian insufficiencyâ€â€. Human Genetics, 2020, 140, 695-697. | 3.1 | 2 |
| 52 | Rapid SARS-CoV-2 testing in primary material based on a novel multiplex RT-LAMP assay. PLoS ONE, 2020, 15, e0238612. | 2.5 | 55 |
| 53 | Are We There Yet? How and When Specific Biotechnologies Will Improve Human Health. Biotechnology Journal, 2019, 14, . | 3.4 | 7 |
| 54 | CRISPR Tools for Systematic Studies of RNA Regulation. Cold Spring Harbor Perspectives in Biology, 2019, 11, a035386. | 7.4 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | CarboxypeptidaseÂA4 promotes migration and invasion of lung cancer cells, and is closely associated with lymph node metastasis. Precision Radiation Oncology, 2019, 3, 44-51. | 2.1 | 0 |
| 56 | Modulating gene translational control through genome editing. National Science Review, 2019, 6, 391-391. | 10.0 | 2 |
| 57 | DNA Microscopy: Optics-free Spatio-genetic Imaging by a Stand-Alone Chemical Reaction. Cell, 2019, 178, 229-241.e16. | 35.1 | 73 |
| 58 | Nucleic Acid Detection of Plant Genes Using CRISPR-Cas13. CRISPR Journal, 2019, 2, 165-171. | 3.7 | 93 |
| 59 | Optical Pooled Screens in Human Cells. Cell, 2019, 179, 787-799.e17. | 35.1 | 152 |
| 60 | Programmable Inhibition and Detection of RNA Viruses Using Cas13. Molecular Cell, 2019, 76, 826-837.e11. | 14.2 | 291 |
| 61 | Engineering of CRISPR-Cas12b for human genome editing. Nature Communications, 2019, 10, . | 14.1 | 270 |
| 62 | Structural basis for the promiscuous PAM recognition by Corynebacterium diphtheriae Cas9. Nature Communications, 2019, 10, . | 14.1 | 31 |
| 63 | Unexpected connections between type VI-B CRISPR-Cas systems, bacterial natural competence, ubiquitin signaling network and DNA modification through a distinct family of membrane proteins. FEMS Microbiology Letters, 2019, 366, . | 1.9 | 12 |
| 64 | High-Resolution Structure of Cas13b and Biochemical Characterization of RNA Targeting and Cleavage. Cell Reports, 2019, 26, 3741-3751.e5. | 6.4 | 94 |
| 65 | BRCA2 in Ovarian Development and Function. New England Journal of Medicine, 2019, 380, 1086-1087. | 25.5 | 40 |
| 66 | Single-Cell Transcriptomics Uncovers Glial Progenitor Diversity and Cell Fate Determinants during Development and Gliomagenesis. Cell Stem Cell, 2019, 24, 707-723.e8. | 17.2 | 145 |
| 67 | Deficiency of the Fanconi anemia E2 ubiqitin conjugase UBE2T only partially abrogates Alu-mediated recombination in a new model of homology dependent recombination. Nucleic Acids Research, 2019, 47, 3503-3520. | 16.2 | 10 |
| 68 | Genome-Wide Off-Target Analysis in CRISPR-Cas9 Modified Mice and Their Offspring. G3: Genes, Genomes, Genetics, 2019, 9, 3645-3651. | 2.0 | 19 |
| 69 | The CAFA challenge reports improved protein function prediction and new functional annotations for hundreds of genes through experimental screens. Genome Biology, 2019, 20, . | 8.4 | 279 |
| 70 | Curing hemophilia A by NHEJ-mediated ectopic F8 insertion in the mouse. Genome Biology, 2019, 20, . | 8.4 | 47 |
| 71 | MEOX1 Promotes Tumor Progression and Predicts Poor Prognosis in Human Non-Small-Cell Lung Cancer. International Journal of Medical Sciences, 2019, 16, 68-74. | 2.8 | 13 |
| 72 | Response to Brosens et al. Genetics in Medicine, 2018, 20, 1479-1480. | 2.3 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Effects of 3D culturing conditions on the transcriptomic profile of stem-cell-derived neurons. Nature Biomedical Engineering, 2018, 2, 540-554. | 18.8 | 76 |
| 74 | Conferring DNA virus resistance with high specificity in plants using virus-inducible genome-editing system. Genome Biology, 2018, 19, . | 8.4 | 62 |
| 75 | MEKK3 coordinates with FBW7 to regulate WDR62 stability and neurogenesis. PLoS Biology, 2018, 16, e2006613. | 5.2 | 14 |
| 76 | Clinical outcomes of arthroscopic synovectomy for adolescent or young adult patients with advanced haemophilic arthropathy. Experimental and Therapeutic Medicine, 2018, , . | 2.0 | 4 |
| 77 | m6A facilitates hippocampus-dependent learning and memory through YTHDF1. Nature, 2018, 563, 249-253. | 40.1 | 371 |
| 78 | Large De Novo Microdeletion in Epilepsy with Intellectual and Developmental Disabilities, with a Systems Biology Analysis. Advances in Neurobiology, 2018, , 247-266. | 0.0 | 11 |
| 79 | LGR5, a novel functional glioma stem cell marker, promotes EMT by activating the Wnt/Î²-catenin pathway and predicts poor survival of glioma patients. Journal of Experimental and Clinical Cancer Research, 2018, 37, . | 11.5 | 135 |
| 80 | High-Level Precise Knockin of iPSCs by Simultaneous Reprogramming and Genome Editing of Human Peripheral Blood Mononuclear Cells. Stem Cell Reports, 2018, 10, 1821-1834. | 4.7 | 19 |
| 81 | Synthetic genomes engineered by SCRaMbLEing. Science China Life Sciences, 2018, 61, 975-977. | 5.9 | 8 |
| 82 | Comparison of the clinical effects of arthroscopic surgery vs. open surgery for gradeÃ¯Â¿Â½II gluteal muscle contracture in adults. Experimental and Therapeutic Medicine, 2018, , . | 2.0 | 4 |
| 83 | Discovery of proteins associated with a predefined genomic locus via dCas9â€“APEX-mediated proximity labeling. Nature Methods, 2018, 15, 437-439. | 14.5 | 118 |
| 84 | Dual Requirement of CHD8 for Chromatin Landscape Establishment and Histone Methyltransferase Recruitment to Promote CNS Myelination and Repair. Developmental Cell, 2018, 45, 753-768.e8. | 7.8 | 99 |
| 85 | ADVANCES IN GENOME EDITING TECHNOLOGIES. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, TPL. | 0.0 | 0 |
| 86 | Diversity and evolution of class 2 CRISPRâ€“Cas systems. Nature Reviews Microbiology, 2017, 15, 169-182. | 27.5 | 755 |
| 87 | SnapShot: Class 2 CRISPR-Cas Systems. Cell, 2017, 168, 328-328.e1. | 35.1 | 143 |
| 88 | Transcription control by the ENL YEATS domain in acute leukaemia. Nature, 2017, 543, 270-274. | 40.1 | 240 |
| 89 | Chd8 Mutation Leads to Autistic-like Behaviors and Impaired Striatal Circuits. Cell Reports, 2017, 19, 335-350. | 6.4 | 152 |
| 90 | BLISS is a versatile and quantitative method for genome-wide profiling of DNA double-strand breaks. Nature Communications, 2017, 8, . | 14.1 | 263 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Coupling immunity and programmed cell suicide in prokaryotes: Lifeâ€orâ€death choices. BioEssays, 2017, 39, 1-9. | 2.3 | 72 |
| 92 | Structural Basis for the Altered PAM Recognition by Engineered CRISPR-Cpf1. Molecular Cell, 2017, 67, 139-147.e2. | 14.2 | 75 |
| 93 | Diversity, classification and evolution of CRISPR-Cas systems. Current Opinion in Microbiology, 2017, 37, 67-78. | 7.7 | 1,049 |
| 94 | Crystal Structure of the Minimal Cas9 from Campylobacter jejuni Reveals the Molecular Diversity in the CRISPR-Cas9 Systems. Molecular Cell, 2017, 65, 1109-1121.e3. | 14.2 | 127 |
| 95 | IDH1 deficiency attenuates gluconeogenesis in mouse liver by impairing amino acid utilization. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 292-297. | 7.7 | 25 |
| 96 | Cas13b Is a Type VI-B CRISPR-Associated RNA-Guided RNase Differentially Regulated by Accessory Proteins Csx27 and Csx28. Molecular Cell, 2017, 65, 618-630.e7. | 14.2 | 416 |
| 97 | RNA targeting with CRISPRâ€“Cas13. Nature, 2017, 550, 280-284. | 40.1 | 1,434 |
| 98 | Implications of human genetic variation in CRISPR-based therapeutic genome editing. Nature Medicine, 2017, 23, 1095-1101. | 25.6 | 97 |
| 99 | Identification of essential genes for cancer immunotherapy. Nature, 2017, 548, 537-542. | 40.1 | 628 |
| 100 | Genome-scale activation screen identifies a lncRNA locus regulating a gene neighbourhood. Nature, 2017, 548, 343-346. | 40.1 | 311 |
| 101 | AAV-mediated direct in vivo CRISPR screen identifies functional suppressors in glioblastoma. Nature Neuroscience, 2017, 20, 1329-1341. | 12.4 | 177 |
| 102 | Structural Basis for the Canonical and Non-canonical PAM Recognition by CRISPR-Cpf1. Molecular Cell, 2017, 67, 633-645.e3. | 14.2 | 190 |
| 103 | Engineered Cpf1 variants with altered PAM specificities. Nature Biotechnology, 2017, 35, 789-792. | 18.1 | 330 |
| 104 | Massively parallel single-nucleus RNA-seq with DroNc-seq. Nature Methods, 2017, 14, 955-958. | 14.5 | 673 |
| 105 | Analysis of the Fragile X Mental Retardation 1 Premutation in Han Chinese Women Presenting with Primary Ovarian Insufficiency. Reproductive and Developmental Medicine, 2017, 1, 9. | 0.6 | 2 |
| 106 | Genome-Wide Identification of Regulatory Sequences Undergoing Accelerated Evolution in the Human Genome. Molecular Biology and Evolution, 2016, 33, 2565-2575. | 4.7 | 50 |
| 107 | Multiplexed, targeted gene editing in Nicotiana benthamiana for glycoâ€engineering and monoclonal antibody production. Plant Biotechnology Journal, 2016, 14, 533-542. | 8.9 | 85 |
| 108 | Crystal Structure of Cpf1 in Complex with Guide RNA and Target DNA. Cell, 2016, 165, 949-962. | 35.1 | 537 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Diverse evolutionary roots and mechanistic variations of the CRISPR-Cas systems. Science, 2016, 353, . | 38.2 | 496 |
| 110 | Opportunities and challenges in modeling human brain disorders in transgenic primates. Nature Neuroscience, 2016, 19, 1123-1130. | 12.4 | 107 |
| 111 | An RNA-aptamer-based two-color CRISPR labeling system. Scientific Reports, 2016, 6, . | 3.7 | 72 |
| 112 | The Clustered, Regularly Interspaced, Short Palindromic Repeats-associated Endonuclease 9 (CRISPR/Cas9)-created MDM2 T309G Mutation Enhances Vitreous-induced Expression of MDM2 and Proliferation and Survival of Cells. Journal of Biological Chemistry, 2016, 291, 16339-16347. | 2.3 | 26 |
| 113 | Mice with Shank3 Mutations Associated with ASD and Schizophrenia Display Both Shared and Distinct Defects. Neuron, 2016, 89, 147-162. | 12.8 | 243 |
| 114 | Structure and Engineering of Francisella novicida Cas9. Cell, 2016, 164, 950-961. | 35.1 | 280 |
| 115 | Hypoxia as a therapy for mitochondrial disease. Science, 2016, 352, 54-61. | 38.2 | 335 |
| 116 | Multiplex gene editing by CRISPRâ€“Cpf1 using a single crRNA array. Nature Biotechnology, 2016, 35, 31-34. | 18.1 | 685 |
| 117 | Multidimensional chemical control of CRISPRâ€“Cas9. Nature Chemical Biology, 2016, 13, 9-11. | 7.3 | 134 |
| 118 | CRISPR/Cas9 cleavage of viral DNA efficiently suppresses hepatitis B virus. Scientific Reports, 2015, 5, . | 3.7 | 252 |
| 119 | Sequence determinants of improved CRISPR sgRNA design. Genome Research, 2015, 25, 1147-1157. | 4.6 | 441 |
| 120 | Therapeutic genome editing: prospects and challenges. Nature Medicine, 2015, 21, 121-131. | 25.6 | 1,029 |
| 121 | A split-Cas9 architecture for inducible genome editing and transcription modulation. Nature Biotechnology, 2015, 33, 139-142. | 18.1 | 557 |
| 122 | Establishment and development of the personalized criteria for microscopic review following multiple automated routine urinalysis systems. Clinica Chimica Acta, 2015, 444, 221-228. | 1.2 | 18 |
| 123 | Genome-wide CRISPR Screen in a Mouse Model of Tumor Growth and Metastasis. Cell, 2015, 160, 1246-1260. | 35.1 | 655 |
| 124 | CRISPR/Cas9: Prospects and Challenges. Human Gene Therapy, 2015, 26, 409-410. | 3.4 | 37 |
| 125 | A Genome-wide CRISPR Screen in Primary Immune Cells to Dissect Regulatory Networks. Cell, 2015, 162, 675-686. | 35.1 | 336 |
| 126 | Non-transgenic Plant Genome Editing Using Purified Sequence-Specific Nucleases. Molecular Plant, 2015, 8, 1425-1427. | 17.9 | 50 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Brains, Genes, and Primates. Neuron, 2015, 86, 617-631. | 12.8 | 205 |
| 128 | In vivo genome editing using Staphylococcus aureus Cas9. Nature, 2015, 520, 186-191. | 40.1 | 2,080 |
| 129 | Correlation between frequency of non-allelic homologous recombination and homology properties: evidence from homology-mediated CNV mutations in the human genome. Human Molecular Genetics, 2015, 24, 1225-1233. | 3.1 | 12 |
| 130 | Orthogonal gene knockout and activation with a catalytically active Cas9 nuclease. Nature Biotechnology, 2015, 33, 1159-1161. | 18.1 | 203 |
| 131 | Cpf1 Is a Single RNA-Guided Endonuclease of a Class 2 CRISPR-Cas System. Cell, 2015, 163, 759-771. | 35.1 | 3,405 |
| 132 | Assessing structural variation in a personal genomeâ€"towards a human reference diploid genome. BMC Genomics, 2015, 16, . | 3.2 | 117 |
| 133 | Crystal Structure of Staphylococcus aureus Cas9. Cell, 2015, 162, 1113-1126. | 35.1 | 330 |
| 134 | BCL11A enhancer dissection by Cas9-mediated in situ saturating mutagenesis. Nature, 2015, 527, 192-197. | 40.1 | 667 |
| 135 | Crystal Structure of Cas9 in Complex with Guide RNA and Target DNA. Cell, 2014, 156, 935-949. | 35.1 | 1,622 |
| 136 | CRISPR/Cas9 for genome editing: progress, implications and challenges. Human Molecular Genetics, 2014, 23, R40-R46. | 3.1 | 480 |
| 137 | Common Genetic Variants Modulate Pathogen-Sensing Responses in Human Dendritic Cells. Science, 2014, 343, . | 38.2 | 333 |
| 138 | Genome-wide binding of the CRISPR endonuclease Cas9 in mammalian cells. Nature Biotechnology, 2014, 32, 670-676. | 18.1 | 735 |
| 139 | Global microRNA depletion suppresses tumor angiogenesis. Genes and Development, 2014, 28, 1054-1067. | 4.8 | 59 |
| 140 | Genome Editing Using Cas9 Nickases. Methods in Enzymology, 2014, , 161-174. | 1.0 | 77 |
| 141 | Perturbation of m6A Writers Reveals Two Distinct Classes of mRNA Methylation at Internal and 5â€² Sites. Cell Reports, 2014, 8, 284-296. | 6.4 | 954 |
| 142 | Improved vectors and genome-wide libraries for CRISPR screening. Nature Methods, 2014, 11, 783-784. | 14.5 | 3,588 |
| 143 | CRISPR-mediated direct mutation of cancer genes in the mouse liver. Nature, 2014, 514, 380-384. | 40.1 | 619 |
| 144 | Efficient CRISPR-Cas9â€"mediated genome editing in Plasmodium falciparum. Nature Methods, 2014, 11, 915-918. | 14.5 | 177 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | CRISPR-Cas9 Knockin Mice for Genome Editing and Cancer Modeling. Cell, 2014, 159, 440-455. | 35.1 | 1,456 |
| 146 | Development and Applications of CRISPR-Cas9 for Genome Engineering. Cell, 2014, 157, 1262-1278. | 35.1 | 4,324 |
| 147 | Genome-scale transcriptional activation by an engineered CRISPR-Cas9 complex. Nature, 2014, 517, 583-588. | 40.1 | 2,058 |
| 148 | In vivo interrogation of gene function in the mammalian brain using CRISPR-Cas9. Nature Biotechnology, 2014, 33, 102-106. | 18.1 | 624 |
| 149 | Genome Architecture and Its Roles in Human Copy Number Variation. Genomics and Informatics, 2014, 12, 136. | 1.2 | 28 |
| 150 | Optical control of mammalian endogenous transcription and epigenetic states. Nature, 2013, 500, 472-476. | 40.1 | 673 |
| 151 | Efficient genome editing in plants using a CRISPR/Cas system. Cell Research, 2013, 23, 1229-1232. | 8.2 | 825 |
| 152 | Increased genome instability in human DNA segments with self-chains: homology-induced structural variations via replicative mechanisms. Human Molecular Genetics, 2013, 22, 2642-2651. | 3.1 | 20 |
| 153 | Replicative mechanisms of CNV formation preferentially occur as intrachromosomal events: evidence from Potockiâ€“Lupski duplication syndrome. Human Molecular Genetics, 2013, 22, 749-756. | 3.1 | 14 |
| 154 | RNA-guided editing of bacterial genomes using CRISPR-Cas systems. Nature Biotechnology, 2013, 31, 233-239. | 18.1 | 1,903 |
| 155 | Increasing frequencies of site-specific mutagenesis and gene targeting in Arabidopsis by manipulating DNA repair pathways. Genome Research, 2013, 23, 547-554. | 4.6 | 139 |
| 156 | Programmable repression and activation of bacterial gene expression using an engineered CRISPR-Cas system. Nucleic Acids Research, 2013, 41, 7429-7437. | 16.2 | 883 |
| 157 | Transcription Activator-Like Effector Nucleases Enable Efficient Plant Genome Engineering Â Â. Plant Physiology, 2012, 161, 20-27. | 5.4 | 391 |
| 158 | Comprehensive interrogation of natural TALE DNA-binding modules and transcriptional repressor domains. Nature Communications, 2012, 3, . | 14.1 | 269 |
| 159 | Structural variation of the human genome: mechanisms, assays, and role in male infertility. Systems Biology in Reproductive Medicine, 2011, 57, 3-16. | 2.2 | 29 |
| 160 | Chromosome Catastrophes Involve Replication Mechanisms Generating Complex Genomic Rearrangements. Cell, 2011, 146, 889-903. | 35.1 | 356 |
| 161 | Potocki-Lupski Syndrome: A Microduplication Syndrome Associated with Oropharyngeal Dysphagia and Failure to Thrive. Journal of Pediatrics, 2011, 158, 655-659.e2. | 2.1 | 38 |
| 162 | Targeted Mutagenesis in Arabidopsis Using Zinc-Finger Nucleases. Methods in Molecular Biology, 2011, , 167-177. | 0.0 | 26 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Copy number variations in the human genome: their mutational mechanisms and roles in diseases. Yi Chuan = Hereditas / Zhongguo Yi Chuan Xue Hui Bian Ji, 2011, 33, 857-869. | 0.8 | 5 |
| 164 | Mechanisms for Nonrecurrent Genomic Rearrangements Associated with CMT1A or HNPP: Rare CNVs as a Cause for Missing Heritability. American Journal of Human Genetics, 2010, 86, 892-903. | 6.8 | 118 |
| 165 | GJB1/Connexin 32 whole gene deletions in patients with X-linked Charcotâ€“Marieâ€“Tooth disease. Neurogenetics, 2010, 11, 465-470. | 1.0 | 29 |
| 166 | Confounding from cryptic relatedness in haplotype-based association studies. Genetica, 2010, 138, 945-950. | 1.2 | 4 |
| 167 | Genetic Relationships of Ethnic Minorities in Southwest China Revealed by Microsatellite Markers. PLoS ONE, 2010, 5, e9895. | 2.5 | 13 |
| 168 | High frequency targeted mutagenesis in Arabidopsis thaliana using zinc finger nucleases. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12028-12033. | 7.7 | 320 |
| 169 | The Suppression of CRMP2 Expression by Bone Morphogenetic Protein (BMP)-SMAD Gradient Signaling Controls Multiple Stages of Neuronal Development. Journal of Biological Chemistry, 2010, 285, 39039-39050. | 2.3 | 42 |
| 170 | Nucleotide polymorphism of the TNF gene cluster in six Chinese populations. Journal of Human Genetics, 2010, 55, 350-357. | 2.2 | 4 |
| 171 | Complex human chromosomal and genomic rearrangements. Trends in Genetics, 2009, 25, 298-307. | 13.0 | 221 |
| 172 | A facile synthesis of goodyeroside A from (S)-malic acid. Science in China Series B: Chemistry, 2009, 52, 2176-2179. | 0.9 | 4 |
| 173 | Copy Number Variation in Human Health, Disease, and Evolution. Annual Review of Genomics and Human Genetics, 2009, 10, 451-481. | 7.4 | 931 |
| 174 | Y chromosome evidence of earliest modern human settlement in East Asia and multiple origins of Tibetan and Japanese populations. BMC Biology, 2008, 6, . | 4.0 | 122 |
| 175 | A spatial analysis of genetic structure of human populations in China reveals distinct difference between maternal and paternal lineages. European Journal of Human Genetics, 2008, 16, 705-717. | 3.1 | 45 |
| 176 | Mechanisms for human genomic rearrangements. PathoGenetics, 2008, 1, . | 3.5 | 473 |
| 177 | Partial blanking of an electron beam using a quadrupole lens. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 133. | 1.7 | 1 |
| 178 | Nanometer-level stitching in raster-scanning electron-beam lithography using spatial-phase locking. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 2650. | 1.7 | 33 |
| 179 | Two-dimensional spatial-phase-locked electron-beam lithography via sparse sampling. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 3268. | 1.7 | 19 |