

Sidi Chen

List of Publications by Year in descending order

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50
papers

8,005
citations

172457

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197818

49
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69
all docs

69
docs citations

69
times ranked

12696
citing authors

#	ARTICLE	IF	CITATIONS
1	CRISPR-Cas9 Knockin Mice for Genome Editing and Cancer Modeling. <i>Cell</i> , 2014, 159, 440-455.	28.9	1,566
2	Genome-wide binding of the CRISPR endonuclease Cas9 in mammalian cells. <i>Nature Biotechnology</i> , 2014, 32, 670-676.	17.5	829
3	Genome editing with Cas9 in adult mice corrects a disease mutation and phenotype. <i>Nature Biotechnology</i> , 2014, 32, 551-553.	17.5	823
4	Genome-wide CRISPR Screen in a Mouse Model of Tumor Growth and Metastasis. <i>Cell</i> , 2015, 160, 1246-1260.	28.9	746
5	CRISPR-mediated direct mutation of cancer genes in the mouse liver. <i>Nature</i> , 2014, 514, 380-384.	27.8	673
6	New genes as drivers of phenotypic evolution. <i>Nature Reviews Genetics</i> , 2013, 14, 645-660.	16.3	313
7	Biosynthesis, Purification, and Substrate Specificity of Severe Acute Respiratory Syndrome Coronavirus 3C-like Proteinase. <i>Journal of Biological Chemistry</i> , 2004, 279, 1637-1642.	3.4	280
8	New Genes in <i>Drosophila</i> Quickly Become Essential. <i>Science</i> , 2010, 330, 1682-1685.	12.6	280
9	New Gene Evolution: Little Did We Know. <i>Annual Review of Genetics</i> , 2013, 47, 307-333.	7.6	249
10	Systematic Immunotherapy Target Discovery Using Genome-Scale In Vivo CRISPR Screens in CD8 ⁺ T Cells. <i>Cell</i> , 2019, 178, 1189-1204.e23.	28.9	189
11	AAV-mediated direct in vivo CRISPR screen identifies functional suppressors in glioblastoma. <i>Nature Neuroscience</i> , 2017, 20, 1329-1341.	14.8	179
12	High-content CRISPR screening. <i>Nature Reviews Methods Primers</i> , 2022, 2, .	21.2	155
13	Nonstructural Protein 1 of SARS-CoV-2 Is a Potent Pathogenicity Factor Redirecting Host Protein Synthesis Machinery toward Viral RNA. <i>Molecular Cell</i> , 2020, 80, 1055-1066.e6.	9.7	152
14	In vivo CRISPR screening in CD8 T cells with AAV ⁺ Sleeping Beauty hybrid vectors identifies membrane targets for improving immunotherapy for glioblastoma. <i>Nature Biotechnology</i> , 2019, 37, 1302-1313.	17.5	123
15	Acyl-CoA Dehydrogenase Drives Heat Adaptation by Sequestering Fatty Acids. <i>Cell</i> , 2015, 161, 1152-1163.	28.9	105
16	One-step generation of modular CAR-T cells with AAV ⁺ Cpf1. <i>Nature Methods</i> , 2019, 16, 247-254.	19.0	101
17	A web tool for the design of prime-editing guide RNAs. <i>Nature Biomedical Engineering</i> , 2021, 5, 190-194.	22.5	85
18	Multiplexed activation of endogenous genes by CRISPRa elicits potent antitumor immunity. <i>Nature Immunology</i> , 2019, 20, 1494-1505.	14.5	83

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19	The evolution of courtship behaviors through the origination of a new gene in <i>Drosophila</i> . Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7478-7483.	7.1	76
20	CRISPR-GEMM Pooled Mutagenic Screening Identifies KMT2D as a Major Modulator of Immune Checkpoint Blockade. Cancer Discovery, 2020, 10, 1912-1933.	9.4	71
21	Cancer CRISPR Screens In Vivo. Trends in Cancer, 2018, 4, 349-358.	7.4	70
22	A genome-scale gain-of-function CRISPR screen in CD8 T cells identifies proline metabolism as a means to enhance CAR-T therapy. Cell Metabolism, 2022, 34, 595-614.e14.	16.2	70
23	Global microRNA depletion suppresses tumor angiogenesis. Genes and Development, 2014, 28, 1054-1067.	5.9	66
24	Mapping a functional cancer genome atlas of tumor suppressors in mouse liver using AAV-CRISPR-mediated direct in vivo screening. Science Advances, 2018, 4, eaao5508.	10.3	64
25	The aging transcriptome and cellular landscape of the human lung in relation to SARS-CoV-2. Nature Communications, 2021, 12, 4.	12.8	63
26	Adaptive Evolution and the Birth of CTCF Binding Sites in the <i>Drosophila</i> Genome. PLoS Biology, 2012, 10, e1001420.	5.6	60
27	In vivo profiling of metastatic double knockouts through CRISPR-Cpf1 screens. Nature Methods, 2019, 16, 405-408.	19.0	52
28	Programmable DNA repair with CRISPRa/i enhanced homology-directed repair efficiency with a single Cas9. Cell Discovery, 2018, 4, 46.	6.7	45
29	Reshaping of global gene expression networks and sex-biased gene expression by integration of a young gene. EMBO Journal, 2012, 31, 2798-2809.	7.8	44
30	Omicron-specific mRNA vaccination alone and as a heterologous booster against SARS-CoV-2. Nature Communications, 2022, 13, .	12.8	40
31	Frequent Recent Origination of Brain Genes Shaped the Evolution of Foraging Behavior in <i>Drosophila</i> . Cell Reports, 2012, 1, 118-132.	6.4	30
32	Sno-derived RNAs are prevalent molecular markers of cancer immunity. Oncogene, 2018, 37, 6442-6462.	5.9	28
33	High-affinity, neutralizing antibodies to SARS-CoV-2 can be made without T follicular helper cells. Science Immunology, 2022, 7, .	11.9	28
34	Genomic analyses of new genes and their phenotypic effects reveal rapid evolution of essential functions in <i>Drosophila</i> development. PLoS Genetics, 2021, 17, e1009654.	3.5	27
35	Diverse Class 2 CRISPR-Cas Effector Proteins for Genome Engineering Applications. ACS Chemical Biology, 2018, 13, 347-356.	3.4	25
36	Cooperative adaptation to therapy (CAT) confers resistance in heterogeneous non-small cell lung cancer. PLoS Computational Biology, 2019, 15, e1007278.	3.2	23

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37	Highly Tissue Specific Expression of Sphinx Supports Its Male Courtship Related Role in <i>Drosophila melanogaster</i> . PLoS ONE, 2011, 6, e18853.	2.5	22
38	Tumor immunology CRISPR screening: present, past, and future. Trends in Cancer, 2022, 8, 210-225.	7.4	17
39	Convergent Identification and Interrogation of Tumor-Intrinsic Factors that Modulate Cancer Immunity In Vivo. Cell Systems, 2019, 8, 136-151.e7.	6.2	14
40	Monospecific and bispecific monoclonal SARS-CoV-2 neutralizing antibodies that maintain potency against B.1.617. Nature Communications, 2022, 13, 1638.	12.8	11
41	Variant-specific vaccination induces systems immune responses and potent in vivo protection against SARS-CoV-2. Cell Reports Medicine, 2022, 3, 100634.	6.5	10
42	Programmable sequential mutagenesis by inducible Cpf1 crRNA array inversion. Nature Communications, 2018, 9, 1903.	12.8	9
43	Multiplexed LNP-mRNA vaccination against pathogenic coronavirus species. Cell Reports, 2022, 40, 111160.	6.4	9
44	RNA-dependent RNA polymerase gene sequence from foot-and-mouth disease virus in Hong Kong. Biochemical and Biophysical Research Communications, 2003, 308, 899-905.	2.1	7
45	High-affinity, neutralizing antibodies to SARS-CoV-2 can be made without T follicular helper cells.. Science Immunology, 2021, , eabl5652.	11.9	6
46	Roles of young serine-endopeptidase genes in survival and reproduction revealed rapid evolution of phenotypic effects at adult stages. Fly, 2011, 5, 345-351.	1.7	5
47	Metaviromic identification of discriminative genomic features in SARS-CoV-2 using machine learning. Patterns, 2022, 3, 100407.	5.9	4
48	Rapid modular CAR-T generation with CRISPR/Cpf1 and AAV systems. Protocol Exchange, 0, , .	0.3	1
49	Development of an efficient reproducible cell-cell transmission assay for rapid quantification of SARS-CoV-2 Spike interaction with hACE2. Cell Reports Methods, 2022, , 100252.	2.9	1
50	Signal Transduction and Regulation: Insights into Evolution. BioMed Research International, 2016, 2016, 1-2.	1.9	0