Lei S Qi

List of Publications by Citations

85	16,024	43	101
papers	citations	h-index	g-index
101	20,089	18.9	6.88
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
85	Repurposing CRISPR as an RNA-guided platform for sequence-specific control of gene expression. *Cell*, **2013**, 152, 1173-83	56.2	2988
84	CRISPR-mediated modular RNA-guided regulation of transcription in eukaryotes. *Cell*, **2013**, 154, 442-51	56.2	2255
83	Genome-Scale CRISPR-Mediated Control of Gene Repression and Activation. *Cell*, **2014**, 159, 647-61	56.2	1556
82	Dynamic imaging of genomic loci in living human cells by an optimized CRISPR/Cas system. *Cell*, **2013**, 155, 1479-91	56.2	1306
81	A protein-tagging system for signal amplification in gene expression and fluorescence imaging. *Cell* , **2014**, 159, 635-46	56.2	874
80	CRISPR interference (CRISPRi) for sequence-specific control of gene expression. *Nature Protocols*, **2013**, 8, 2180-96	18.8	677
79	Engineering complex synthetic transcriptional programs with CRISPR RNA scaffolds. *Cell*, **2015**, 160, 339-50	56.2	648
78	CRISPR/Cas9 in Genome Editing and Beyond. *Annual Review of Biochemistry*, **2016**, 85, 227-64	29.1	644
77	Beyond editing: repurposing CRISPR-Cas9 for precision genome regulation and interrogation. *Nature Reviews Molecular Cell Biology*, **2016**, 17, 5-15	48.7	538
76	A Comprehensive, CRISPR-based Functional Analysis of Essential Genes in Bacteria. *Cell*, **2016**, 165, 1493-1506	56.2	367
75	Small molecules enhance CRISPR genome editing in pluripotent stem cells. *Cell Stem Cell*, **2015**, 16, 142-7	18	303
74	CRISPR Interference Efficiently Induces Specific and Reversible Gene Silencing in Human iPSCs. *Cell Stem Cell*, **2016**, 18, 541-53	18	271
73	Versatile RNA-sensing transcriptional regulators for engineering genetic networks. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 8617-22	11.5	212
72	Combinatorial CRISPR-Cas9 screens for de novo mapping of genetic interactions. *Nature Methods*, **2017**, 14, 573-576	21.6	209
71	Development of CRISPR as an Antiviral Strategy to Combat SARS-CoV-2 and Influenza. *Cell*, **2020**, 181, 865-876.e12	56.2	200
70	Complex transcriptional modulation with orthogonal and inducible dCas9 regulators. *Nature Methods*, **2016**, 13, 1043-1049	21.6	178
69	RNA processing enables predictable programming of gene expression. *Nature Biotechnology*, **2012**, 30, 1002-6	44.5	152

68	The New State of the Art: Cas9 for Gene Activation and Repression. *Molecular and Cellular Biology*, **2015**, 35, 3800-9	4.8	150
67	A CRISPR-dCas Toolbox for Genetic Engineering and Synthetic Biology. *Journal of Molecular Biology*, **2019**, 431, 34-47	6.5	140
66	Rationally designed families of orthogonal RNA regulators of translation. *Nature Chemical Biology*, **2012**, 8, 447-54	11.7	140
65	CRISPR-ERA: a comprehensive design tool for CRISPR-mediated gene editing, repression and activation. *Bioinformatics*, **2015**, 31, 3676-8	7.2	124
64	YAP Induces Human Naive Pluripotency. *Cell Reports*, **2016**, 14, 2301-12	10.6	110
63	Genetic interaction mapping in mammalian cells using CRISPR interference. *Nature Methods*, **2017**, 14, 577-580	21.6	108
62	CRISPR-mediated live imaging of genome editing and transcription. *Science*, **2019**, 365, 1301-1305	33.3	104
61	CRISPR-Mediated Programmable 3D Genome Positioning and Nuclear Organization. *Cell*, **2018**, 175, 1405-1417.e14	36.2	104
60	CRISPR Activation Screens Systematically Identify Factors that Drive Neuronal Fate and Reprogramming. *Cell Stem Cell*, **2018**, 23, 758-771.e8	18	103
59	CRISPR-Based Chromatin Remodeling of the Endogenous Oct4 or Sox2 Locus Enables Reprogramming to Pluripotency. *Cell Stem Cell*, **2018**, 22, 252-261.e4	18	97
58	A versatile framework for microbial engineering using synthetic non-coding RNAs. *Nature Reviews Microbiology*, **2014**, 12, 341-54	22.2	90
57	Toward scalable parts families for predictable design of biological circuits. *Current Opinion in Microbiology*, **2008**, 11, 567-73	7.9	82
56	Anti-CRISPR-mediated control of gene editing and synthetic circuits in eukaryotic cells. *Nature Communications*, **2019**, 10, 194	17.4	81
55	Engineering naturally occurring trans-acting non-coding RNAs to sense molecular signals. *Nucleic Acids Research*, **2012**, 40, 5775-86	20.1	78
54	Transient non-integrative expression of nuclear reprogramming factors promotes multifaceted amelioration of aging in human cells. *Nature Communications*, **2020**, 11, 1545	17.4	77
53	YAP-independent mechanotransduction drives breast cancer progression. *Nature Communications*, **2019**, 10, 1848	17.4	75
52	A Single-Chain Photoswitchable CRISPR-Cas9 Architecture for Light-Inducible Gene Editing and Transcription. *ACS Chemical Biology*, **2018**, 13, 443-448	4.9	75
51	CRISPR/Cas9 for Human Genome Engineering and Disease Research. *Annual Review of Genomics and Human Genetics*, **2016**, 17, 131-54	9.7	65

50	Applications of CRISPR Genome Engineering in Cell Biology. *Trends in Cell Biology*, **2016**, 26, 875-888	18.3	58
49	Bacterial CRISPR: accomplishments and prospects. *Current Opinion in Microbiology*, **2015**, 27, 121-6	7.9	57
48	Engineering cell sensing and responses using a GPCR-coupled CRISPR-Cas system. *Nature Communications*, **2017**, 8, 2212	17.4	57
47	CRISPR technologies for precise epigenome editing. *Nature Cell Biology*, **2021**, 23, 11-22	23.4	57
46	An adaptor from translational to transcriptional control enables predictable assembly of complex regulation. *Nature Methods*, **2012**, 9, 1088-94	21.6	56
45	Transcription factor competition allows embryonic stem cells to distinguish authentic signals from noise. *Cell Systems*, **2015**, 1, 117-129	10.6	52
44	Multiplexed Dynamic Imaging of Genomic Loci by Combined CRISPR Imaging and DNA Sequential FISH. *Biophysical Journal*, **2017**, 112, 1773-1776	2.9	48
43	. *F1000Research*, **2017**, 6,	3.6	44
42	Targeted Transcriptional Repression in Bacteria Using CRISPR Interference (CRISPRi). *Methods in Molecular Biology*, **2015**, 1311, 349-62	1.4	37
41	Specific gene repression by CRISPRi system transferred through bacterial conjugation. *ACS Synthetic Biology*, **2014**, 3, 929-31	5.7	36
40	Regulation of transcription by unnatural amino acids. *Nature Biotechnology*, **2011**, 29, 164-8	44.5	31
39	Engineered miniature CRISPR-Cas system for mammalian genome regulation and editing. *Molecular Cell*, **2021**, 81, 4333-4345.e4	17.6	28
38	Multiple Input Sensing and Signal Integration Using a Split Cas12a System. *Molecular Cell*, **2020**, 78, 184-191.e3	17.6	27
37	A benchmark of algorithms for the analysis of pooled CRISPR screens. *Genome Biology*, **2020**, 21, 62	18.3	22
36	CRISPhieRmix: a hierarchical mixture model for CRISPR pooled screens. *Genome Biology*, **2018**, 19, 159	18.3	20
35	Reversible Disruption of Specific Transcription Factor-DNA Interactions Using CRISPR/Cas9. *Molecular Cell*, **2019**, 74, 622-633.e4	17.6	19
34	Low-frequency ultrasound-mediated cytokine transfection enhances T cell recruitment at local and distant tumor sites. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 12674-12685	11.5	19
33	Fibrinogen Alpha Chain Knockout Promotes Tumor Growth and Metastasis through Integrin-AKT Signaling Pathway in Lung Cancer. *Molecular Cancer Research*, **2020**, 18, 943-954	6.6	17

32	CRISPR Technology for Genome Activation and Repression in Mammalian Cells. *Cold Spring Harbor Protocols*, **2016**, 2016, pdb.prot090175	1.2	16
31	Double Emulsion Picoreactors for High-Throughput Single-Cell Encapsulation and Phenotyping via FACS. *Analytical Chemistry*, **2020**, 92, 13262-13270	7.8	16
30	When genome editing goes off-target. *Science*, **2019**, 364, 234-236	33.3	14
29	Development of CRISPR as a prophylactic strategy to combat novel coronavirus and influenza		12
28	Engineering 3D genome organization. *Nature Reviews Genetics*, **2021**, 22, 343-360	30.1	11
27	High-content CRISPR screening. *Nature Reviews Methods Primers*, **2022**, 2,		10
26	CRISPR-based genome editing in primary human pancreatic islet cells. *Nature Communications*, **2021**, 12, 2397	17.4	7
25	An Introduction to CRISPR Technology for Genome Activation and Repression in Mammalian Cells. *Cold Spring Harbor Protocols*, **2016**, 2016, pdb.top086835	1.2	6
24	Systematic genome-wide querying of coding and non-coding functional elements in E. coli using CRISPRi		6
23	A comprehensive analysis and resource to use CRISPR-Cas13 for broad-spectrum targeting of RNA viruses. *Cell Reports Medicine*, **2021**, 2, 100245	18	6
22	Therapeutic genome editing in cardiovascular diseases. *Advanced Drug Delivery Reviews*, **2021**, 168, 147-187	18.5	6
21	Identification of Novel Regulatory Genes in APAP Induced Hepatocyte Toxicity by a Genome-Wide CRISPR-Cas9 Screen. *Scientific Reports*, **2019**, 9, 1396	4.9	5
20	Identification of cell context-dependent YAP-associated proteins reveals and integrin mediate YAP translocation independently of cell spreading. *Scientific Reports*, **2019**, 9, 17188	4.9	5
19	Site-Programmable Transposition: Shifting the Paradigm for CRISPR-Cas Systems. *Molecular Cell*, **2019**, 75, 206-208	17.6	4
18	Durable CRISPR-Based Epigenetic Silencing. *Biodesign Research*, **2021**, 2021, 1-8	3.1	4
17	Enhanced Cas12a multi-gene regulation using a CRISPR array separator. *ELife*, **2021**, 10,	8.9	4
16	Computational Methods for Analysis of Large-Scale CRISPR Screens. *Annual Review of Biomedical Data Science*, **2020**, 3, 137-162	5.6	3
15	CRISPRi/a Screening with Human iPSCs. *Methods in Molecular Biology*, **2021**, 2320, 261-281	1.4	3

14	Evolution at the Cutting Edge: CRISPR-Mediated Directed Evolution. *Molecular Cell*, **2018**, 72, 402-403	17.6	3
13	Multi-color super-resolution imaging to study human coronavirus RNA during cellular infection.. *Cell Reports Methods*, **2022**, 100170		2
12	Reversible inhibition of specific transcription factor-DNA interactions using CRISPR		2
11	Interrogation of the dynamic properties of higher-order heterochromatin using CRISPR-dCas9. *Molecular Cell*, **2021**, 81, 4287-4299.e5	17.6	2
10	Multiplexed genome regulation in vivo with hyper-efficient Cas12a.. *Nature Cell Biology*, **2022**,	23.4	2
9	Dual CRISPR interference and activation for targeted reactivation of X-linked endogenous FOXP3 in human breast cancer cells.. *Molecular Cancer*, **2022**, 21, 38	42.1	1
8	The use of new CRISPR tools in cardiovascular research and medicine.. *Nature Reviews Cardiology*, **2022**,	14.8	1
7	Contextual reprogramming of CAR-T cells for treatment of HER2 cancers. *Journal of Translational Medicine*, **2021**, 19, 459	8.5	1
6	Regenerating Urethral Striated Muscle by CRISPRi/dCas9-KRAB-Mediated Myostatin Silencing for Obesity-Associated Stress Urinary Incontinence. *CRISPR Journal*, **2020**, 3, 562-572	2.5	1
5	Temporal-Spatial Visualization of Endogenous Chromosome Rearrangements in Living Cells		1
4	Single-cell transcriptomic profiling reveals distinct mechanical responses between normal and diseased tendon progenitor cells. *Cell Reports Medicine*, **2021**, 2, 100343	18	1
3	Enhanced Cas12a multi-gene regulation using a CRISPR array separator		1
2	Using CRISPR-ERA Webserver for sgRNA Design. *Bio-protocol*, **2017**, 7, e2522	0.9	0
1	Broad-spectrum CRISPR-mediated inhibition of SARS-CoV-2 variants and endemic coronaviruses in vitro.. *Nature Communications*, **2022**, 13, 2766	17.4	0