

# Lei S Qi

## List of Publications by Year in descending order

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85  
papers

22,965  
citations

43973

48  
h-index

58464

82  
g-index

101  
all docs

101  
docs citations

101  
times ranked

21958  
citing authors

#	ARTICLE	IF	CITATIONS
1	Repurposing CRISPR as an RNA-Guided Platform for Sequence-Specific Control of Gene Expression. <i>Cell</i> , 2013, 152, 1173-1183.	13.5	4,090
2	CRISPR-Mediated Modular RNA-Guided Regulation of Transcription in Eukaryotes. <i>Cell</i> , 2013, 154, 442-451.	13.5	3,012
3	Genome-Scale CRISPR-Mediated Control of Gene Repression and Activation. <i>Cell</i> , 2014, 159, 647-661.	13.5	2,176
4	Dynamic Imaging of Genomic Loci in Living Human Cells by an Optimized CRISPR/Cas System. <i>Cell</i> , 2013, 155, 1479-1491.	13.5	1,695
5	A Protein-Tagging System for Signal Amplification in Gene Expression and Fluorescence Imaging. <i>Cell</i> , 2014, 159, 635-646.	13.5	1,245
6	CRISPR interference (CRISPRi) for sequence-specific control of gene expression. <i>Nature Protocols</i> , 2013, 8, 2180-2196.	5.5	930
7	CRISPR/Cas9 in Genome Editing and Beyond. <i>Annual Review of Biochemistry</i> , 2016, 85, 227-264.	5.0	897
8	Engineering Complex Synthetic Transcriptional Programs with CRISPR RNA Scaffolds. <i>Cell</i> , 2015, 160, 339-350.	13.5	809
9	Beyond editing: repurposing CRISPR-Cas9 for precision genome regulation and interrogation. <i>Nature Reviews Molecular Cell Biology</i> , 2016, 17, 5-15.	16.1	698
10	A Comprehensive, CRISPR-based Functional Analysis of Essential Genes in Bacteria. <i>Cell</i> , 2016, 165, 1493-1506.	13.5	593
11	CRISPR Interference Efficiently Induces Specific and Reversible Gene Silencing in Human iPSCs. <i>Cell Stem Cell</i> , 2016, 18, 541-553.	5.2	418
12	Small Molecules Enhance CRISPR Genome Editing in Pluripotent Stem Cells. <i>Cell Stem Cell</i> , 2015, 16, 142-147.	5.2	372
13	Development of CRISPR as an Antiviral Strategy to Combat SARS-CoV-2 and Influenza. <i>Cell</i> , 2020, 181, 865-876.e12.	13.5	354
14	Combinatorial CRISPR-Cas9 screens for de novo mapping of genetic interactions. <i>Nature Methods</i> , 2017, 14, 573-576.	9.0	287
15	Versatile RNA-sensing transcriptional regulators for engineering genetic networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8617-8622.	3.3	277
16	Complex transcriptional modulation with orthogonal and inducible dCas9 regulators. <i>Nature Methods</i> , 2016, 13, 1043-1049.	9.0	271
17	CRISPR technologies for precise epigenome editing. <i>Nature Cell Biology</i> , 2021, 23, 11-22.	4.6	248
18	A CRISPR-dCas Toolbox for Genetic Engineering and Synthetic Biology. <i>Journal of Molecular Biology</i> , 2019, 431, 34-47.	2.0	225

#	ARTICLE	IF	CITATIONS
19	The New State of the Art: Cas9 for Gene Activation and Repression. <i>Molecular and Cellular Biology</i> , 2015, 35, 3800-3809.	1.1	197
20	CRISPR-mediated live imaging of genome editing and transcription. <i>Science</i> , 2019, 365, 1301-1305.	6.0	193
21	RNA processing enables predictable programming of gene expression. <i>Nature Biotechnology</i> , 2012, 30, 1002-1006.	9.4	184
22	Transient non-integrative expression of nuclear reprogramming factors promotes multifaceted amelioration of aging in human cells. <i>Nature Communications</i> , 2020, 11, 1545.	5.8	183
23	Engineered miniature CRISPR-Cas system for mammalian genome regulation and editing. <i>Molecular Cell</i> , 2021, 81, 4333-4345.e4.	4.5	177
24	CRISPR-ERA: a comprehensive design tool for CRISPR-mediated gene editing, repression and activation: Fig. 1.. <i>Bioinformatics</i> , 2015, 31, 3676-3678.	1.8	171
25	CRISPR-Mediated Programmable 3D Genome Positioning and Nuclear Organization. <i>Cell</i> , 2018, 175, 1405-1417.e14.	13.5	164
26	CRISPR Activation Screens Systematically Identify Factors that Drive Neuronal Fate and Reprogramming. <i>Cell Stem Cell</i> , 2018, 23, 758-771.e8.	5.2	161
27	Rationally designed families of orthogonal RNA regulators of translation. <i>Nature Chemical Biology</i> , 2012, 8, 447-454.	3.9	157
28	YAP Induces Human Naive Pluripotency. <i>Cell Reports</i> , 2016, 14, 2301-2312.	2.9	157
29	High-content CRISPR screening. <i>Nature Reviews Methods Primers</i> , 2022, 2, .	11.8	155
30	Genetic interaction mapping in mammalian cells using CRISPR interference. <i>Nature Methods</i> , 2017, 14, 577-580.	9.0	142
31	CRISPR-Based Chromatin Remodeling of the Endogenous Oct4 or Sox2 Locus Enables Reprogramming to Pluripotency. <i>Cell Stem Cell</i> , 2018, 22, 252-261.e4.	5.2	133
32	YAP-independent mechanotransduction drives breast cancer progression. <i>Nature Communications</i> , 2019, 10, 1848.	5.8	127
33	A versatile framework for microbial engineering using synthetic non-coding RNAs. <i>Nature Reviews Microbiology</i> , 2014, 12, 341-354.	13.6	126
34	Anti-CRISPR-mediated control of gene editing and synthetic circuits in eukaryotic cells. <i>Nature Communications</i> , 2019, 10, 194.	5.8	118
35	Toward scalable parts families for predictable design of biological circuits. <i>Current Opinion in Microbiology</i> , 2008, 11, 567-573.	2.3	106
36	A Single-Chain Photoswitchable CRISPR-Cas9 Architecture for Light-Inducible Gene Editing and Transcription. <i>ACS Chemical Biology</i> , 2018, 13, 443-448.	1.6	103

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37	Engineering naturally occurring trans-acting non-coding RNAs to sense molecular signals. <i>Nucleic Acids Research</i> , 2012, 40, 5775-5786.	6.5	87
38	Engineering cell sensing and responses using a GPCR-coupled CRISPR-Cas system. <i>Nature Communications</i> , 2017, 8, 2212.	5.8	81
39	CRISPR/Cas9 for Human Genome Engineering and Disease Research. <i>Annual Review of Genomics and Human Genetics</i> , 2016, 17, 131-154.	2.5	80
40	Bacterial CRISPR: accomplishments and prospects. <i>Current Opinion in Microbiology</i> , 2015, 27, 121-126.	2.3	74
41	Transcription Factor Competition Allows Embryonic Stem Cells to Distinguish Authentic Signals from Noise. <i>Cell Systems</i> , 2015, 1, 117-129.	2.9	73
42	Multiplexed Dynamic Imaging of Genomic Loci by Combined CRISPR Imaging and DNA Sequential FISH. <i>Biophysical Journal</i> , 2017, 112, 1773-1776.	0.2	70
43	Applications of CRISPR Genome Engineering in Cell Biology. <i>Trends in Cell Biology</i> , 2016, 26, 875-888.	3.6	68
44	An adaptor from translational to transcriptional control enables predictable assembly of complex regulation. <i>Nature Methods</i> , 2012, 9, 1088-1094.	9.0	67
45	Fibrinogen Alpha Chain Knockout Promotes Tumor Growth and Metastasis through Integrin- $\alpha$ 5 $\beta$ 1 Signaling Pathway in Lung Cancer. <i>Molecular Cancer Research</i> , 2020, 18, 943-954.	1.5	65
46	Multiple Input Sensing and Signal Integration Using a Split Cas12a System. <i>Molecular Cell</i> , 2020, 78, 184-191.e3.	4.5	62
47	Low-frequency ultrasound-mediated cytokine transfection enhances T cell recruitment at local and distant tumor sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12674-12685.	3.3	61
48	Genetic and epigenetic control of gene expression by CRISPR-Cas systems. <i>F1000Research</i> , 2017, 6, 747.	0.8	58
49	Targeted Transcriptional Repression in Bacteria Using CRISPR Interference (CRISPRi). <i>Methods in Molecular Biology</i> , 2015, 1311, 349-362.	0.4	51
50	Specific Gene Repression by CRISPRi System Transferred through Bacterial Conjugation. <i>ACS Synthetic Biology</i> , 2014, 3, 929-931.	1.9	47
51	Reversible Disruption of Specific Transcription Factor-DNA Interactions Using CRISPR/Cas9. <i>Molecular Cell</i> , 2019, 74, 622-633.e4.	4.5	45
52	A benchmark of algorithms for the analysis of pooled CRISPR screens. <i>Genome Biology</i> , 2020, 21, 62.	3.8	45
53	Multiplexed genome regulation in vivo with hyper-efficient Cas12a. <i>Nature Cell Biology</i> , 2022, 24, 590-600.	4.6	39
54	Double Emulsion Picoreactors for High-Throughput Single-Cell Encapsulation and Phenotyping via FACS. <i>Analytical Chemistry</i> , 2020, 92, 13262-13270.	3.2	38

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55	Engineering 3D genome organization. <i>Nature Reviews Genetics</i> , 2021, 22, 343-360.	7.7	38
56	CRISPhieRmix: a hierarchical mixture model for CRISPR pooled screens. <i>Genome Biology</i> , 2018, 19, 159.	3.8	36
57	Regulation of transcription by unnatural amino acids. <i>Nature Biotechnology</i> , 2011, 29, 164-168.	9.4	32
58	CRISPR-based genome editing in primary human pancreatic islet cells. <i>Nature Communications</i> , 2021, 12, 2397.	5.8	26
59	Enhanced Cas12a multi-gene regulation using a CRISPR array separator. <i>ELife</i> , 2021, 10, .	2.8	25
60	Therapeutic genome editing in cardiovascular diseases. <i>Advanced Drug Delivery Reviews</i> , 2021, 168, 147-157.	6.6	23
61	A comprehensive analysis and resource to use CRISPR-Cas13 for broad-spectrum targeting of RNA viruses. <i>Cell Reports Medicine</i> , 2021, 2, 100245.	3.3	23
62	Interrogation of the dynamic properties of higher-order heterochromatin using CRISPR-dCas9. <i>Molecular Cell</i> , 2021, 81, 4287-4299.e5.	4.5	21
63	The use of new CRISPR tools in cardiovascular research and medicine. <i>Nature Reviews Cardiology</i> , 2022, 19, 505-521.	6.1	21
64	CRISPR Technology for Genome Activation and Repression in Mammalian Cells. <i>Cold Spring Harbor Protocols</i> , 2016, 2016, pdb.prot090175.	0.2	20
65	Broad-spectrum CRISPR-mediated inhibition of SARS-CoV-2 variants and endemic coronaviruses in vitro. <i>Nature Communications</i> , 2022, 13, 2766.	5.8	20
66	When genome editing goes off-target. <i>Science</i> , 2019, 364, 234-236.	6.0	18
67	Dual CRISPR interference and activation for targeted reactivation of X-linked endogenous FOXP3 in human breast cancer cells. <i>Molecular Cancer</i> , 2022, 21, 38.	7.9	16
68	Durable CRISPR-Based Epigenetic Silencing. <i>Biodesign Research</i> , 2021, 2021, .	0.8	14
69	CRISPRi/a Screening with Human iPSCs. <i>Methods in Molecular Biology</i> , 2021, 2320, 261-281.	0.4	13
70	Multi-color super-resolution imaging to study human coronavirus RNA during cellular infection. <i>Cell Reports Methods</i> , 2022, 2, 100170.	1.4	13
71	CRISPR-Mediated Synergistic Epigenetic and Transcriptional Control. <i>CRISPR Journal</i> , 2022, 5, 264-275.	1.4	13
72	Scalable biological signal recording in mammalian cells using Cas12a base editors. <i>Nature Chemical Biology</i> , 2022, 18, 742-750.	3.9	12

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73	Identification of cell context-dependent YAP-associated proteins reveals $\beta$ 1 and $\beta$ 4 integrin mediate YAP translocation independently of cell spreading. <i>Scientific Reports</i> , 2019, 9, 17188.	1.6	11
74	Contextual reprogramming of CAR-T cells for treatment of HER2+ cancers. <i>Journal of Translational Medicine</i> , 2021, 19, 459.	1.8	11
75	Single-cell transcriptomic profiling reveals distinct mechanical responses between normal and diseased tendon progenitor cells. <i>Cell Reports Medicine</i> , 2021, 2, 100343.	3.3	10
76	Regenerating Urethral Striated Muscle by CRISPRi/dCas9-KRAB-Mediated Myostatin Silencing for Obesity-Associated Stress Urinary Incontinence. <i>CRISPR Journal</i> , 2020, 3, 562-572.	1.4	9
77	Identification of Novel Regulatory Genes in APAP Induced Hepatocyte Toxicity by a Genome-Wide CRISPR-Cas9 Screen. <i>Scientific Reports</i> , 2019, 9, 1396.	1.6	8
78	An Introduction to CRISPR Technology for Genome Activation and Repression in Mammalian Cells. <i>Cold Spring Harbor Protocols</i> , 2016, 2016, pdb.top086835.	0.2	7
79	Site-Programmable Transposition: Shifting the Paradigm for CRISPR-Cas Systems. <i>Molecular Cell</i> , 2019, 75, 206-208.	4.5	7
80	Evolution at the Cutting Edge: CRISPR-Mediated Directed Evolution. <i>Molecular Cell</i> , 2018, 72, 402-403.	4.5	4
81	Computational Methods for Analysis of Large-Scale CRISPR Screens. <i>Annual Review of Biomedical Data Science</i> , 2020, 3, 137-162.	2.8	4
82	Using CRISPR-ERA Webserver for sgRNA Design. <i>Bio-protocol</i> , 2017, 7, e2522.	0.2	2
83	Engineering mRNA structural regulation of transcription using an RNA-sensing riboregulator. <i>FASEB Journal</i> , 2010, 24, .	0.2	0
84	Abstract 185: p300 and STAT3 drive YAP-independent mechanotransduction during breast cancer invasion. , 2018, , .		0
85	Enhanced Myogenesis by Silencing Myostatin with Nonviral Delivery of dCas9 Ribonucleoprotein Complex. <i>CRISPR Journal</i> , 0, , .	1.4	0