

Jonathan S Gootenberg

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.

48
papers

19,109
citations

32
h-index

62
g-index

62
ext. papers

25,288
ext. citations

29.1
avg, IF

6.78
L-index

#	Paper	IF	Citations
48	Cpf1 is a single RNA-guided endonuclease of a class 2 CRISPR-Cas system. <i>Cell</i> , 2015 , 163, 759-71	56.2	2414
47	Double nicking by RNA-guided CRISPR Cas9 for enhanced genome editing specificity. <i>Cell</i> , 2013 , 154, 1380-9	56.2	2348
46	In vivo genome editing using <i>Staphylococcus aureus</i> Cas9. <i>Nature</i> , 2015 , 520, 186-91	50.4	1700
45	Genome-scale transcriptional activation by an engineered CRISPR-Cas9 complex. <i>Nature</i> , 2015 , 517, 583-8	50.4	1628
44	Nucleic acid detection with CRISPR-Cas13a/C2c2. <i>Science</i> , 2017 , 356, 438-442	33.3	1240
43	C2c2 is a single-component programmable RNA-guided RNA-targeting CRISPR effector. <i>Science</i> , 2016 , 353, aaf5573	33.3	1037
42	Multiplexed and portable nucleic acid detection platform with Cas13, Cas12a, and Csm6. <i>Science</i> , 2018 , 360, 439-444	33.3	916
41	RNA targeting with CRISPR-Cas13. <i>Nature</i> , 2017 , 550, 280-284	50.4	900
40	RNA editing with CRISPR-Cas13. <i>Science</i> , 2017 , 358, 1019-1027	33.3	811
39	Discovery and Functional Characterization of Diverse Class 2 CRISPR-Cas Systems. <i>Molecular Cell</i> , 2015 , 60, 385-97	17.6	670
38	Field-deployable viral diagnostics using CRISPR-Cas13. <i>Science</i> , 2018 , 360, 444-448	33.3	597
37	Multiplex gene editing by CRISPR-Cpf1 using a single crRNA array. <i>Nature Biotechnology</i> , 2017 , 35, 31-34	44.5	517
36	Diversity and evolution of class 2 CRISPR-Cas systems. <i>Nature Reviews Microbiology</i> , 2017 , 15, 169-182	22.2	516
35	Engineered CRISPR-Cas9 nuclease with expanded targeting space. <i>Science</i> , 2018 , 361, 1259-1262	33.3	486
34	Genome-scale CRISPR-Cas9 knockout and transcriptional activation screening. <i>Nature Protocols</i> , 2017 , 12, 828-863	18.8	459
33	SHERLOCK: nucleic acid detection with CRISPR nucleases. <i>Nature Protocols</i> , 2019 , 14, 2986-3012	18.8	393
32	Cas13b Is a Type VI-B CRISPR-Associated RNA-Guided RNase Differentially Regulated by Accessory Proteins Csx27 and Csx28. <i>Molecular Cell</i> , 2017 , 65, 618-630.e7	17.6	294

31	Genome-scale activation screen identifies a lncRNA locus regulating a gene neighbourhood. <i>Nature</i> , 2017 , 548, 343-346	50.4	243
30	Detection of SARS-CoV-2 with SHERLOCK One-Pot Testing. <i>New England Journal of Medicine</i> , 2020 , 383, 1492-1494	59.2	231
29	Structure and Engineering of Francisella novicida Cas9. <i>Cell</i> , 2016 , 164, 950-61	56.2	225
28	Clinical validation of a Cas13-based assay for the detection of SARS-CoV-2 RNA. <i>Nature Biomedical Engineering</i> , 2020 , 4, 1140-1149	19	198
27	Orthogonal gene knockout and activation with a catalytically active Cas9 nuclease. <i>Nature Biotechnology</i> , 2015 , 33, 1159-61	44.5	176
26	Programmable Inhibition and Detection of RNA Viruses Using Cas13. <i>Molecular Cell</i> , 2019 , 76, 826-837.e17	17.6	176
25	A cytosine deaminase for programmable single-base RNA editing. <i>Science</i> , 2019 , 365, 382-386	33.3	163
24	Point-of-care testing for COVID-19 using SHERLOCK diagnostics 2020 ,		125
23	Crystal Structure of the Minimal Cas9 from Campylobacter jejuni Reveals the Molecular Diversity in the CRISPR-Cas9 Systems. <i>Molecular Cell</i> , 2017 , 65, 1109-1121.e3	17.6	88
22	CRISPR-based diagnostics. <i>Nature Biomedical Engineering</i> , 2021 , 5, 643-656	19	80
21	Nucleic Acid Detection of Plant Genes Using CRISPR-Cas13. <i>CRISPR Journal</i> , 2019 , 2, 165-171	2.5	51
20	High-Resolution Structure of Cas13b and Biochemical Characterization of RNA Targeting and Cleavage. <i>Cell Reports</i> , 2019 , 26, 3741-3751.e5	10.6	46
19	A global metagenomic map of urban microbiomes and antimicrobial resistance. <i>Cell</i> , 2021 , 184, 3376-3393.e17	36.1	42
18	Double Nicking by RNA-Guided CRISPR Cas9 for Enhanced Genome Editing Specificity. <i>Cell</i> , 2013 , 155, 479-480	56.2	39
17	Rapid SARS-CoV-2 testing in primary material based on a novel multiplex RT-LAMP assay. <i>PLoS ONE</i> , 2020 , 15, e0238612	3.7	36
16	A 5-min RNA preparation method for COVID-19 detection with RT-qPCR		32
15	Programmable RNA targeting with the single-protein CRISPR effector Cas7-11. <i>Nature</i> , 2021 , 597, 720-735	35.4	27
14	A Survey of Genome Editing Activity for 16 Cas12a Orthologs. <i>Keio Journal of Medicine</i> , 2020 , 69, 59-65	1.6	20

13	Pairwise library screen systematically interrogates <i>Staphylococcus aureus</i> Cas9 specificity in human cells. <i>Nature Communications</i> , 2018 , 9, 2962	17.4	18
12	Rapid and accurate species identification for ecological studies and monitoring using CRISPR-based SHERLOCK. <i>Molecular Ecology Resources</i> , 2020 , 20, 961-970	8.4	16
11	CRISPR diagnostics. <i>Science</i> , 2021 , 372, 914-915	33.3	16
10	Barcode extension for analysis and reconstruction of structures. <i>Nature Communications</i> , 2017 , 8, 14698	17.4	14
9	Structural basis for the promiscuous PAM recognition by <i>Corynebacterium diphtheriae</i> Cas9. <i>Nature Communications</i> , 2019 , 10, 1968	17.4	14
8	A Survey of Genome Editing Activity for 16 Cpf1 orthologs		12
7	CRISPR Tools for Systematic Studies of RNA Regulation. <i>Cold Spring Harbor Perspectives in Biology</i> , 2019 , 11,	10.2	11
6	Engineered bromodomains to explore the acetylproteome. <i>Proteomics</i> , 2015 , 15, 1470-5	4.8	10
5	C2c2 is a single-component programmable RNA-guided RNA-targeting CRISPR effector		10
4	Chipping in on Diagnostics. <i>CRISPR Journal</i> , 2019 , 2, 69-71	2.5	4
3	Rapid SARS-CoV-2 testing in primary material based on a novel multiplex LAMP assay		4
2	Multiplex gene editing by CRISPR-Cpf1 through autonomous processing of a single crRNA array		3
1	Protocol: Genome-scale CRISPR-Cas9 Knockout and Transcriptional Activation Screening		2