

Jonathan S Gootenberg

List of Publications by Year in descending order

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44
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30,024
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117625
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docs citations

62
times ranked

23701
citing authors

#	ARTICLE	IF	CITATIONS
1	Cpf1 Is a Single RNA-Guided Endonuclease of a Class 2 CRISPR-Cas System. <i>Cell</i> , 2015, 163, 759-771.	28.9	3,558
2	Double Nicking by RNA-Guided CRISPR Cas9 for Enhanced Genome Editing Specificity. <i>Cell</i> , 2013, 154, 1380-1389.	28.9	2,862
3	Nucleic acid detection with CRISPR-Cas13a/C2c2. <i>Science</i> , 2017, 356, 438-442.	12.6	2,275
4	Genome-scale transcriptional activation by an engineered CRISPR-Cas9 complex. <i>Nature</i> , 2015, 517, 583-588.	27.8	2,272
5	In vivo genome editing using <i>Staphylococcus aureus</i> Cas9. <i>Nature</i> , 2015, 520, 186-191.	27.8	2,237
6	Multiplexed and portable nucleic acid detection platform with Cas13, Cas12a, and Csm6. <i>Science</i> , 2018, 360, 439-444.	12.6	1,649
7	C2c2 is a single-component programmable RNA-guided RNA-targeting CRISPR effector. <i>Science</i> , 2016, 353, aaf5573.	12.6	1,647
8	RNA targeting with CRISPR-Cas13. <i>Nature</i> , 2017, 550, 280-284.	27.8	1,442
9	RNA editing with CRISPR-Cas13. <i>Science</i> , 2017, 358, 1019-1027.	12.6	1,301
10	Field-deployable viral diagnostics using CRISPR-Cas13. <i>Science</i> , 2018, 360, 444-448.	12.6	982
11	Discovery and Functional Characterization of Diverse Class 2 CRISPR-Cas Systems. <i>Molecular Cell</i> , 2015, 60, 385-397.	9.7	971
12	Genome-scale CRISPR-Cas9 knockout and transcriptional activation screening. <i>Nature Protocols</i> , 2017, 12, 828-863.	12.0	858
13	SHERLOCK: nucleic acid detection with CRISPR nucleases. <i>Nature Protocols</i> , 2019, 14, 2986-3012.	12.0	851
14	Diversity and evolution of class 2 CRISPR-Cas systems. <i>Nature Reviews Microbiology</i> , 2017, 15, 169-182.	28.6	792
15	Engineered CRISPR-Cas9 nuclease with expanded targeting space. <i>Science</i> , 2018, 361, 1259-1262.	12.6	783
16	Multiplex gene editing by CRISPR-Cpf1 using a single crRNA array. <i>Nature Biotechnology</i> , 2017, 35, 31-34.	17.5	736
17	Detection of SARS-CoV-2 with SHERLOCK One-Pot Testing. <i>New England Journal of Medicine</i> , 2020, 383, 1492-1494.	27.0	506
18	CRISPR-based diagnostics. <i>Nature Biomedical Engineering</i> , 2021, 5, 643-656.	22.5	492

#	ARTICLE	IF	CITATIONS
19	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.	9.7	445
20	Clinical validation of a Cas13-based assay for the detection of SARS-CoV-2 RNA. <i>Nature Biomedical Engineering</i> , 2020, 4, 1140-1149.	22.5	442
21	Genome-scale activation screen identifies a lncRNA locus regulating a gene neighbourhood. <i>Nature</i> , 2017, 548, 343-346.	27.8	336
22	A cytosine deaminase for programmable single-base RNA editing. <i>Science</i> , 2019, 365, 382-386.	12.6	322
23	Structure and Engineering of <i>Francisella novicida</i> Cas9. <i>Cell</i> , 2016, 164, 950-961.	28.9	296
24	Programmable Inhibition and Detection of RNA Viruses Using Cas13. <i>Molecular Cell</i> , 2019, 76, 826-837.e11.	9.7	286
25	Orthogonal gene knockout and activation with a catalytically active Cas9 nuclease. <i>Nature Biotechnology</i> , 2015, 33, 1159-1161.	17.5	231
26	A global metagenomic map of urban microbiomes and antimicrobial resistance. <i>Cell</i> , 2021, 184, 3376-3393.e17.	28.9	164
27	Programmable RNA targeting with the single-protein CRISPR effector Cas7-11. <i>Nature</i> , 2021, 597, 720-725.	27.8	155
28	Crystal Structure of the Minimal Cas9 from <i>Campylobacter jejuni</i> Reveals the Molecular Diversity in the CRISPR-Cas9 Systems. <i>Molecular Cell</i> , 2017, 65, 1109-1121.e3.	9.7	145
29	High-Resolution Structure of Cas13b and Biochemical Characterization of RNA Targeting and Cleavage. <i>Cell Reports</i> , 2019, 26, 3741-3751.e5.	6.4	102
30	Nucleic Acid Detection of Plant Genes Using CRISPR-Cas13. <i>CRISPR Journal</i> , 2019, 2, 165-171.	2.9	92
31	Rapid SARS-CoV-2 testing in primary material based on a novel multiplex RT-LAMP assay. <i>PLoS ONE</i> , 2020, 15, e0238612.	2.5	58
32	CRISPR diagnostics. <i>Science</i> , 2021, 372, 914-915.	12.6	52
33	Structure and engineering of the type III-E CRISPR-Cas7-11 effector complex. <i>Cell</i> , 2022, 185, 2324-2337.e16.	28.9	51
34	Double Nicking by RNA-Guided CRISPR Cas9 for Enhanced Genome Editing Specificity. <i>Cell</i> , 2013, 155, 479-480.	28.9	45
35	A Survey of Genome Editing Activity for 16 Cas12a Orthologs. <i>Keio Journal of Medicine</i> , 2020, 69, 59-65.	1.1	41
36	Rapid and accurate species identification for ecological studies and monitoring using CRISPR-based SHERLOCK. <i>Molecular Ecology Resources</i> , 2020, 20, 961-970.	4.8	35

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37	Structural basis for the promiscuous PAM recognition by <i>Corynebacterium diphtheriae</i> Cas9. <i>Nature Communications</i> , 2019, 10, 1968.	12.8	33
38	Pairwise library screen systematically interrogates <i>Staphylococcus aureus</i> Cas9 specificity in human cells. <i>Nature Communications</i> , 2018, 9, 2962.	12.8	32
39	CRISPR Tools for Systematic Studies of RNA Regulation. <i>Cold Spring Harbor Perspectives in Biology</i> , 2019, 11, a035386.	5.5	22
40	Barcode extension for analysis and reconstruction of structures. <i>Nature Communications</i> , 2017, 8, 14698.	12.8	17
41	Engineered bromodomains to explore the acetylproteome. <i>Proteomics</i> , 2015, 15, 1470-1475.	2.2	10
42	Chipping in on Diagnostics. <i>CRISPR Journal</i> , 2019, 2, 69-71.	2.9	4
43	S15.2â€¦Crispr diagnostics: expanding the nucleic acid detection toolbox by harnessing microbial diversity. , 2019, , .		0
44	Abstract 1978: The poly-SUMO protein specific E3 ubiquitin ligase RNF4 is induced in multiple myeloma and reduces bortezomib-induced cell killing. , 2010, , .		0