

Jonathan S Gootenberg

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8501185/jonathan-s-gootenberg-publications-by-year.pdf>

Version: 2024-04-18

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	CRISPR diagnostics. <i>Science</i> , 2021 , 372, 914-915	33.3	16
47	A global metagenomic map of urban microbiomes and antimicrobial resistance. <i>Cell</i> , 2021 , 184, 3376-3393	36.17	42
46	CRISPR-based diagnostics. <i>Nature Biomedical Engineering</i> , 2021 , 5, 643-656	19	80
45	Programmable RNA targeting with the single-protein CRISPR effector Cas7-11. <i>Nature</i> , 2021 , 597, 720-735	35.4	27
44	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
43	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
42	A Survey of Genome Editing Activity for 16 Cas12a Orthologs. <i>Keio Journal of Medicine</i> , 2020 , 69, 59-65	1.6	20
41	Point-of-care testing for COVID-19 using SHERLOCK diagnostics 2020 ,		125
40	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
39	Detection of SARS-CoV-2 with SHERLOCK One-Pot Testing. <i>New England Journal of Medicine</i> , 2020 , 383, 1492-1494	59.2	231
38	SHERLOCK: nucleic acid detection with CRISPR nucleases. <i>Nature Protocols</i> , 2019 , 14, 2986-3012	18.8	393
37	Chipping in on Diagnostics. <i>CRISPR Journal</i> , 2019 , 2, 69-71	2.5	4
36	Structural basis for the promiscuous PAM recognition by <i>Corynebacterium diphtheriae</i> Cas9. <i>Nature Communications</i> , 2019 , 10, 1968	17.4	14
35	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
34	CRISPR Tools for Systematic Studies of RNA Regulation. <i>Cold Spring Harbor Perspectives in Biology</i> , 2019 , 11,	10.2	11
33	A cytosine deaminase for programmable single-base RNA editing. <i>Science</i> , 2019 , 365, 382-386	33.3	163
32	Nucleic Acid Detection of Plant Genes Using CRISPR-Cas13. <i>CRISPR Journal</i> , 2019 , 2, 165-171	2.5	51

31	Programmable Inhibition and Detection of RNA Viruses Using Cas13. <i>Molecular Cell</i> , 2019 , 76, 826-837.e11.6	17.6	176
30	Multiplexed and portable nucleic acid detection platform with Cas13, Cas12a, and Csm6. <i>Science</i> , 2018 , 360, 439-444	33.3	916
29	Field-deployable viral diagnostics using CRISPR-Cas13. <i>Science</i> , 2018 , 360, 444-448	33.3	597
28	Pairwise library screen systematically interrogates <i>Staphylococcus aureus</i> Cas9 specificity in human cells. <i>Nature Communications</i> , 2018 , 9, 2962	17.4	18
27	Engineered CRISPR-Cas9 nuclease with expanded targeting space. <i>Science</i> , 2018 , 361, 1259-1262	33.3	486
26	Diversity and evolution of class 2 CRISPR-Cas systems. <i>Nature Reviews Microbiology</i> , 2017 , 15, 169-182	22.2	516
25	Nucleic acid detection with CRISPR-Cas13a/C2c2. <i>Science</i> , 2017 , 356, 438-442	33.3	1240
24	Multiplex gene editing by CRISPR-Cpf1 using a single crRNA array. <i>Nature Biotechnology</i> , 2017 , 35, 31-34	44.5	517
23	Genome-scale CRISPR-Cas9 knockout and transcriptional activation screening. <i>Nature Protocols</i> , 2017 , 12, 828-863	18.8	459
22	Barcode extension for analysis and reconstruction of structures. <i>Nature Communications</i> , 2017 , 8, 14698	17.4	14
21	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	17.6	88
20	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
19	RNA editing with CRISPR-Cas13. <i>Science</i> , 2017 , 358, 1019-1027	33.3	811
18	RNA targeting with CRISPR-Cas13. <i>Nature</i> , 2017 , 550, 280-284	50.4	900
17	Genome-scale activation screen identifies a lncRNA locus regulating a gene neighbourhood. <i>Nature</i> , 2017 , 548, 343-346	50.4	243
16	C2c2 is a single-component programmable RNA-guided RNA-targeting CRISPR effector. <i>Science</i> , 2016 , 353, aaf5573	33.3	1037
15	Structure and Engineering of <i>Francisella novicida</i> Cas9. <i>Cell</i> , 2016 , 164, 950-61	56.2	225
14	Engineered bromodomains to explore the acetylproteome. <i>Proteomics</i> , 2015 , 15, 1470-5	4.8	10

13	In vivo genome editing using <i>Staphylococcus aureus</i> Cas9. <i>Nature</i> , 2015 , 520, 186-91	50.4	1700
12	Orthogonal gene knockout and activation with a catalytically active Cas9 nuclease. <i>Nature Biotechnology</i> , 2015 , 33, 1159-61	44.5	176
11	Cpf1 is a single RNA-guided endonuclease of a class 2 CRISPR-Cas system. <i>Cell</i> , 2015 , 163, 759-71	56.2	2414
10	Discovery and Functional Characterization of Diverse Class 2 CRISPR-Cas Systems. <i>Molecular Cell</i> , 2015 , 60, 385-97	17.6	670
9	Genome-scale transcriptional activation by an engineered CRISPR-Cas9 complex. <i>Nature</i> , 2015 , 517, 583-8	50.4	1628
8	Double nicking by RNA-guided CRISPR Cas9 for enhanced genome editing specificity. <i>Cell</i> , 2013 , 154, 1380-9	56.2	2348
7	Double Nicking by RNA-Guided CRISPR Cas9 for Enhanced Genome Editing Specificity. <i>Cell</i> , 2013 , 155, 479-480	56.2	39
6	Multiplex gene editing by CRISPR-Cpf1 through autonomous processing of a single crRNA array		3
5	C2c2 is a single-component programmable RNA-guided RNA-targeting CRISPR effector		10
4	A Survey of Genome Editing Activity for 16 Cpf1 orthologs		12
3	A 5-min RNA preparation method for COVID-19 detection with RT-qPCR		32
2	Rapid SARS-CoV-2 testing in primary material based on a novel multiplex LAMP assay		4
1	Protocol: Genome-scale CRISPR-Cas9 Knockout and Transcriptional Activation Screening		2