

J Keith Joung

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

32,843
citations

26567

56
h-index

42291

92
g-index

102
all docs

102
docs citations

102
times ranked

30541
citing authors

#	ARTICLE	IF	CITATIONS
1	High-frequency off-target mutagenesis induced by CRISPR-Cas nucleases in human cells. <i>Nature Biotechnology</i> , 2013, 31, 822-826.	9.4	2,754
2	CRISPR-Cas systems for editing, regulating and targeting genomes. <i>Nature Biotechnology</i> , 2014, 32, 347-355.	9.4	2,648
3	Efficient genome editing in zebrafish using a CRISPR-Cas system. <i>Nature Biotechnology</i> , 2013, 31, 227-229.	9.4	2,638
4	High-fidelity CRISPR-Cas9 nucleases with no detectable genome-wide off-target effects. <i>Nature</i> , 2016, 529, 490-495.	13.7	2,126
5	GUIDE-seq enables genome-wide profiling of off-target cleavage by CRISPR-Cas nucleases. <i>Nature Biotechnology</i> , 2015, 33, 187-197.	9.4	1,757
6	Improving CRISPR-Cas nuclease specificity using truncated guide RNAs. <i>Nature Biotechnology</i> , 2014, 32, 279-284.	9.4	1,706
7	Engineered CRISPR-Cas9 nucleases with altered PAM specificities. <i>Nature</i> , 2015, 523, 481-485.	13.7	1,388
8	TALENs: a widely applicable technology for targeted genome editing. <i>Nature Reviews Molecular Cell Biology</i> , 2013, 14, 49-55.	16.1	1,326
9	Cationic lipid-mediated delivery of proteins enables efficient protein-based genome editing in vitro and in vivo. <i>Nature Biotechnology</i> , 2015, 33, 73-80.	9.4	1,180
10	FLASH assembly of TALENs for high-throughput genome editing. <i>Nature Biotechnology</i> , 2012, 30, 460-465.	9.4	1,070
11	CRISPR RNA-guided activation of endogenous human genes. <i>Nature Methods</i> , 2013, 10, 977-979.	9.0	996
12	Gene therapy comes of age. <i>Science</i> , 2018, 359, .	6.0	936
13	Enhanced proofreading governs CRISPR-Cas9 targeting accuracy. <i>Nature</i> , 2017, 550, 407-410.	13.7	901
14	CRISPResso2 provides accurate and rapid genome editing sequence analysis. <i>Nature Biotechnology</i> , 2019, 37, 224-226.	9.4	891
15	Dimeric CRISPR RNA-guided FokI nucleases for highly specific genome editing. <i>Nature Biotechnology</i> , 2014, 32, 569-576.	9.4	852
16	CIRCLE-seq: a highly sensitive in vitro screen for genome-wide CRISPR-Cas9 nuclease off-targets. <i>Nature Methods</i> , 2017, 14, 607-614.	9.0	601
17	Genome-wide specificities of CRISPR-Cas Cpf1 nucleases in human cells. <i>Nature Biotechnology</i> , 2016, 34, 869-874.	9.4	566
18	Broadening the targeting range of <i>Staphylococcus aureus</i> CRISPR-Cas9 by modifying PAM recognition. <i>Nature Biotechnology</i> , 2015, 33, 1293-1298.	9.4	511

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19	Engineered CRISPR-Cas12a variants with increased activities and improved targeting ranges for gene, epigenetic and base editing. <i>Nature Biotechnology</i> , 2019, 37, 276-282.	9.4	439
20	Transcriptome-wide off-target RNA editing induced by CRISPR-guided DNA base editors. <i>Nature</i> , 2019, 569, 433-437.	13.7	434
21	Targeted disruption of DNMT1, DNMT3A and DNMT3B in human embryonic stem cells. <i>Nature Genetics</i> , 2015, 47, 469-478.	9.4	409
22	Pathways Disrupted in Human ALS Motor Neurons Identified through Genetic Correction of Mutant SOD1. <i>Cell Stem Cell</i> , 2014, 14, 781-795.	5.2	392
23	Defining and improving the genome-wide specificities of CRISPR-Cas9 nucleases. <i>Nature Reviews Genetics</i> , 2016, 17, 300-312.	7.7	380
24	An APOBEC3A-Cas9 base editor with minimized bystander and off-target activities. <i>Nature Biotechnology</i> , 2018, 36, 977-982.	9.4	328
25	CRISPR C-to-G base editors for inducing targeted DNA transversions in human cells. <i>Nature Biotechnology</i> , 2021, 39, 41-46.	9.4	328
26	Interactome Maps of Mouse Gene Regulatory Domains Reveal Basic Principles of Transcriptional Regulation. <i>Cell</i> , 2013, 155, 1507-1520.	13.5	299
27	Activation of prokaryotic transcription through arbitrary protein-protein contacts. <i>Nature</i> , 1997, 386, 627-630.	13.7	282
28	In vivo CRISPR editing with no detectable genome-wide off-target mutations. <i>Nature</i> , 2018, 561, 416-419.	13.7	274
29	High levels of AAV vector integration into CRISPR-induced DNA breaks. <i>Nature Communications</i> , 2019, 10, 4439.	5.8	257
30	CRISPR DNA base editors with reduced RNA off-target and self-editing activities. <i>Nature Biotechnology</i> , 2019, 37, 1041-1048.	9.4	236
31	Prediction of off-target activities for the end-to-end design of CRISPR guide RNAs. <i>Nature Biomedical Engineering</i> , 2018, 2, 38-47.	11.6	230
32	Discovery of widespread type I and type V CRISPR-Cas inhibitors. <i>Science</i> , 2018, 362, 240-242.	6.0	214
33	Therapeutic base editing of human hematopoietic stem cells. <i>Nature Medicine</i> , 2020, 26, 535-541.	15.2	196
34	Activities and specificities of CRISPR/Cas9 and Cas12a nucleases for targeted mutagenesis in maize. <i>Plant Biotechnology Journal</i> , 2019, 17, 362-372.	4.1	192
35	Broad specificity profiling of TALENs results in engineered nucleases with improved DNA-cleavage specificity. <i>Nature Methods</i> , 2014, 11, 429-435.	9.0	182
36	Inducible and multiplex gene regulation using CRISPR-Cpf1-based transcription factors. <i>Nature Methods</i> , 2017, 14, 1163-1166.	9.0	170

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37	A dual-deaminase CRISPR base editor enables concurrent adenine and cytosine editing. <i>Nature Biotechnology</i> , 2020, 38, 861-864.	9.4	168
38	Allele-specific gene editing prevents deafness in a model of dominant progressive hearing loss. <i>Nature Medicine</i> , 2019, 25, 1123-1130.	15.2	149
39	Dimeric CRISPR RNA-Guided FokI-dCas9 Nucleases Directed by Truncated gRNAs for Highly Specific Genome Editing. <i>Human Gene Therapy</i> , 2015, 26, 425-431.	1.4	127
40	Isocitrate Dehydrogenase Mutations Confer Dasatinib Hypersensitivity and SRC Dependence in Intrahepatic Cholangiocarcinoma. <i>Cancer Discovery</i> , 2016, 6, 727-739.	7.7	126
41	CRISPR prime editing with ribonucleoprotein complexes in zebrafish and primary human cells. <i>Nature Biotechnology</i> , 2022, 40, 189-193.	9.4	118
42	CRISPR/Cas9 Mediated Disruption of the Swedish APP Allele as a Therapeutic Approach for Early-Onset Alzheimer's Disease. <i>Molecular Therapy - Nucleic Acids</i> , 2018, 11, 429-440.	2.3	116
43	PrimeDesign software for rapid and simplified design of prime editing guide RNAs. <i>Nature Communications</i> , 2021, 12, 1034.	5.8	105
44	Allele-Specific CRISPR-Cas9 Genome Editing of the Single-Base P23H Mutation for Rhodopsin-Associated Dominant Retinitis Pigmentosa. <i>CRISPR Journal</i> , 2018, 1, 55-64.	1.4	96
45	Optimization of AsCas12a for combinatorial genetic screens in human cells. <i>Nature Biotechnology</i> , 2021, 39, 94-104.	9.4	96
46	CAUSEL: an epigenome- and genome-editing pipeline for establishing function of noncoding GWAS variants. <i>Nature Medicine</i> , 2015, 21, 1357-1363.	15.2	90
47	Chromatin regulation at the frontier of synthetic biology. <i>Nature Reviews Genetics</i> , 2015, 16, 159-171.	7.7	89
48	Continuous directed evolution of DNA-binding proteins to improve TALEN specificity. <i>Nature Methods</i> , 2015, 12, 939-942.	9.0	88
49	Systematic screening reveals a role for BRCA1 in the response to transcription-associated DNA damage. <i>Genes and Development</i> , 2014, 28, 1957-1975.	2.7	86
50	Efficient CRISPR/Cas9-mediated editing of trinucleotide repeat expansion in myotonic dystrophy patient-derived iPS and myogenic cells. <i>Nucleic Acids Research</i> , 2018, 46, 8275-8298.	6.5	78
51	Hypoxia drives transient site-specific copy gain and drug-resistant gene expression. <i>Genes and Development</i> , 2015, 29, 1018-1031.	2.7	72
52	Reply to "Genome editing with modularly assembled zinc-finger nucleases". <i>Nature Methods</i> , 2010, 7, 91-92.	9.0	71
53	Defining CRISPR-Cas9 genome-wide nuclease activities with CIRCLE-seq. <i>Nature Protocols</i> , 2018, 13, 2615-2642.	5.5	69
54	Engineering Designer Transcription Activator-Like Effector Nucleases (TALENs) by REAL or REAL-Fast Assembly. <i>Current Protocols in Molecular Biology</i> , 2012, 100, Unit 12.15.	2.9	68

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55	A Zebrafish Model of Myelodysplastic Syndrome Produced through CRISPR/Cas9 Genomic Editing. <i>Molecular and Cellular Biology</i> , 2015, 35, 789-804.	1.1	58
56	Targeted mutagenesis of zebrafish antithrombin III triggers disseminated intravascular coagulation and thrombosis, revealing insight into function. <i>Blood</i> , 2014, 124, 142-150.	0.6	52
57	Nodal patterning without Lefty inhibitory feedback is functional but fragile. <i>ELife</i> , 2017, 6, .	2.8	52
58	Open-source guideseq software for analysis of GUIDE-seq data. <i>Nature Biotechnology</i> , 2016, 34, 483-483.	9.4	49
59	Targeted Genome Editing in Human Cells Using CRISPR/Cas Nucleases and Truncated Guide RNAs. <i>Methods in Enzymology</i> , 2014, 546, 21-45.	0.4	43
60	CRISPR-SURF: discovering regulatory elements by deconvolution of CRISPR tiling screen data. <i>Nature Methods</i> , 2018, 15, 992-993.	9.0	33
61	Context influences on TALE-DNA binding revealed by quantitative profiling. <i>Nature Communications</i> , 2015, 6, 7440.	5.8	30
62	Engineering Customized TALE Nucleases (TALENs) and TALE Transcription Factors by Fast Ligation-Based Automatable Solid-Phase High-Throughput (FLASH) Assembly. <i>Current Protocols in Molecular Biology</i> , 2013, 103, Unit 12.16.	2.9	28
63	Technologies and Computational Analysis Strategies for CRISPR Applications. <i>Molecular Cell</i> , 2020, 79, 11-29.	4.5	28
64	Analysis of off-target effects in CRISPR-based gene drives in the human malaria mosquito. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	27
65	Defining genome-wide CRISPR-Cas genome-editing nuclease activity with GUIDE-seq. <i>Nature Protocols</i> , 2021, 16, 5592-5615.	5.5	27
66	Response to unexpected mutations after CRISPR-Cas9 editing in vivo. <i>Nature Methods</i> , 2018, 15, 238-239.	9.0	25
67	Impact of Genetic Variation on CRISPR-Cas Targeting. <i>CRISPR Journal</i> , 2018, 1, 159-170.	1.4	24
68	A Code of Ethics for Gene Drive Research. <i>CRISPR Journal</i> , 2021, 4, 19-24.	1.4	24
69	What's Changed with Genome Editing?. <i>Cell Stem Cell</i> , 2014, 15, 3-4.	5.2	23
70	Scalable characterization of the PAM requirements of CRISPR-Cas enzymes using HT-PAMDA. <i>Nature Protocols</i> , 2021, 16, 1511-1547.	5.5	23
71	$\text{IKK}\beta$ Kinase $\text{IKK}\beta$ Mutations in Lymphomas That Constitutively Activate Canonical Nuclear Factor $\text{NF-}\kappa\text{B}$ Signaling. <i>Journal of Biological Chemistry</i> , 2014, 289, 26960-26972.	1.6	20
72	Camptothecin resistance is determined by the regulation of topoisomerase I degradation mediated by ubiquitin proteasome pathway. <i>Oncotarget</i> , 2017, 8, 43733-43751.	0.8	20

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73	Standards needed for gene-editing errors. <i>Nature</i> , 2015, 523, 158-158.	13.7	19
74	Temporal and Spatial Post-Transcriptional Regulation of Zebrafish <i>l1</i> mRNA by Long Noncoding RNA During Brain Vascular Assembly. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 1562-1575.	1.1	19
75	Rescue of DNA-PK Signaling and T-Cell Differentiation by Targeted Genome Editing in a <i>prkdc</i> Deficient iPSC Disease Model. <i>PLoS Genetics</i> , 2015, 11, e1005239.	1.5	17
76	Augmenting and directing long-range CRISPR-mediated activation in human cells. <i>Nature Methods</i> , 2021, 18, 1075-1081.	9.0	17
77	Engineering Designer Nucleases with Customized Cleavage Specificities. <i>Current Protocols in Molecular Biology</i> , 2011, 96, Unit12.13.	2.9	16
78	Zebrafish <i>dscaml1</i> Deficiency Impairs Retinal Patterning and Oculomotor Function. <i>Journal of Neuroscience</i> , 2020, 40, 143-158.	1.7	15
79	Genome Editing: A Tool For Research and Therapy: Towards a functional understanding of variants for molecular diagnostics using genome editing. <i>Nature Medicine</i> , 2014, 20, 1103-1104.	15.2	14
80	Identifying and modifying protein-DNA and protein-protein interactions using a bacterial two-hybrid selection system. <i>Journal of Cellular Biochemistry</i> , 2001, 84, 53-57.	1.2	13
81	Cell-based artificial APC resistant to lentiviral transduction for efficient generation of CAR-T cells from various cell sources. , 2020, 8, e000990.		13
82	CRISPR-Cas9 treatment partially restores amyloid- β 42/40 in human fibroblasts with the Alzheimer's disease PSEN1 M146L mutation. <i>Molecular Therapy - Nucleic Acids</i> , 2022, 28, 450-461.	2.3	13
83	Genome Editing in Human Cells Using CRISPR/Cas Nucleases. <i>Current Protocols in Molecular Biology</i> , 2015, 112, 31.3.1-31.3.18.	2.9	12
84	Disruption of the kringle 1 domain of prothrombin leads to late onset mortality in zebrafish. <i>Scientific Reports</i> , 2020, 10, 4049.	1.6	10
85	Mutant Allele-Specific CRISPR Disruption in DYT1 Dystonia Fibroblasts Restores Cell Function. <i>Molecular Therapy - Nucleic Acids</i> , 2020, 21, 1-12.	2.3	8
86	Genome-wide functional perturbation of human microsatellite repeats using engineered zinc finger transcription factors. <i>Cell Genomics</i> , 2022, 2, 100119.	3.0	3
87	Factor X Mutant Zebrafish Tolerate a Severe Hemostatic Defect in Early Development Yet Develop Lethal Hemorrhage in Adulthood. <i>Blood</i> , 2015, 126, 426-426.	0.6	1
88	A Zebrafish Model Of Antithrombin III Deficiency Displays Bleeding and Thrombosis Secondary To Disseminated Intravascular Coagulation. <i>Blood</i> , 2013, 122, 200-200.	0.6	1
89	Combined +58 and +55 <i>BCL11A</i> enhancer Editing Yields Exceptional Efficiency, Specificity and HbF Induction in Human and NHP Preclinical Models. <i>Blood</i> , 2021, 138, 1852-1852.	0.6	1
90	Genome and Epigenome Editing: A Revolution in Science and Medicine. <i>Blood</i> , 2014, 124, SCI-10-SCI-10.	0.6	0