

# J Keith Joung

## List of Publications by Year in Descending Order

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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.

94  
papers

24,033  
citations

50  
h-index

102  
g-index

102  
ext. papers

29,124  
ext. citations

24.7  
avg, IF

7.43  
L-index

#	Paper	IF	Citations
94	CRISPR-Cas9 treatment partially restores amyloid- $\beta$ 2/40 in human fibroblasts with the Alzheimer's disease M146L mutation.. <i>Molecular Therapy - Nucleic Acids</i> , <b>2022</b> , 28, 450-461	10.7	1
93	Genome-wide functional perturbation of human microsatellite repeats using engineered zinc finger transcription factors. <i>Cell Genomics</i> , <b>2022</b> , 2, 100119		2
92	Defining genome-wide CRISPR-Cas genome-editing nuclease activity with GUIDE-seq. <i>Nature Protocols</i> , <b>2021</b> , 16, 5592-5615	18.8	0
91	Combined +58 and +55 BCL11A enhancer Editing Yields Exceptional Efficiency, Specificity and HbF Induction in Human and NHP Preclinical Models. <i>Blood</i> , <b>2021</b> , 138, 1852-1852	2.2	
90	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> , <b>2021</b> , 118,	11.5	10
89	CRISPR prime editing with ribonucleoprotein complexes in zebrafish and primary human cells. <i>Nature Biotechnology</i> , <b>2021</b> ,	44.5	30
88	Optimization of AsCas12a for combinatorial genetic screens in human cells. <i>Nature Biotechnology</i> , <b>2021</b> , 39, 94-104	44.5	34
87	CRISPR C-to-G base editors for inducing targeted DNA transversions in human cells. <i>Nature Biotechnology</i> , <b>2021</b> , 39, 41-46	44.5	116
86	A Code of Ethics for Gene Drive Research. <i>CRISPR Journal</i> , <b>2021</b> , 4, 19-24	2.5	14
85	PrimeDesign software for rapid and simplified design of prime editing guide RNAs. <i>Nature Communications</i> , <b>2021</b> , 12, 1034	17.4	32
84	Scalable characterization of the PAM requirements of CRISPR-Cas enzymes using HT-PAMDA. <i>Nature Protocols</i> , <b>2021</b> , 16, 1511-1547	18.8	4
83	Augmenting and directing long-range CRISPR-mediated activation in human cells. <i>Nature Methods</i> , <b>2021</b> , 18, 1075-1081	21.6	1
82	Mutant Allele-Specific CRISPR Disruption in DYT1 Dystonia Fibroblasts Restores Cell Function. <i>Molecular Therapy - Nucleic Acids</i> , <b>2020</b> , 21, 1-12	10.7	3
81	A dual-deaminase CRISPR base editor enables concurrent adenine and cytosine editing. <i>Nature Biotechnology</i> , <b>2020</b> , 38, 861-864	44.5	72
80	Therapeutic base editing of human hematopoietic stem cells. <i>Nature Medicine</i> , <b>2020</b> , 26, 535-541	50.5	84
79	Disruption of the kringle 1 domain of prothrombin leads to late onset mortality in zebrafish. <i>Scientific Reports</i> , <b>2020</b> , 10, 4049	4.9	2
78	Technologies and Computational Analysis Strategies for CRISPR Applications. <i>Molecular Cell</i> , <b>2020</b> , 79, 11-29	17.6	7

77	Zebrafish Deficiency Impairs Retinal Patterning and Oculomotor Function. <i>Journal of Neuroscience</i> , <b>2020</b> , 40, 143-158	6.6	3
76	Cell-based artificial APC resistant to lentiviral transduction for efficient generation of CAR-T cells from various cell sources <b>2020</b> , 8,		4
75	CRISPR DNA base editors with reduced RNA off-target and self-editing activities. <i>Nature Biotechnology</i> , <b>2019</b> , 37, 1041-1048	44.5	146
74	High levels of AAV vector integration into CRISPR-induced DNA breaks. <i>Nature Communications</i> , <b>2019</b> , 10, 4439	17.4	119
73	Transcriptome-wide off-target RNA editing induced by CRISPR-guided DNA base editors. <i>Nature</i> , <b>2019</b> , 569, 433-437	50.4	270
72	Engineered CRISPR-Cas12a variants with increased activities and improved targeting ranges for gene, epigenetic and base editing. <i>Nature Biotechnology</i> , <b>2019</b> , 37, 276-282	44.5	235
71	CRISPResso2 provides accurate and rapid genome editing sequence analysis. <i>Nature Biotechnology</i> , <b>2019</b> , 37, 224-226	44.5	326
70	Activities and specificities of CRISPR/Cas9 and Cas12a nucleases for targeted mutagenesis in maize. <i>Plant Biotechnology Journal</i> , <b>2019</b> , 17, 362-372	11.6	125
69	Allele-specific gene editing prevents deafness in a model of dominant progressive hearing loss. <i>Nature Medicine</i> , <b>2019</b> , 25, 1123-1130	50.5	84
68	Allele-Specific CRISPR-Cas9 Genome Editing of the Single-Base P23H Mutation for Rhodopsin-Associated Dominant Retinitis Pigmentosa. <i>CRISPR Journal</i> , <b>2018</b> , 1, 55-64	2.5	60
67	Impact of Genetic Variation on CRISPR-Cas Targeting. <i>CRISPR Journal</i> , <b>2018</b> , 1, 159-170	2.5	16
66	Gene therapy comes of age. <i>Science</i> , <b>2018</b> , 359,	33.3	598
65	Prediction of off-target activities for the end-to-end design of CRISPR guide RNAs. <i>Nature Biomedical Engineering</i> , <b>2018</b> , 2, 38-47	19	127
64	Response to "Unexpected mutations after CRISPR-Cas9 editing in vivo". <i>Nature Methods</i> , <b>2018</b> , 15, 238-239	6	25
63	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> , <b>2018</b> , 11, 429-440	10.7	71
62	An APOBEC3A-Cas9 base editor with minimized bystander and off-target activities. <i>Nature Biotechnology</i> , <b>2018</b> , 36, 977-982	44.5	224
61	Temporal and Spatial Post-Transcriptional Regulation of Zebrafish mRNA by Long Noncoding RNA During Brain Vascular Assembly. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2018</b> , 38, 1562-1575	9.4	12
60	CRISPR-SURF: discovering regulatory elements by deconvolution of CRISPR tiling screen data. <i>Nature Methods</i> , <b>2018</b> , 15, 992-993	21.6	17

59	Defining CRISPR-Cas9 genome-wide nuclease activities with CIRCLE-seq. <i>Nature Protocols</i> , <b>2018</b> , 13, 2615-2642	58.4	246
58	Discovery of widespread type I and type V CRISPR-Cas inhibitors. <i>Science</i> , <b>2018</b> , 362, 240-242	33.3	129
57	In vivo CRISPR editing with no detectable genome-wide off-target mutations. <i>Nature</i> , <b>2018</b> , 561, 416-419	50.4	202
56	Efficient CRISPR/Cas9-mediated editing of trinucleotide repeat expansion in myotonic dystrophy patient-derived iPSC and myogenic cells. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, 8275-8298	20.1	49
55	CIRCLE-seq: a highly sensitive in vitro screen for genome-wide CRISPR-Cas9 nuclease off-targets. <i>Nature Methods</i> , <b>2017</b> , 14, 607-614	21.6	397
54	Inducible and multiplex gene regulation using CRISPR-Cpf1-based transcription factors. <i>Nature Methods</i> , <b>2017</b> , 14, 1163-1166	21.6	132
53	Enhanced proofreading governs CRISPR-Cas9 targeting accuracy. <i>Nature</i> , <b>2017</b> , 550, 407-410	50.4	619
52	Camptothecin resistance is determined by the regulation of topoisomerase I degradation mediated by ubiquitin proteasome pathway. <i>Oncotarget</i> , <b>2017</b> , 8, 43733-43751	3.3	15
51	Nodal patterning without Lefty inhibitory feedback is functional but fragile. <i>ELife</i> , <b>2017</b> , 6,	8.9	31
50	Genome-wide specificities of CRISPR-Cas Cpf1 nucleases in human cells. <i>Nature Biotechnology</i> , <b>2016</b> , 34, 869-74	44.5	415
49	High-fidelity CRISPR-Cas9 nucleases with no detectable genome-wide off-target effects. <i>Nature</i> , <b>2016</b> , 529, 490-5	50.4	1600
48	Isocitrate Dehydrogenase Mutations Confer Dasatinib Hypersensitivity and SRC Dependence in Intrahepatic Cholangiocarcinoma. <i>Cancer Discovery</i> , <b>2016</b> , 6, 727-39	24.4	94
47	Defining and improving the genome-wide specificities of CRISPR-Cas9 nucleases. <i>Nature Reviews Genetics</i> , <b>2016</b> , 17, 300-12	30.1	305
46	Open-source guideseq software for analysis of GUIDE-seq data. <i>Nature Biotechnology</i> , <b>2016</b> , 34, 483	44.5	34
45	Unwanted mutations: Standards needed for gene-editing errors. <i>Nature</i> , <b>2015</b> , 523, 158	50.4	15
44	Engineered CRISPR-Cas9 nucleases with altered PAM specificities. <i>Nature</i> , <b>2015</b> , 523, 481-5	50.4	1061
43	Context influences on TALE-DNA binding revealed by quantitative profiling. <i>Nature Communications</i> , <b>2015</b> , 6, 7440	17.4	22
42	Rescue of DNA-PK Signaling and T-Cell Differentiation by Targeted Genome Editing in a prkdc Deficient iPSC Disease Model. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1005239	6	11

41	Targeted disruption of DNMT1, DNMT3A and DNMT3B in human embryonic stem cells. <i>Nature Genetics</i> , <b>2015</b> , 47, 469-78	36.3	288
40	CAUSEL: an epigenome- and genome-editing pipeline for establishing function of noncoding GWAS variants. <i>Nature Medicine</i> , <b>2015</b> , 21, 1357-63	50.5	65
39	Broadening the targeting range of Staphylococcus aureus CRISPR-Cas9 by modifying PAM recognition. <i>Nature Biotechnology</i> , <b>2015</b> , 33, 1293-1298	44.5	381
38	Continuous directed evolution of DNA-binding proteins to improve TALEN specificity. <i>Nature Methods</i> , <b>2015</b> , 12, 939-42	21.6	74
37	Hypoxia drives transient site-specific copy gain and drug-resistant gene expression. <i>Genes and Development</i> , <b>2015</b> , 29, 1018-31	12.6	55
36	GUIDE-seq enables genome-wide profiling of off-target cleavage by CRISPR-Cas nucleases. <i>Nature Biotechnology</i> , <b>2015</b> , 33, 187-197	44.5	1275
35	A zebrafish model of myelodysplastic syndrome produced through tet2 genomic editing. <i>Molecular and Cellular Biology</i> , <b>2015</b> , 35, 789-804	4.8	45
34	Cationic lipid-mediated delivery of proteins enables efficient protein-based genome editing in vitro and in vivo. <i>Nature Biotechnology</i> , <b>2015</b> , 33, 73-80	44.5	904
33	Genome Editing in Human Cells Using CRISPR/Cas Nucleases. <i>Current Protocols in Molecular Biology</i> , <b>2015</b> , 112, 31.3.1-31.3.18	2.9	10
32	Dimeric CRISPR RNA-Guided FokI-Cas9 Nucleases Directed by Truncated gRNAs for Highly Specific Genome Editing. <i>Human Gene Therapy</i> , <b>2015</b> , 26, 425-31	4.8	106
31	Chromatin regulation at the frontier of synthetic biology. <i>Nature Reviews Genetics</i> , <b>2015</b> , 16, 159-71	30.1	76
30	Factor X Mutant Zebrafish Tolerate a Severe Hemostatic Defect in Early Development Yet Develop Lethal Hemorrhage in Adulthood. <i>Blood</i> , <b>2015</b> , 126, 426-426	2.2	1
29	Broad specificity profiling of TALENs results in engineered nucleases with improved DNA-cleavage specificity. <i>Nature Methods</i> , <b>2014</b> , 11, 429-35	21.6	157
28	CRISPR-Cas systems for editing, regulating and targeting genomes. <i>Nature Biotechnology</i> , <b>2014</b> , 32, 347-55	44.5	2182
27	Pathways disrupted in human ALS motor neurons identified through genetic correction of mutant SOD1. <i>Cell Stem Cell</i> , <b>2014</b> , 14, 781-95	18	300
26	Dimeric CRISPR RNA-guided FokI nucleases for highly specific genome editing. <i>Nature Biotechnology</i> , <b>2014</b> , 32, 569-76	44.5	738
25	Improving CRISPR-Cas nuclease specificity using truncated guide RNAs. <i>Nature Biotechnology</i> , <b>2014</b> , 32, 279-284	44.5	1371
24	IB kinase $\kappa$ (IKBKB) mutations in lymphomas that constitutively activate canonical nuclear factor $\kappa$ B (NF $\kappa$ B) signaling. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 26960-26972	5.4	16

23	Genome editing: a tool for research and therapy: towards a functional understanding of variants for molecular diagnostics using genome editing. <i>Nature Medicine</i> , <b>2014</b> , 20, 1103-4	50.5	9
22	What's changed with genome editing?. <i>Cell Stem Cell</i> , <b>2014</b> , 15, 3-4	18	21
21	Targeted mutagenesis of zebrafish antithrombin III triggers disseminated intravascular coagulation and thrombosis, revealing insight into function. <i>Blood</i> , <b>2014</b> , 124, 142-50	2.2	39
20	Targeted genome editing in human cells using CRISPR/Cas nucleases and truncated guide RNAs. <i>Methods in Enzymology</i> , <b>2014</b> , 546, 21-45	1.7	33
19	Systematic screening reveals a role for BRCA1 in the response to transcription-associated DNA damage. <i>Genes and Development</i> , <b>2014</b> , 28, 1957-75	12.6	66
18	CRISPR RNA-guided activation of endogenous human genes. <i>Nature Methods</i> , <b>2013</b> , 10, 977-9	21.6	789
17	Interactome maps of mouse gene regulatory domains reveal basic principles of transcriptional regulation. <i>Cell</i> , <b>2013</b> , 155, 1507-20	56.2	255
16	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> , <b>2013</b> , Chapter 12, Unit 12.16	2.9	20
15	TALENs: a widely applicable technology for targeted genome editing. <i>Nature Reviews Molecular Cell Biology</i> , <b>2013</b> , 14, 49-55	48.7	1072
14	Efficient genome editing in zebrafish using a CRISPR-Cas system. <i>Nature Biotechnology</i> , <b>2013</b> , 31, 227-9	44.5	2094
13	High-frequency off-target mutagenesis induced by CRISPR-Cas nucleases in human cells. <i>Nature Biotechnology</i> , <b>2013</b> , 31, 822-6	44.5	2178
12	A Zebrafish Model Of Antithrombin III Deficiency Displays Bleeding and Thrombosis Secondary To Disseminated Intravascular Coagulation. <i>Blood</i> , <b>2013</b> , 122, 200-200	2.2	
11	Engineering designer transcription activator-like effector nucleases (TALENs) by REAL or REAL-Fast assembly. <i>Current Protocols in Molecular Biology</i> , <b>2012</b> , Chapter 12, Unit 12.15	2.9	65
10	FLASH assembly of TALENs for high-throughput genome editing. <i>Nature Biotechnology</i> , <b>2012</b> , 30, 460-5	44.5	830
9	Engineering designer nucleases with customized cleavage specificities. <i>Current Protocols in Molecular Biology</i> , <b>2011</b> , Chapter 12, Unit 12.13	2.9	15
8	Reply to "Genome editing with modularly assembled zinc-finger nucleases" <i>Nature Methods</i> , <b>2010</b> , 7, 91-92	21.6	70
7	Identifying and modifying protein-DNA and protein-protein interactions using a bacterial two-hybrid selection system. <i>Journal of Cellular Biochemistry</i> , <b>2001</b> , Suppl 37, 53-7	4.7	10
6	Activation of prokaryotic transcription through arbitrary protein-protein contacts. <i>Nature</i> , <b>1997</b> , 386, 627-30	50.4	253

5	PrimeDesign software for rapid and simplified design of prime editing guide RNAs	8
4	Analysis and comparison of genome editing using CRISPResso2	4
3	CRISPR adenine and cytosine base editors with reduced RNA off-target activities	6
2	Optimization of AsCas12a for combinatorial genetic screens in human cells	11
1	Global-scale CRISPR gene editor specificity profiling by ONE-seq identifies population-specific, variant off-target effects	2