

Martin Jinek

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.

84
papers

18,993
citations

39
h-index

106
g-index

106
ext. papers

23,488
ext. citations

15.2
avg, IF

7.06
L-index

#	Paper	IF	Citations
84	A programmable dual-RNA-guided DNA endonuclease in adaptive bacterial immunity. <i>Science</i> , 2012 , 337, 816-21	33.3	9062
83	RNA-programmed genome editing in human cells. <i>ELife</i> , 2013 , 2, e00471	8.9	1443
82	DNA interrogation by the CRISPR RNA-guided endonuclease Cas9. <i>Nature</i> , 2014 , 507, 62-7	50.4	1171
81	Structural basis of PAM-dependent target DNA recognition by the Cas9 endonuclease. <i>Nature</i> , 2014 , 513, 569-73	50.4	783
80	Structures of Cas9 endonucleases reveal RNA-mediated conformational activation. <i>Science</i> , 2014 , 343, 1247997	33.3	701
79	A three-dimensional view of the molecular machinery of RNA interference. <i>Nature</i> , 2009 , 457, 405-12	50.4	565
78	Sequence- and structure-specific RNA processing by a CRISPR endonuclease. <i>Science</i> , 2010 , 329, 1355-8	33.3	504
77	Structural biology of nucleocytoplasmic transport. <i>Annual Review of Biochemistry</i> , 2007 , 76, 647-71	29.1	422
76	Biotechnology. A prudent path forward for genomic engineering and germline gene modification. <i>Science</i> , 2015 , 348, 36-8	33.3	413
75	Mammalian miRNA RISC recruits CAF1 and PABP to affect PABP-dependent deadenylation. <i>Molecular Cell</i> , 2009 , 35, 868-80	17.6	301
74	Structural insights into the molecular mechanism of the m(6)A writer complex. <i>ELife</i> , 2016 , 5,	8.9	256
73	Type III CRISPR-Cas systems produce cyclic oligoadenylate second messengers. <i>Nature</i> , 2017 , 548, 543-548	50.4	226
72	Structural Basis for Guide RNA Processing and Seed-Dependent DNA Targeting by CRISPR-Cas12a. <i>Molecular Cell</i> , 2017 , 66, 221-233.e4	17.6	225
71	The superhelical TPR-repeat domain of O-linked GlcNAc transferase exhibits structural similarities to importin alpha. <i>Nature Structural and Molecular Biology</i> , 2004 , 11, 1001-7	17.6	219
70	Structural basis for DNase activity of a conserved protein implicated in CRISPR-mediated genome defense. <i>Structure</i> , 2009 , 17, 904-12	5.2	198
69	Maximizing mutagenesis with solubilized CRISPR-Cas9 ribonucleoprotein complexes. <i>Development (Cambridge)</i> , 2016 , 143, 2025-37	6.6	163
68	An RNA-induced conformational change required for CRISPR RNA cleavage by the endoribonuclease Cse3. <i>Nature Structural and Molecular Biology</i> , 2011 , 18, 680-7	17.6	149

67	Mechanistic Insights into the cis- and trans-Acting DNase Activities of Cas12a. <i>Molecular Cell</i> , 2019 , 73, 589-600.e4	17.6	121
66	Structural Plasticity of PAM Recognition by Engineered Variants of the RNA-Guided Endonuclease Cas9. <i>Molecular Cell</i> , 2016 , 61, 895-902	17.6	120
65	Coupled 5Tnucleotide recognition and processivity in Xrn1-mediated mRNA decay. <i>Molecular Cell</i> , 2011 , 41, 600-8	17.6	114
64	Cas9 versus Cas12a/Cpf1: Structure-function comparisons and implications for genome editing. <i>Wiley Interdisciplinary Reviews RNA</i> , 2018 , 9, e1481	9.3	103
63	CrispRVariants charts the mutation spectrum of genome engineering experiments. <i>Nature Biotechnology</i> , 2016 , 34, 701-2	44.5	101
62	Structural basis for the endoribonuclease activity of the type III-A CRISPR-associated protein Csm6. <i>Rna</i> , 2016 , 22, 318-29	5.8	95
61	Structures of the tRNA export factor in the nuclear and cytosolic states. <i>Nature</i> , 2009 , 461, 60-5	50.4	94
60	CRISPR-Cas9 conformational activation as elucidated from enhanced molecular simulations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 7260-7265	11.5	91
59	Covalent linkage of the DNA repair template to the CRISPR-Cas9 nuclease enhances homology-directed repair. <i>ELife</i> , 2018 , 7,	8.9	88
58	Structural insights into the human GW182-PABC interaction in microRNA-mediated deadenylation. <i>Nature Structural and Molecular Biology</i> , 2010 , 17, 238-40	17.6	83
57	Striking Plasticity of CRISPR-Cas9 and Key Role of Non-target DNA, as Revealed by Molecular Simulations. <i>ACS Central Science</i> , 2016 , 2, 756-763	16.8	67
56	Protospacer Adjacent Motif-Induced Allostery Activates CRISPR-Cas9. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16028-16031	16.4	66
55	In vitro enzymology of Cas9. <i>Methods in Enzymology</i> , 2014 , 546, 1-20	1.7	66
54	An internal promoter underlies the difference in disease severity between N- and C-terminal truncation mutations of Titin in zebrafish. <i>ELife</i> , 2015 , 4, e09406	8.9	61
53	Evolution of CRISPR RNA recognition and processing by Cas6 endonucleases. <i>Nucleic Acids Research</i> , 2014 , 42, 1341-53	20.1	58
52	Deciphering Off-Target Effects in CRISPR-Cas9 through Accelerated Molecular Dynamics. <i>ACS Central Science</i> , 2019 , 5, 651-662	16.8	57
51	Structural basis of AAUAAA polyadenylation signal recognition by the human CPSF complex. <i>Nature Structural and Molecular Biology</i> , 2018 , 25, 135-138	17.6	57
50	Structural insights into the assembly and polyA signal recognition mechanism of the human CPSF complex. <i>ELife</i> , 2017 , 6,	8.9	52

49	In vivo adenine base editing of PCSK9 in macaques reduces LDL cholesterol levels. <i>Nature Biotechnology</i> , 2021 , 39, 949-957	44.5	50
48	Mechanistic insights into mRNA 3' end processing. <i>Current Opinion in Structural Biology</i> , 2019 , 59, 143-150	1	47
47	Key role of the REC lobe during CRISPR-Cas9 activation by sensing, regulating and locking the catalytic HNH domain. <i>Quarterly Reviews of Biophysics</i> , 2018 , 51,	7	42
46	Molecular architectures and mechanisms of Class 2 CRISPR-associated nucleases. <i>Current Opinion in Structural Biology</i> , 2017 , 47, 157-166	8.1	40
45	Molecular basis for cytoplasmic RNA surveillance by uridylation-triggered decay in <i>Drosophila</i> . <i>EMBO Journal</i> , 2016 , 35, 2417-2434	13	39
44	Data-collection strategy for challenging native SAD phasing. <i>Acta Crystallographica Section D: Structural Biology</i> , 2016 , 72, 421-9	5.5	35
43	DNA-guided DNA cleavage at moderate temperatures by <i>Clostridium butyricum</i> Argonaute. <i>Nucleic Acids Research</i> , 2019 , 47, 5809-5821	20.1	34
42	Activation and self-inactivation mechanisms of the cyclic oligoadenylate-dependent CRISPR ribonuclease Csm6. <i>Nature Communications</i> , 2020 , 11, 1596	17.4	34
41	Bacteriophage DNA glucosylation impairs target DNA binding by type I and II but not by type V CRISPR-Cas effector complexes. <i>Nucleic Acids Research</i> , 2018 , 46, 873-885	20.1	34
40	Structural insights into the Notch-modifying glycosyltransferase Fringe. <i>Nature Structural and Molecular Biology</i> , 2006 , 13, 945-6	17.6	31
39	Molecular architecture of LSM14 interactions involved in the assembly of mRNA silencing complexes. <i>EMBO Journal</i> , 2018 , 37,	13	27
38	Structural mimicry in transcription regulation of human RNA polymerase II by the DNA helicase RECQL5. <i>Nature Structural and Molecular Biology</i> , 2013 , 20, 892-9	17.6	25
37	Structural and biochemical studies of a fluoroacetyl-CoA-specific thioesterase reveal a molecular basis for fluorine selectivity. <i>Biochemistry</i> , 2010 , 49, 9269-79	3.2	24
36	Catalytic Mechanism of Non-Target DNA Cleavage in CRISPR-Cas9 Revealed by Molecular Dynamics. <i>ACS Catalysis</i> , 2020 , 10, 13596-13605	13.1	24
35	The C-terminal region of Ge-1 presents conserved structural features required for P-body localization. <i>Rna</i> , 2008 , 14, 1991-8	5.8	23
34	In Vitro Reconstitution and Crystallization of Cas9 Endonuclease Bound to a Guide RNA and a DNA Target. <i>Methods in Enzymology</i> , 2015 , 558, 515-537	1.7	19
33	Molecular mechanism of the RNA helicase DHX37 and its activation by UTP14A in ribosome biogenesis. <i>Rna</i> , 2019 , 25, 685-701	5.8	16
32	Molecular Dynamics Reveals a DNA-Induced Dynamic Switch Triggering Activation of CRISPR-Cas12a. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 6427-6437	6.1	13

31	Introducing gene deletions by mouse zygote electroporation of Cas12a/Cpf1. <i>Transgenic Research</i> , 2019 , 28, 525-535	3.3	12
30	Human MARF1 is an endoribonuclease that interacts with the DCP1:2 decapping complex and degrades target mRNAs. <i>Nucleic Acids Research</i> , 2018 , 46, 12008-12021	20.1	12
29	Use of RNA tertiary interaction modules for the crystallisation of the spliceosomal snRNP core domain. <i>Journal of Molecular Biology</i> , 2010 , 402, 154-64	6.5	11
28	Crystal structure of the C-terminal 2T5Tphosphodiesterase domain of group A rotavirus protein VP3. <i>Proteins: Structure, Function and Bioinformatics</i> , 2015 , 83, 997-1002	4.2	9
27	Heterologous Expression and Purification of CRISPR-Cas12a/Cpf1. <i>Bio-protocol</i> , 2018 , 8, e2842	0.9	9
26	Hakai is required for stabilization of core components of the mA mRNA methylation machinery. <i>Nature Communications</i> , 2021 , 12, 3778	17.4	9
25	Generation of CRISPR-Cas9 Complexes with Covalently Bound Repair Templates for Genome Editing in Mammalian Cells. <i>Bio-protocol</i> , 2019 , 9,	0.9	8
24	ANGEL2 is a member of the CCR4 family of deadenylases with 2T3Tcyclic phosphatase activity. <i>Science</i> , 2020 , 369, 524-530	33.3	8
23	Structural basis for acceptor RNA substrate selectivity of the 3Tterminal uridylyl transferase Tailor. <i>Nucleic Acids Research</i> , 2019 , 47, 1030-1042	20.1	7
22	Preparation and electroporation of Cas12a/Cpf1-guide RNA complexes for introducing large gene deletions in mouse embryonic stem cells. <i>Methods in Enzymology</i> , 2019 , 616, 241-263	1.7	7
21	Conformational control of Cas9 by CRISPR hybrid RNA-DNA guides mitigates off-target activity in T'cells. <i>Molecular Cell</i> , 2021 , 81, 3637-3649.e5	17.6	6
20	Specialized Weaponry: How a Type III-A CRISPR-Cas System Excels at Combating Phages. <i>Cell Host and Microbe</i> , 2017 , 22, 258-259	23.4	4
19	Covalent linkage of the DNA repair template to the CRISPR/Cas9 complex enhances homology-directed repair		4
18	Molecular mechanism of off-target effects in CRISPR-Cas9		4
17	DNA-guided DNA cleavage at moderate temperatures by Clostridium butyricum Argonaute		4
16	Mechanistic Insights into theCis-andTrans-acting Deoxyribonuclease Activities of Cas12a		3
15	CRISPR-Directed Therapeutic Correction at the Locus Is Challenged by Frequent Incidence of Chromosomal Deletions. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020 , 17, 936-943	6.4	3
14	Mechanism of R-loop formation and conformational activation of Cas9		3

13	Two-Metal Ion Mechanism of DNA Cleavage in CRISPR-Cas9. <i>Biophysical Journal</i> , 2020 , 118, 64a	2.9	2
12	Target site selection and remodelling by type V CRISPR-transposon systems. <i>Nature</i> , 2021 , 599, 497-502	50.4	2
11	Molecular architecture of the human tRNA ligase complex. <i>ELife</i> , 2021 , 10,	8.9	2
10	Author response: Covalent linkage of the DNA repair template to the CRISPR-Cas9 nuclease enhances homology-directed repair 2018 ,		2
9	CrispRVariants: precisely charting the mutation spectrum in genome engineering experiments		2
8	Type III CRISPR-Cas systems generate cyclic oligoadenylate second messengers to activate Csm6 RNases		2
7	The oxidoreductase PYROXD1 uses NAD(P) as an antioxidant to sustain tRNA ligase activity in pre-tRNA splicing and unfolded protein response. <i>Molecular Cell</i> , 2021 , 81, 2520-2532.e16	17.6	2
6	Structural basis for Cas9 off-target activity		1
5	The CRISPR-RNA World: An Interview with Martin Jinek. <i>CRISPR Journal</i> , 2020 , 3, 68-72	2.5	1
4	Multiplexed Single-Molecule Experiments Reveal Nucleosome Invasion Dynamics of the Cas9 Genome Editor. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16313-16319	16.4	1
3	Eukaryotic expression, purification, crystallization and preliminary X-ray analysis of murine Manic Fringe. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006 , 62, 774-7		
2	Uncut but Primed for Change. <i>CRISPR Journal</i> , 2019 , 2, 352-354	2.5	
1	Cover Image, Volume 9, Issue 5. <i>Wiley Interdisciplinary Reviews RNA</i> , 2018 , 9, e1505	9.3	