

Jennifer A Doudna

List of Publications by Year in descending order

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Version: 2024-02-01

235
papers

76,560
citations

1877

105
h-index

1285

231
g-index

291
all docs

291
docs citations

291
times ranked

56241
citing authors

#	ARTICLE	IF	CITATIONS
1	CRISPR-Cas9-mediated nuclear transport and genomic integration of nanostructured genes in human primary cells. <i>Nucleic Acids Research</i> , 2022, 50, 1256-1268.	6.5	39
2	Species- and site-specific genome editing in complex bacterial communities. <i>Nature Microbiology</i> , 2022, 7, 34-47.	5.9	127
3	Chimeric CRISPR-CasX enzymes and guide RNAs for improved genome editing activity. <i>Molecular Cell</i> , 2022, 82, 1199-1209.e6.	4.5	29
4	Neutralizing immunity in vaccine breakthrough infections from the SARS-CoV-2 Omicron and Delta variants. <i>Cell</i> , 2022, 185, 1539-1548.e5.	13.5	126
5	A functional map of HIV-host interactions in primary human T cells. <i>Nature Communications</i> , 2022, 13, 1752.	5.8	27
6	CRISPR-Cas9 bends and twists DNA to read its sequence. <i>Nature Structural and Molecular Biology</i> , 2022, 29, 395-402.	3.6	37
7	Crystal structure of an RNA/DNA strand exchange junction. <i>PLoS ONE</i> , 2022, 17, e0263547.	1.1	3
8	Structural biology of CRISPR-Cas immunity and genome editing enzymes. <i>Nature Reviews Microbiology</i> , 2022, 20, 641-656.	13.6	78
9	Limited cross-variant immunity from SARS-CoV-2 Omicron without vaccination. <i>Nature</i> , 2022, 607, 351-355.	13.7	143
10	A naturally DNase-free CRISPR-Cas12c enzyme silences gene expression. <i>Molecular Cell</i> , 2022, 82, 2148-2160.e4.	4.5	25
11	Amplification-free detection of SARS-CoV-2 with CRISPR-Cas13a and mobile phone microscopy. <i>Cell</i> , 2021, 184, 323-333.e9.	13.5	613
12	Controlling and enhancing CRISPR systems. <i>Nature Chemical Biology</i> , 2021, 17, 10-19.	3.9	108
13	Massively parallel kinetic profiling of natural and engineered CRISPR nucleases. <i>Nature Biotechnology</i> , 2021, 39, 84-93.	9.4	80
14	Genome-resolved metagenomics reveals site-specific diversity of episymbiotic CPR bacteria and DPANN archaea in groundwater ecosystems. <i>Nature Microbiology</i> , 2021, 6, 354-365.	5.9	109
15	Human Molecular Genetics and Genomics – Important Advances and Exciting Possibilities. <i>New England Journal of Medicine</i> , 2021, 384, 1-4.	13.9	37
16	Quantification of Cas9 binding and cleavage across diverse guide sequences maps landscapes of target engagement. <i>Science Advances</i> , 2021, 7, .	4.7	28
17	Cancer-specific loss of <i>TERT</i> activation sensitizes glioblastoma to DNA damage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	28
18	The NIH Somatic Cell Genome Editing program. <i>Nature</i> , 2021, 592, 195-204.	13.7	84

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19	Structural coordination between active sites of a CRISPR reverse transcriptase-integrase complex. <i>Nature Communications</i> , 2021, 12, 2571.	5.8	12
20	Launching a saliva-based SARS-CoV-2 surveillance testing program on a university campus. <i>PLoS ONE</i> , 2021, 16, e0251296.	1.1	15
21	Targeted delivery of CRISPR-Cas9 and transgenes enables complex immune cell engineering. <i>Cell Reports</i> , 2021, 35, 109207.	2.9	91
22	DNA interference states of the hypercompact CRISPR-Cas1 effector. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 652-661.	3.6	50
23	Accelerated RNA detection using tandem CRISPR nucleases. <i>Nature Chemical Biology</i> , 2021, 17, 982-988.	3.9	135
24	Robotic RNA extraction for SARS-CoV-2 surveillance using saliva samples. <i>PLoS ONE</i> , 2021, 16, e0255690.	1.1	14
25	Synthesis of Multi-Protein Complexes through Charge-Directed Sequential Activation of Tyrosine Residues. <i>Journal of the American Chemical Society</i> , 2021, 143, 13538-13547.	6.6	18
26	Kinetic analysis of Cas12a and Cas13a RNA-Guided nucleases for development of improved CRISPR-Based diagnostics. <i>IScience</i> , 2021, 24, 102996.	1.9	57
27	Comprehensive deletion landscape of CRISPR-Cas9 identifies minimal RNA-guided DNA-binding modules. <i>Nature Communications</i> , 2021, 12, 5664.	5.8	25
28	OUP accepted manuscript. <i>Nucleic Acids Research</i> , 2021, 49, 3546-3556.	6.5	9
29	LuNER: Multiplexed SARS-CoV-2 detection in clinical swab and wastewater samples. <i>PLoS ONE</i> , 2021, 16, e0258263.	1.1	5
30	Optimizing COVID-19 control with asymptomatic surveillance testing in a university environment. <i>Epidemics</i> , 2021, 37, 100527.	1.5	21
31	Rapid assessment of SARS-CoV-2 evolved variants using virus-like particles. <i>Science</i> , 2021, 374, 1626-1632.	6.0	216
32	CRISPR-Cas1 from huge phages is a hypercompact genome editor. <i>Science</i> , 2020, 369, 333-337.	6.0	352
33	Engineering of monosized lipid-coated mesoporous silica nanoparticles for CRISPR delivery. <i>Acta Biomaterialia</i> , 2020, 114, 358-368.	4.1	62
34	DNA capture by a CRISPR-Cas9 guided adenine base editor. <i>Science</i> , 2020, 369, 566-571.	6.0	114
35	Chemistry of Class 1 CRISPR-Cas effectors: Binding, editing, and regulation. <i>Journal of Biological Chemistry</i> , 2020, 295, 14473-14487.	1.6	49
36	Site-Specific Bioconjugation through Enzyme-Catalyzed Tyrosine-Cysteine Bond Formation. <i>ACS Central Science</i> , 2020, 6, 1564-1571.	5.3	60

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37	Blueprint for a pop-up SARS-CoV-2 testing lab. <i>Nature Biotechnology</i> , 2020, 38, 791-797.	9.4	50
38	Phage-assisted evolution of an adenine base editor with improved Cas domain compatibility and activity. <i>Nature Biotechnology</i> , 2020, 38, 883-891.	9.4	502
39	Potent CRISPR-Cas9 inhibitors from <i>Staphylococcus</i> genomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6531-6539.	3.3	47
40	Cas9 interrogates DNA in discrete steps modulated by mismatches and supercoiling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 5853-5860.	3.3	62
41	A scoutRNA Is Required for Some Type V CRISPR-Cas Systems. <i>Molecular Cell</i> , 2020, 79, 416-424.e5.	4.5	49
42	Clades of huge phages from across Earth's ecosystems. <i>Nature</i> , 2020, 578, 425-431.	13.7	331
43	The promise and challenge of therapeutic genome editing. <i>Nature</i> , 2020, 578, 229-236.	13.7	599
44	Knocking out barriers to engineered cell activity. <i>Science</i> , 2020, 367, 976-977.	6.0	10
45	Machine learning predicts new anti-CRISPR proteins. <i>Nucleic Acids Research</i> , 2020, 48, 4698-4708.	6.5	70
46	CRISPR-Cas12a exploits R-loop asymmetry to form double-strand breaks. <i>ELife</i> , 2020, 9, .	2.8	80
47	Attachment of a 32P-phosphate to the 3' Terminus of a DNA Oligonucleotide. <i>Bio-protocol</i> , 2020, 10, e3787.	0.2	0
48	Target preference of Type III-A CRISPR-Cas complexes at the transcription bubble. <i>Nature Communications</i> , 2019, 10, 3001.	5.8	40
49	CRISPR's unwanted anniversary. <i>Science</i> , 2019, 366, 777-777.	6.0	12
50	A Functional Mini-Integrase in a Two-Protein Type V-C CRISPR System. <i>Molecular Cell</i> , 2019, 73, 727-737.e3.	4.5	22
51	Spacer Acquisition Rates Determine the Immunological Diversity of the Type II CRISPR-Cas Immune Response. <i>Cell Host and Microbe</i> , 2019, 25, 242-249.e3.	5.1	24
52	Inhibition of CRISPR-Cas9 ribonucleoprotein complex assembly by anti-CRISPR AcrIIc2. <i>Nature Communications</i> , 2019, 10, 2806.	5.8	50
53	Controlling CRISPR-Cas9 with ligand-activated and ligand-deactivated sgRNAs. <i>Nature Communications</i> , 2019, 10, 2127.	5.8	133
54	Deciphering Off-Target Effects in CRISPR-Cas9 through Accelerated Molecular Dynamics. <i>ACS Central Science</i> , 2019, 5, 651-662.	5.3	99

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55	Nontoxic nanopore electroporation for effective intracellular delivery of biological macromolecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 7899-7904.	3.3	120
56	Broad-spectrum enzymatic inhibition of CRISPR-Cas12a. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 315-321.	3.6	99
57	The NAI Fellow Profile: An Interview with Dr. Jennifer Doudna. <i>Technology and Innovation</i> , 2019, 20, 475-481.	0.2	0
58	Reply to Nathamgari et al.: Nanopore electroporation for intracellular delivery of biological macromolecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22911-22911.	3.3	4
59	CRISPR-Cas9 genome engineering of primary CD4+ T cells for the interrogation of HIV-host factor interactions. <i>Nature Protocols</i> , 2019, 14, 1-27.	5.5	98
60	Temperature-Responsive Competitive Inhibition of CRISPR-Cas9. <i>Molecular Cell</i> , 2019, 73, 601-610.e5.	4.5	67
61	CRISPR-Cas9 Circular Permutants as Programmable Scaffolds for Genome Modification. <i>Cell</i> , 2019, 176, 254-267.e16.	13.5	73
62	CasX enzymes comprise a distinct family of RNA-guided genome editors. <i>Nature</i> , 2019, 566, 218-223.	13.7	346
63	Structural basis for AcrVA4 inhibition of specific CRISPR-Cas12a. <i>ELife</i> , 2019, 8, .	2.8	41
64	CRISPR System: From Adaptive Immunity to Genome Editing. , 2019, , 81-116.		0
65	Receptor-Mediated Delivery of CRISPR-Cas9 Endonuclease for Cell-Type-Specific Gene Editing. <i>Journal of the American Chemical Society</i> , 2018, 140, 6596-6603.	6.6	127
66	CRISPR-Cas12a target binding unleashes indiscriminate single-stranded DNase activity. <i>Science</i> , 2018, 360, 436-439.	6.0	2,355
67	Programmable RNA recognition using a CRISPR-associated Argonaute. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3368-3373.	3.3	41
68	Genomes in Focus: Development and Applications of CRISPR-Cas9 Imaging Technologies. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4329-4337.	7.2	67
69	Genome im Fokus: Entwicklung und Anwendungen von CRISPR-Cas9-Bildgebungstechnologien. <i>Angewandte Chemie</i> , 2018, 130, 4412-4420.	1.6	7
70	A Unified Resource for Tracking Anti-CRISPR Names. <i>CRISPR Journal</i> , 2018, 1, 304-305.	1.4	94
71	Programmed DNA destruction by miniature CRISPR-Cas14 enzymes. <i>Science</i> , 2018, 362, 839-842.	6.0	757
72	Systematic discovery of natural CRISPR-Cas12a inhibitors. <i>Science</i> , 2018, 362, 236-239.	6.0	174

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73	Key role of the REC lobe during CRISPR-Cas9 activation by "sensing", "regulating", and "locking" the catalytic HNH domain. Quarterly Reviews of Biophysics, 2018, 51, .	2.4	79
74	Disruption of the Î²1L Isoform of GABP Reverses Glioblastoma Replicative Immortality in a TERT Promoter Mutation-Dependent Manner. Cancer Cell, 2018, 34, 513-528.e8.	7.7	103
75	CRISPR-Cas guides the future of genetic engineering. Science, 2018, 361, 866-869.	6.0	1,024
76	RNA-dependent RNA targeting by CRISPR-Cas9. ELife, 2018, 7, .	2.8	152
77	The Psychiatric Cell Map Initiative: A Convergent Systems Biological Approach to Illuminating Key Molecular Pathways in Neuropsychiatric Disorders. Cell, 2018, 174, 505-520.	13.5	108
78	RNA Binding and HEPN-Nuclease Activation Are Decoupled in CRISPR-Cas13a. Cell Reports, 2018, 24, 1025-1036.	2.9	108
79	Applications of CRISPR-Cas Enzymes in Cancer Therapeutics and Detection. Trends in Cancer, 2018, 4, 499-512.	3.8	89
80	Efficient genome editing in the mouse brain by local delivery of engineered Cas9 ribonucleoprotein complexes. Nature Biotechnology, 2017, 35, 431-434.	9.4	278
81	RNA-based recognition and targeting: sowing the seeds of specificity. Nature Reviews Molecular Cell Biology, 2017, 18, 215-228.	16.1	167
82	Targeted gene knock-in by homology-directed genome editing using Cas9 ribonucleoprotein and AAV donor delivery. Nucleic Acids Research, 2017, 45, e98-e98.	6.5	72
83	High-throughput biochemical profiling reveals sequence determinants of dCas9 off-target binding and unbinding. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5461-5466.	3.3	165
84	RNA Targeting by Functionally Orthogonal Type VI-A CRISPR-Cas Enzymes. Molecular Cell, 2017, 66, 373-383.e3.	4.5	229
85	CRISPR-Cas9 Structures and Mechanisms. Annual Review of Biophysics, 2017, 46, 505-529.	4.5	1,289
86	Mutations in Cas9 Enhance the Rate of Acquisition of Viral Spacer Sequences during the CRISPR-Cas Immune Response. Molecular Cell, 2017, 65, 168-175.	4.5	47
87	New CRISPR-Cas systems from uncultivated microbes. Nature, 2017, 542, 237-241.	13.7	471
88	Cornerstones of CRISPR-Cas in drug discovery and therapy. Nature Reviews Drug Discovery, 2017, 16, 89-100.	21.5	370
89	Nanoparticle delivery of Cas9 ribonucleoprotein and donor DNA in vivo induces homology-directed DNA repair. Nature Biomedical Engineering, 2017, 1, 889-901.	11.6	566
90	The chemistry of Cas9 and its CRISPR colleagues. Nature Reviews Chemistry, 2017, 1, .	13.8	111

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91	CRISPR System: From Adaptive Immunity to Genome Editing. <i>Molecular Frontiers Journal</i> , 2017, 01, 76-91.	0.9	0
92	A Broad-Spectrum Inhibitor of CRISPR-Cas9. <i>Cell</i> , 2017, 170, 1224-1233.e15.	13.5	211
93	Enhanced proofreading governs CRISPR-Cas9 targeting accuracy. <i>Nature</i> , 2017, 550, 407-410.	13.7	901
94	Guide-bound structures of an RNA-targeting A-cleaving CRISPR-Cas13a enzyme. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 825-833.	3.6	118
95	Disabling Cas9 by an anti-CRISPR DNA mimic. <i>Science Advances</i> , 2017, 3, e1701620.	4.7	289
96	A conformational checkpoint between DNA binding and cleavage by CRISPR-Cas9. <i>Science Advances</i> , 2017, 3, eaao0027.	4.7	211
97	Structures of the CRISPR genome integration complex. <i>Science</i> , 2017, 357, 1113-1118.	6.0	120
98	CRISPR-Cpf1 mediates efficient homology-directed repair and temperature-controlled genome editing. <i>Nature Communications</i> , 2017, 8, 2024.	5.8	232
99	Widespread Translational Remodeling during Human Neuronal Differentiation. <i>Cell Reports</i> , 2017, 21, 2005-2016.	2.9	128
100	A thermostable Cas9 with increased lifetime in human plasma. <i>Nature Communications</i> , 2017, 8, 1424.	5.8	142
101	Selective stalling of human translation through small-molecule engagement of the ribosome nascent chain. <i>PLoS Biology</i> , 2017, 15, e2001882.	2.6	104
102	RNA and DNA Targeting by a Reconstituted <i>Thermus thermophilus</i> Type III-A CRISPR-Cas System. <i>PLoS ONE</i> , 2017, 12, e0170552.	1.1	81
103	DNA recognition by an RNA-guided bacterial Argonaute. <i>PLoS ONE</i> , 2017, 12, e0177097.	1.1	49
104	Nucleosome breathing and remodeling constrain CRISPR-Cas9 function. <i>ELife</i> , 2016, 5, .	2.8	193
105	Insights into HIV-1 proviral transcription from integrative structure and dynamics of the Tat:AFF4:P-TEFb:TAR complex. <i>ELife</i> , 2016, 5, .	2.8	43
106	CRISPR Immunological Memory Requires a Host Factor for Specificity. <i>Molecular Cell</i> , 2016, 62, 824-833.	4.5	148
107	A bacterial Argonaute with noncanonical guide RNA specificity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4057-4062.	3.3	122
108	Profiling of engineering hotspots identifies an allosteric CRISPR-Cas9 switch. <i>Nature Biotechnology</i> , 2016, 34, 646-651.	9.4	180

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109	Protecting genome integrity during CRISPR immune adaptation. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 876-883.	3.6	70
110	Applications of CRISPR technologies in research and beyond. <i>Nature Biotechnology</i> , 2016, 34, 933-941.	9.4	735
111	Two distinct RNase activities of CRISPR-C2c2 enable guide-RNA processing and RNA detection. <i>Nature</i> , 2016, 538, 270-273.	13.7	854
112	DNA Targeting by a Minimal CRISPR RNA-Guided Cascade. <i>Molecular Cell</i> , 2016, 63, 840-851.	4.5	75
113	Foreign DNA capture during CRISPR-Cas adaptive immunity. <i>Nature</i> , 2016, 534, S13-S14.	13.7	1
114	ATAC-seq reveals the accessible genome by transposase-mediated imaging and sequencing. <i>Nature Methods</i> , 2016, 13, 1013-1020.	9.0	199
115	A Cas9 Ribonucleoprotein Platform for Functional Genetic Studies of HIV-Host Interactions in Primary Human T Cells. <i>Cell Reports</i> , 2016, 17, 1438-1452.	2.9	167
116	Real-time observation of DNA recognition and rejection by the RNA-guided endonuclease Cas9. <i>Nature Communications</i> , 2016, 7, 12778.	5.8	221
117	Biology and Applications of CRISPR Systems: Harnessing Nature's Toolbox for Genome Engineering. <i>Cell</i> , 2016, 164, 29-44.	13.5	889
118	Structures of a CRISPR-Cas9 R-loop complex primed for DNA cleavage. <i>Science</i> , 2016, 351, 867-871.	6.0	512
119	Programmable RNA Tracking in Live Cells with CRISPR/Cas9. <i>Cell</i> , 2016, 165, 488-496.	13.5	455
120	Analog sensitive chemical inhibition of the DEAD-box protein DDX3. <i>Protein Science</i> , 2016, 25, 638-649.	3.1	14
121	Chemical and Biophysical Modulation of Cas9 for Tunable Genome Engineering. <i>ACS Chemical Biology</i> , 2016, 11, 681-688.	1.6	83
122	Autoinhibitory Interdomain Interactions and Subfamily-specific Extensions Redefine the Catalytic Core of the Human DEAD-box Protein DDX3. <i>Journal of Biological Chemistry</i> , 2016, 291, 2412-2421.	1.6	71
123	Medulloblastoma-associated DDX3 variant selectively alters the translational response to stress. <i>Oncotarget</i> , 2016, 7, 28169-28182.	0.8	62
124	Tunable protein synthesis by transcript isoforms in human cells. <i>ELife</i> , 2016, 5, .	2.8	238
125	Reconstitution of selective HIV-1 RNA packaging in vitro by membrane-bound Gag assemblies. <i>ELife</i> , 2016, 5, .	2.8	36
126	Genome editing: the end of the beginning. <i>Genome Biology</i> , 2015, 16, 292.	3.8	15

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127	Genome-editing revolution: My whirlwind year with CRISPR. <i>Nature</i> , 2015, 528, 469-471.	13.7	36
128	Expanding the Biologist's Toolkit with CRISPR-Cas9. <i>Molecular Cell</i> , 2015, 58, 568-574.	4.5	351
129	Structures of the CRISPR-Cmr complex reveal mode of RNA target positioning. <i>Science</i> , 2015, 348, 581-585.	6.0	126
130	Get in LINE: Competition for Newly Minted Retrotransposon Proteins at the Ribosome. <i>Molecular Cell</i> , 2015, 60, 712-714.	4.5	3
131	Dynamics of CRISPR-Cas9 genome interrogation in living cells. <i>Science</i> , 2015, 350, 823-826.	6.0	301
132	Dicer-TRBP Complex Formation Ensures Accurate Mammalian MicroRNA Biogenesis. <i>Molecular Cell</i> , 2015, 57, 397-407.	4.5	209
133	Integrase-mediated spacer acquisition during CRISPR-Cas adaptive immunity. <i>Nature</i> , 2015, 519, 193-198.	13.7	295
134	Rational design of a split-Cas9 enzyme complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2984-2989.	3.3	255
135	Genomic Engineering and the Future of Medicine. <i>JAMA - Journal of the American Medical Association</i> , 2015, 313, 791.	3.8	25
136	The structural biology of CRISPR-Cas systems. <i>Current Opinion in Structural Biology</i> , 2015, 30, 100-111.	2.6	137
137	Generation of knock-in primary human T cells using Cas9 ribonucleoproteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10437-10442.	3.3	600
138	A Cas9-guide RNA complex preorganized for target DNA recognition. <i>Science</i> , 2015, 348, 1477-1481.	6.0	463
139	CRISPR germline engineering—the community speaks. <i>Nature Biotechnology</i> , 2015, 33, 478-486.	9.4	110
140	A prudent path forward for genomic engineering and germline gene modification. <i>Science</i> , 2015, 348, 36-38.	6.0	541
141	Conformational control of DNA target cleavage by CRISPR-Cas9. <i>Nature</i> , 2015, 527, 110-113.	13.7	514
142	Single-Stranded DNA Cleavage by Divergent CRISPR-Cas9 Enzymes. <i>Molecular Cell</i> , 2015, 60, 398-407.	4.5	94
143	Foreign DNA capture during CRISPR-Cas adaptive immunity. <i>Nature</i> , 2015, 527, 535-538.	13.7	169
144	Surveillance and Processing of Foreign DNA by the Escherichia coli CRISPR-Cas System. <i>Cell</i> , 2015, 163, 854-865.	13.5	177

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145	Ancient Origin of cGAS-STING Reveals Mechanism of Universal 2'3' cGAMP Signaling. <i>Molecular Cell</i> , 2015, 59, 891-903.	4.5	224
146	Cutting it close: CRISPR-associated endoribonuclease structure and function. <i>Trends in Biochemical Sciences</i> , 2015, 40, 58-66.	3.7	116
147	Enhanced homology-directed human genome engineering by controlled timing of CRISPR/Cas9 delivery. <i>ELife</i> , 2014, 3, e04766.	2.8	968
148	RNA-guided assembly of Rev-RRE nuclear export complexes. <i>ELife</i> , 2014, 3, e03656.	2.8	81
149	Evolution of CRISPR RNA recognition and processing by Cas6 endonucleases. <i>Nucleic Acids Research</i> , 2014, 42, 1341-1353.	6.5	68
150	The new frontier of genome engineering with CRISPR-Cas9. <i>Science</i> , 2014, 346, 1258096.	6.0	4,828
151	Preface. <i>Methods in Enzymology</i> , 2014, 546, xix-xx.	0.4	29
152	New tools provide a second look at HDV ribozyme structure, dynamics and cleavage. <i>Nucleic Acids Research</i> , 2014, 42, 12833-12846.	6.5	38
153	Structures of Cas9 Endonucleases Reveal RNA-Mediated Conformational Activation. <i>Science</i> , 2014, 343, 1247997.	6.0	938
154	CasA mediates Cas3-catalyzed target degradation during CRISPR RNA-guided interference. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6618-6623.	3.3	206
155	Insights into RNA structure and function from genome-wide studies. <i>Nature Reviews Genetics</i> , 2014, 15, 469-479.	7.7	384
156	DNA interrogation by the CRISPR RNA-guided endonuclease Cas9. <i>Nature</i> , 2014, 507, 62-67.	13.7	1,573
157	RNA Targeting by the Type III-A CRISPR-Cas Csm Complex of <i>Thermus thermophilus</i> . <i>Molecular Cell</i> , 2014, 56, 518-530.	4.5	267
158	Evolutionarily Conserved Roles of the Dicer Helicase Domain in Regulating RNA Interference Processing. <i>Journal of Biological Chemistry</i> , 2014, 289, 28352-28362.	1.6	17
159	Structure-Guided Reprogramming of Human cGAS Dinucleotide Linkage Specificity. <i>Cell</i> , 2014, 158, 1011-1021.	13.5	111
160	Programmable RNA recognition and cleavage by CRISPR/Cas9. <i>Nature</i> , 2014, 516, 263-266.	13.7	533
161	Cas1-Cas2 complex formation mediates spacer acquisition during CRISPR-Cas adaptive immunity. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 528-534.	3.6	389
162	High-throughput profiling of off-target DNA cleavage reveals RNA-programmed Cas9 nuclease specificity. <i>Nature Biotechnology</i> , 2013, 31, 839-843.	9.4	1,303

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163	CRISPR-Mediated Modular RNA-Guided Regulation of Transcription in Eukaryotes. <i>Cell</i> , 2013, 154, 442-451.	13.5	3,012
164	Structure and Activity of the RNA-Targeting Type III-B CRISPR-Cas Complex of <i>Thermus thermophilus</i> . <i>Molecular Cell</i> , 2013, 52, 135-145.	4.5	212
165	Rewriting a genome. <i>Nature</i> , 2013, 495, 50-51.	13.7	168
166	Repurposing CRISPR as an RNA-Guided Platform for Sequence-Specific Control of Gene Expression. <i>Cell</i> , 2013, 152, 1173-1183.	13.5	4,090
167	RNA-programmed genome editing in human cells. <i>ELife</i> , 2013, 2, e00471.	2.8	1,830
168	Substrate-specific structural rearrangements of human Dicer. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 662-670.	3.6	89
169	Molecular Mechanisms of RNA Interference. <i>Annual Review of Biophysics</i> , 2013, 42, 217-239.	4.5	868
170	Differential roles of human Dicer-binding proteins TRBP and PACT in small RNA processing. <i>Nucleic Acids Research</i> , 2013, 41, 6568-6576.	6.5	172
171	Multiple sensors ensure guide strand selection in human RNAi pathways. <i>Rna</i> , 2013, 19, 639-648.	1.6	107
172	ATP-independent diffusion of double-stranded RNA binding proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 151-156.	3.3	62
173	Hepatitis C virus 3'UTR regulates viral translation through direct interactions with the host translation machinery. <i>Nucleic Acids Research</i> , 2013, 41, 7861-7874.	6.5	59
174	RNA-protein analysis using a conditional CRISPR nuclease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5416-5421.	3.3	71
175	Defending the Genome: Regulatory RNA in Humans and Bacteria. <i>FASEB Journal</i> , 2013, 27, 450.1.	0.2	0
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