

Jennifer A Doudna

List of Publications by Year in descending order

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235
papers

76,560
citations

1614

105
h-index

1116

231
g-index

291
all docs

291
docs citations

291
times ranked

50863
citing authors

#	ARTICLE	IF	CITATIONS
1	A Programmable Dual-RNA-Guided DNA Endonuclease in Adaptive Bacterial Immunity. <i>Science</i> , 2012, 337, 816-821.	12.6	12,811
2	The new frontier of genome engineering with CRISPR-Cas9. <i>Science</i> , 2014, 346, 1258096.	12.6	4,828
3	Repurposing CRISPR as an RNA-Guided Platform for Sequence-Specific Control of Gene Expression. <i>Cell</i> , 2013, 152, 1173-1183.	28.9	4,090
4	CRISPR-Mediated Modular RNA-Guided Regulation of Transcription in Eukaryotes. <i>Cell</i> , 2013, 154, 442-451.	28.9	3,012
5	CRISPR-Cas12a target binding unleashes indiscriminate single-stranded DNase activity. <i>Science</i> , 2018, 360, 436-439.	12.6	2,355
6	RNA-programmed genome editing in human cells. <i>ELife</i> , 2013, 2, e00471.	6.0	1,830
7	RNA-guided genetic silencing systems in bacteria and archaea. <i>Nature</i> , 2012, 482, 331-338.	27.8	1,584
8	DNA interrogation by the CRISPR RNA-guided endonuclease Cas9. <i>Nature</i> , 2014, 507, 62-67.	27.8	1,573
9	High-throughput profiling of off-target DNA cleavage reveals RNA-programmed Cas9 nuclease specificity. <i>Nature Biotechnology</i> , 2013, 31, 839-843.	17.5	1,303
10	CRISPR-Cas9 Structures and Mechanisms. <i>Annual Review of Biophysics</i> , 2017, 46, 505-529.	10.0	1,289
11	CRISPR-Cas guides the future of genetic engineering. <i>Science</i> , 2018, 361, 866-869.	12.6	1,024
12	Enhanced homology-directed human genome engineering by controlled timing of CRISPR/Cas9 delivery. <i>ELife</i> , 2014, 3, e04766.	6.0	968
13	Structures of Cas9 Endonucleases Reveal RNA-Mediated Conformational Activation. <i>Science</i> , 2014, 343, 1247997.	12.6	938
14	Enhanced proofreading governs CRISPR-Cas9 targeting accuracy. <i>Nature</i> , 2017, 550, 407-410.	27.8	901
15	Biology and Applications of CRISPR Systems: Harnessing Nature's Toolboxes for Genome Engineering. <i>Cell</i> , 2016, 164, 29-44.	28.9	889
16	Molecular Mechanisms of RNA Interference. <i>Annual Review of Biophysics</i> , 2013, 42, 217-239.	10.0	868
17	Structural Basis for Double-Stranded RNA Processing by Dicer. <i>Science</i> , 2006, 311, 195-198.	12.6	860
18	Two distinct RNase activities of CRISPR-C2c2 enable guide-RNA processing and RNA detection. <i>Nature</i> , 2016, 538, 270-273.	27.8	854

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19	Programmed DNA destruction by miniature CRISPR-Cas14 enzymes. <i>Science</i> , 2018, 362, 839-842.	12.6	757
20	Crystal structure of a hepatitis delta virus ribozyme. <i>Nature</i> , 1998, 395, 567-574.	27.8	747
21	Applications of CRISPR technologies in research and beyond. <i>Nature Biotechnology</i> , 2016, 34, 933-941.	17.5	735
22	The chemical repertoire of natural ribozymes. <i>Nature</i> , 2002, 418, 222-228.	27.8	656
23	A three-dimensional view of the molecular machinery of RNA interference. <i>Nature</i> , 2009, 457, 405-412.	27.8	651
24	Amplification-free detection of SARS-CoV-2 with CRISPR-Cas13a and mobile phone microscopy. <i>Cell</i> , 2021, 184, 323-333.e9.	28.9	613
25	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.	7.1	600
26	Sequence- and Structure-Specific RNA Processing by a CRISPR Endonuclease. <i>Science</i> , 2010, 329, 1355-1358.	12.6	599
27	The promise and challenge of therapeutic genome editing. <i>Nature</i> , 2020, 578, 229-236.	27.8	599
28	Nanoparticle delivery of Cas9 ribonucleoprotein and donor DNA in vivo induces homology-directed DNA repair. <i>Nature Biomedical Engineering</i> , 2017, 1, 889-901.	22.5	566
29	A prudent path forward for genomic engineering and germline gene modification. <i>Science</i> , 2015, 348, 36-38.	12.6	541
30	Programmable RNA recognition and cleavage by CRISPR/Cas9. <i>Nature</i> , 2014, 516, 263-266.	27.8	533
31	Conformational control of DNA target cleavage by CRISPR-Cas9. <i>Nature</i> , 2015, 527, 110-113.	27.8	514
32	Structures of a CRISPR-Cas9 R-loop complex primed for DNA cleavage. <i>Science</i> , 2016, 351, 867-871.	12.6	512
33	Phage-assisted evolution of an adenine base editor with improved Cas domain compatibility and activity. <i>Nature Biotechnology</i> , 2020, 38, 883-891.	17.5	502
34	Structural basis for CRISPR RNA-guided DNA recognition by Cascade. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 529-536.	8.2	498
35	New CRISPR-Cas systems from uncultivated microbes. <i>Nature</i> , 2017, 542, 237-241.	27.8	471
36	A Cas9-guide RNA complex preorganized for target DNA recognition. <i>Science</i> , 2015, 348, 1477-1481.	12.6	463

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37	Programmable RNA Tracking in Live Cells with CRISPR/Cas9. <i>Cell</i> , 2016, 165, 488-496.	28.9	455
38	RNA-guided complex from a bacterial immune system enhances target recognition through seed sequence interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10092-10097.	7.1	413
39	Tertiary Motifs in RNA Structure and Folding. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 2326-2343.	13.8	393
40	Cas1-Cas2 complex formation mediates spacer acquisition during CRISPR-Cas adaptive immunity. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 528-534.	8.2	389
41	<i>In vitro</i> reconstitution of the human RISC-loading complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 512-517.	7.1	385
42	Insights into RNA structure and function from genome-wide studies. <i>Nature Reviews Genetics</i> , 2014, 15, 469-479.	16.3	384
43	Cornerstones of CRISPR-Cas in drug discovery and therapy. <i>Nature Reviews Drug Discovery</i> , 2017, 16, 89-100.	46.4	370
44	Crystal Structure of the Ribonucleoprotein Core of the Signal Recognition Particle. <i>Science</i> , 2000, 287, 1232-1239.	12.6	369
45	Structures of the RNA-guided surveillance complex from a bacterial immune system. <i>Nature</i> , 2011, 477, 486-489.	27.8	355
46	CRISPR-Cas1 from huge phages is a hypercompact genome editor. <i>Science</i> , 2020, 369, 333-337.	12.6	352
47	Expanding the Biologist's Toolkit with CRISPR-Cas9. <i>Molecular Cell</i> , 2015, 58, 568-574.	9.7	351
48	Multiplexed RNA structure characterization with selective 2'-hydroxyl acylation analyzed by primer extension sequencing (SHAPE-Seq). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11063-11068.	7.1	346
49	CasX enzymes comprise a distinct family of RNA-guided genome editors. <i>Nature</i> , 2019, 566, 218-223.	27.8	346
50	Clades of huge phages from across Earth's ecosystems. <i>Nature</i> , 2020, 578, 425-431.	27.8	331
51	Mechanism of ribosome recruitment by hepatitis C IRES RNA. <i>Rna</i> , 2001, 7, 194-206.	3.5	329
52	Dynamics of CRISPR-Cas9 genome interrogation in living cells. <i>Science</i> , 2015, 350, 823-826.	12.6	301
53	Integrase-mediated spacer acquisition during CRISPR-Cas adaptive immunity. <i>Nature</i> , 2015, 519, 193-198.	27.8	295
54	Disabling Cas9 by an anti-CRISPR DNA mimic. <i>Science Advances</i> , 2017, 3, e1701620.	10.3	289

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55	A magnesium ion core at the heart of a ribozyme domain. <i>Nature Structural Biology</i> , 1997, 4, 553-558.	9.7	281
56	Efficient genome editing in the mouse brain by local delivery of engineered Cas9 ribonucleoprotein complexes. <i>Nature Biotechnology</i> , 2017, 35, 431-434.	17.5	278
57	RNA Targeting by the Type III-A CRISPR-Cas Csm Complex of <i>Thermus thermophilus</i> . <i>Molecular Cell</i> , 2014, 56, 518-530.	9.7	267
58	A conformational switch controls hepatitis delta virus ribozyme catalysis. <i>Nature</i> , 2004, 429, 201-205.	27.8	266
59	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.	7.1	255
60	Metal-binding sites in the major groove of a large ribozyme domain. <i>Structure</i> , 1996, 4, 1221-1229.	3.3	246
61	Tunable protein synthesis by transcript isoforms in human cells. <i>ELife</i> , 2016, 5, .	6.0	238
62	CRISPR-Cpf1 mediates efficient homology-directed repair and temperature-controlled genome editing. <i>Nature Communications</i> , 2017, 8, 2024.	12.8	232
63	Mechanism of Foreign DNA Selection in a Bacterial Adaptive Immune System. <i>Molecular Cell</i> , 2012, 46, 606-615.	9.7	229
64	RNA Targeting by Functionally Orthogonal Type VI-A CRISPR-Cas Enzymes. <i>Molecular Cell</i> , 2017, 66, 373-383.e3.	9.7	229
65	A universal mode of helix packing in RNA. <i>Nature Structural Biology</i> , 2001, 8, 339-343.	9.7	228
66	Structural Basis for DNase Activity of a Conserved Protein Implicated in CRISPR-Mediated Genome Defense. <i>Structure</i> , 2009, 17, 904-912.	3.3	228
67	Ancient Origin of cGAS-STING Reveals Mechanism of Universal cGAMP Signaling. <i>Molecular Cell</i> , 2015, 59, 891-903.	9.7	224
68	Real-time observation of DNA recognition and rejection by the RNA-guided endonuclease Cas9. <i>Nature Communications</i> , 2016, 7, 12778.	12.8	221
69	Ribonuclease revisited: structural insights into ribonuclease III family enzymes. <i>Current Opinion in Structural Biology</i> , 2007, 17, 138-145.	5.7	217
70	Rapid assessment of SARS-CoV-2-evolved variants using virus-like particles. <i>Science</i> , 2021, 374, 1626-1632.	12.6	216
71	Structural insights into RNA processing by the human RISC-loading complex. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 1148-1153.	8.2	215
72	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.	9.7	212

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73	A Broad-Spectrum Inhibitor of CRISPR-Cas9. <i>Cell</i> , 2017, 170, 1224-1233.e15.	28.9	211
74	A conformational checkpoint between DNA binding and cleavage by CRISPR-Cas9. <i>Science Advances</i> , 2017, 3, eaao0027.	10.3	211
75	Dicer-TRBP Complex Formation Ensures Accurate Mammalian MicroRNA Biogenesis. <i>Molecular Cell</i> , 2015, 57, 397-407.	9.7	209
76	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.	7.1	206
77	ATAC-seq reveals the accessible genome by transposase-mediated imaging and sequencing. <i>Nature Methods</i> , 2016, 13, 1013-1020.	19.0	199
78	Autoinhibition of Human Dicer by Its Internal Helicase Domain. <i>Journal of Molecular Biology</i> , 2008, 380, 237-243.	4.2	195
79	Nucleosome breathing and remodeling constrain CRISPR-Cas9 function. <i>ELife</i> , 2016, 5, .	6.0	193
80	RNA processing enables predictable programming of gene expression. <i>Nature Biotechnology</i> , 2012, 30, 1002-1006.	17.5	184
81	Profiling of engineering hotspots identifies an allosteric CRISPR-Cas9 switch. <i>Nature Biotechnology</i> , 2016, 34, 646-651.	17.5	180
82	Surveillance and Processing of Foreign DNA by the Escherichia coli CRISPR-Cas System. <i>Cell</i> , 2015, 163, 854-865.	28.9	177
83	Systematic discovery of natural CRISPR-Cas12a inhibitors. <i>Science</i> , 2018, 362, 236-239.	12.6	174
84	Use of Cis- and Trans-Ribozymes to Remove 5' and 3' Heterogeneities From Milligrams of In Vitro Transcribed RNA. <i>Nucleic Acids Research</i> , 1996, 24, 977-978.	14.5	173
85	Differential roles of human Dicer-binding proteins TRBP and PACT in small RNA processing. <i>Nucleic Acids Research</i> , 2013, 41, 6568-6576.	14.5	172
86	Foreign DNA capture during CRISPR-Cas adaptive immunity. <i>Nature</i> , 2015, 527, 535-538.	27.8	169
87	Ribozyme Structures and Mechanisms. <i>Annual Review of Biochemistry</i> , 2000, 69, 597-615.	11.1	168
88	Rewriting a genome. <i>Nature</i> , 2013, 495, 50-51.	27.8	168
89	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.	6.4	167
90	RNA-based recognition and targeting: sowing the seeds of specificity. <i>Nature Reviews Molecular Cell Biology</i> , 2017, 18, 215-228.	37.0	167

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91	An RNA-induced conformational change required for CRISPR RNA cleavage by the endoribonuclease Cse3. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 680-687.	8.2	166
92	High-throughput biochemical profiling reveals sequence determinants of dCas9 off-target binding and unbinding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5461-5466.	7.1	165
93	RNA-dependent RNA targeting by CRISPR-Cas9. <i>ELife</i> , 2018, 7, .	6.0	152
94	CRISPR Immunological Memory Requires a Host Factor for Specificity. <i>Molecular Cell</i> , 2016, 62, 824-833.	9.7	148
95	Ribozyme catalysis: not different, just worse. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 395-402.	8.2	147
96	Limited cross-variant immunity from SARS-CoV-2 Omicron without vaccination. <i>Nature</i> , 2022, 607, 351-355.	27.8	143
97	A thermostable Cas9 with increased lifetime in human plasma. <i>Nature Communications</i> , 2017, 8, 1424.	12.8	142
98	The structural biology of CRISPR-Cas systems. <i>Current Opinion in Structural Biology</i> , 2015, 30, 100-111.	5.7	137
99	Accelerated RNA detection using tandem CRISPR nucleases. <i>Nature Chemical Biology</i> , 2021, 17, 982-988.	8.0	135
100	Mechanism of substrate selection by a highly specific CRISPR endoribonuclease. <i>Rna</i> , 2012, 18, 661-672.	3.5	133
101	Controlling CRISPR-Cas9 with ligand-activated and ligand-deactivated sgRNAs. <i>Nature Communications</i> , 2019, 10, 2127.	12.8	133
102	Widespread Translational Remodeling during Human Neuronal Differentiation. <i>Cell Reports</i> , 2017, 21, 2005-2016.	6.4	128
103	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.	13.7	127
104	Species- and site-specific genome editing in complex bacterial communities. <i>Nature Microbiology</i> , 2022, 7, 34-47.	13.3	127
105	Substrate-Specific Kinetics of Dicer-Catalyzed RNA Processing. <i>Journal of Molecular Biology</i> , 2010, 404, 392-402.	4.2	126
106	Structures of the CRISPR-Cmr complex reveal mode of RNA target positioning. <i>Science</i> , 2015, 348, 581-585.	12.6	126
107	Neutralizing immunity in vaccine breakthrough infections from the SARS-CoV-2 Omicron and Delta variants. <i>Cell</i> , 2022, 185, 1539-1548.e5.	28.9	126
108	Structure and Function of the Eukaryotic Ribosome. <i>Cell</i> , 2002, 109, 153-156.	28.9	123

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109	Structural Insights Into the Signal Recognition Particle. <i>Annual Review of Biochemistry</i> , 2004, 73, 539-557.	11.1	123
110	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.	7.1	122
111	Structures of the CRISPR genome integration complex. <i>Science</i> , 2017, 357, 1113-1118.	12.6	120
112	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.	7.1	120
113	TRBP alters human precursor microRNA processing in vitro. <i>Rna</i> , 2012, 18, 2012-2019.	3.5	118
114	Guide-bound structures of an RNA-targeting A-cleaving CRISPR-Cas13a enzyme. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 825-833.	8.2	118
115	Cutting it close: CRISPR-associated endoribonuclease structure and function. <i>Trends in Biochemical Sciences</i> , 2015, 40, 58-66.	7.5	116
116	DNA capture by a CRISPR-Cas9-guided adenine base editor. <i>Science</i> , 2020, 369, 566-571.	12.6	114
117	Structure-Guided Reprogramming of Human cGAS Dinucleotide Linkage Specificity. <i>Cell</i> , 2014, 158, 1011-1021.	28.9	111
118	The chemistry of Cas9 and its CRISPR colleagues. <i>Nature Reviews Chemistry</i> , 2017, 1, .	30.2	111
119	CRISPR germline engineering—the community speaks. <i>Nature Biotechnology</i> , 2015, 33, 478-486.	17.5	110
120	Modeling and automation of sequencing-based characterization of RNA structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11069-11074.	7.1	109
121	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.	13.3	109
122	The Psychiatric Cell Map Initiative: A Convergent Systems Biological Approach to Illuminating Key Molecular Pathways in Neuropsychiatric Disorders. <i>Cell</i> , 2018, 174, 505-520.	28.9	108
123	RNA Binding and HEPN-Nuclease Activation Are Decoupled in CRISPR-Cas13a. <i>Cell Reports</i> , 2018, 24, 1025-1036.	6.4	108
124	Controlling and enhancing CRISPR systems. <i>Nature Chemical Biology</i> , 2021, 17, 10-19.	8.0	108
125	Multiple sensors ensure guide strand selection in human RNAi pathways. <i>Rna</i> , 2013, 19, 639-648.	3.5	107
126	Selective stalling of human translation through small-molecule engagement of the ribosome nascent chain. <i>PLoS Biology</i> , 2017, 15, e2001882.	5.6	104

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127	Disruption of the Î²1L Isoform of GABP Reverses Glioblastoma Replicative Immortality in a TERT Promoter Mutation-Dependent Manner. <i>Cancer Cell</i> , 2018, 34, 513-528.e8.	16.8	103
128	Crystal Structure of the HCV IRES Central Domain Reveals Strategy for Start-Codon Positioning. <i>Structure</i> , 2011, 19, 1456-1466.	3.3	102
129	Direct pKa Measurement of the Active-Site Cytosine in a Genomic Hepatitis Delta Virus Ribozyme. <i>Journal of the American Chemical Society</i> , 2001, 123, 8447-8452.	13.7	100
130	Structural Insights into Group II Intron Catalysis and Branch-Site Selection. <i>Science</i> , 2002, 295, 2084-2088.	12.6	100
131	Deciphering Off-Target Effects in CRISPR-Cas9 through Accelerated Molecular Dynamics. <i>ACS Central Science</i> , 2019, 5, 651-662.	11.3	99
132	Broad-spectrum enzymatic inhibition of CRISPR-Cas12a. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 315-321.	8.2	99
133	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.	12.0	98
134	RNA FOLDS: Insights from Recent Crystal Structures. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 1999, 28, 57-73.	18.3	97
135	Single-Stranded DNA Cleavage by Divergent CRISPR-Cas9 Enzymes. <i>Molecular Cell</i> , 2015, 60, 398-407.	9.7	94
136	A Unified Resource for Tracking Anti-CRISPR Names. <i>CRISPR Journal</i> , 2018, 1, 304-305.	2.9	94
137	Targeted delivery of CRISPR-Cas9 and transgenes enables complex immune cell engineering. <i>Cell Reports</i> , 2021, 35, 109207.	6.4	91
138	Csy4 relies on an unusual catalytic dyad to position and cleave CRISPR RNA. <i>EMBO Journal</i> , 2012, 31, 2824-2832.	7.8	90
139	Substrate-specific structural rearrangements of human Dicer. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 662-670.	8.2	89
140	Applications of CRISPR-Cas Enzymes in Cancer Therapeutics and Detection. <i>Trends in Cancer</i> , 2018, 4, 499-512.	7.4	89
141	A nested double pseudoknot is required for self-cleavage activity of both the genomic and antigenomic hepatitis delta virus ribozymes. <i>Rna</i> , 1999, 5, 720-727.	3.5	85
142	The NIH Somatic Cell Genome Editing program. <i>Nature</i> , 2021, 592, 195-204.	27.8	84
143	Chemical and Biophysical Modulation of Cas9 for Tunable Genome Engineering. <i>ACS Chemical Biology</i> , 2016, 11, 681-688.	3.4	83
144	RNA-guided assembly of Rev-RRE nuclear export complexes. <i>ELife</i> , 2014, 3, e03656.	6.0	81

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145	RNA and DNA Targeting by a Reconstituted <i>Thermus thermophilus</i> Type III-A CRISPR-Cas System. <i>PLoS ONE</i> , 2017, 12, e0170552.	2.5	81
146	Massively parallel kinetic profiling of natural and engineered CRISPR nucleases. <i>Nature Biotechnology</i> , 2021, 39, 84-93.	17.5	80
147	CRISPR-Cas12a exploits R-loop asymmetry to form double-strand breaks. <i>ELife</i> , 2020, 9, .	6.0	80
148	Key role of the REC lobe during CRISPR-Cas9 activation by \sim sensing TM , \sim regulating TM , and \sim locking TM the catalytic HNH domain. <i>Quarterly Reviews of Biophysics</i> , 2018, 51, .	5.7	79
149	Structural biology of CRISPR-Cas immunity and genome editing enzymes. <i>Nature Reviews Microbiology</i> , 2022, 20, 641-656.	28.6	78
150	DNA Targeting by a Minimal CRISPR RNA-Guided Cascade. <i>Molecular Cell</i> , 2016, 63, 840-851.	9.7	75
151	Native Tandem and Ion Mobility Mass Spectrometry Highlight Structural and Modular Similarities in Clustered-Regularly-Interspaced Shot-Palindromic-Repeats (CRISPR)-associated Protein Complexes From <i>Escherichia coli</i> and <i>Pseudomonas aeruginosa</i> . <i>Molecular and Cellular Proteomics</i> , 2012, 11, 1430-1441.	3.8	74
152	Structural insights into RNA interference. <i>Current Opinion in Structural Biology</i> , 2010, 20, 90-97.	5.7	73
153	CRISPR-Cas9 Circular Permutants as Programmable Scaffolds for Genome Modification. <i>Cell</i> , 2019, 176, 254-267.e16.	28.9	73
154	Targeted gene knock-in by homology-directed genome editing using Cas9 ribonucleoprotein and AAV donor delivery. <i>Nucleic Acids Research</i> , 2017, 45, e98-e98.	14.5	72
155	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.	7.1	71
156	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.	3.4	71
157	The P4-P6 Domain Directs Higher Order Folding of the <i>Tetrahymena</i> Ribozyme Core. <i>Biochemistry</i> , 1997, 36, 3159-3169.	2.5	70
158	Protecting genome integrity during CRISPR immune adaptation. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 876-883.	8.2	70
159	Machine learning predicts new anti-CRISPR proteins. <i>Nucleic Acids Research</i> , 2020, 48, 4698-4708.	14.5	70
160	The stem-loop binding protein forms a highly stable and specific complex with the 3 rd stem-loop of histone mRNAs. <i>Rna</i> , 2001, 7, 123-132.	3.5	68
161	Evolution of CRISPR RNA recognition and processing by Cas6 endonucleases. <i>Nucleic Acids Research</i> , 2014, 42, 1341-1353.	14.5	68
162	Genomes in Focus: Development and Applications of CRISPR-Cas9 Imaging Technologies. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4329-4337.	13.8	67

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163	Temperature-Responsive Competitive Inhibition of CRISPR-Cas9. <i>Molecular Cell</i> , 2019, 73, 601-610.e5.	9.7	67
164	An Essential GTPase Promotes Assembly of Preribosomal RNA Processing Complexes. <i>Molecular Cell</i> , 2005, 20, 633-643.	9.7	65
165	Assembly of an Exceptionally Stable RNA Tertiary Interface in a Group I Ribozyme. <i>Biochemistry</i> , 1999, 38, 2982-2990.	2.5	63
166	The P5abc Peripheral Element Facilitates Preorganization of the Tetrahymena Group I Ribozyme for Catalysis. <i>Biochemistry</i> , 2000, 39, 2639-2651.	2.5	62
167	Coordinated Activities of Human Dicer Domains in Regulatory RNA Processing. <i>Journal of Molecular Biology</i> , 2012, 422, 466-476.	4.2	62
168	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.	7.1	62
169	Engineering of monosized lipid-coated mesoporous silica nanoparticles for CRISPR delivery. <i>Acta Biomaterialia</i> , 2020, 114, 358-368.	8.3	62
170	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.	7.1	62
171	Medulloblastoma-associated DDX3 variant selectively alters the translational response to stress. <i>Oncotarget</i> , 2016, 7, 28169-28182.	1.8	62
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