Samuel H Sternberg

List of Publications by Year
in descending order

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26 papers	9,607 citations	236925 25 h-index	552781 26 g-index
30 all docs	30 docs citations	30 times ranked	9451 citing authors

#	Article	IF	Citations
1	RNA-guided genetic silencing systems in bacteria and archaea. Nature, 2012, 482, 331-338.	27.8	1,584
2	DNA interrogation by the CRISPR RNA-guided endonuclease Cas9. Nature, 2014, 507, 62-67.	27.8	1,573
3	Structures of Cas9 Endonucleases Reveal RNA-Mediated Conformational Activation. Science, 2014, 343, 1247997.	12.6	938
4	Enhanced proofreading governs CRISPRâ€"Cas9 targeting accuracy. Nature, 2017, 550, 407-410.	27.8	901
5	A prudent path forward for genomic engineering and germline gene modification. Science, 2015, 348, 36-38.	12.6	541
6	Programmable RNA recognition and cleavage by CRISPR/Cas9. Nature, 2014, 516, 263-266.	27.8	533
7	Conformational control of DNA target cleavage by CRISPRâ€"Cas9. Nature, 2015, 527, 110-113.	27.8	514
8	Transposon-encoded CRISPRâ€"Cas systems direct RNA-guided DNA integration. Nature, 2019, 571, 219-225.	27.8	420
9	Expanding the Biologistâ€™s Toolkit with CRISPR-Cas9. Molecular Cell, 2015, 58, 568-574.	9.7	351
10	Rational design of a split-Cas9 enzyme complex. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2984-2989.	7.1	255
11	Real-time observation of DNA recognition and rejection by the RNA-guided endonuclease Cas9. Nature Communications, 2016, 7, 12778.	12.8	221
12	A conformational checkpoint between DNA binding and cleavage by CRISPR-Cas9. Science Advances, 2017, 3, eaao0027.	10.3	211
13	CasA mediates Cas3-catalyzed target degradation during CRISPR RNA-guided interference. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6618-6623.	7.1	206
14	Adaptation in CRISPR-Cas Systems. Molecular Cell, 2016, 61, 797-808.	9.7	192
15	CRISPR RNA-guided integrases for high-efficiency, multiplexed bacterial genome engineering. Nature Biotechnology, 2021, 39, 480-489.	17.5	179
16	Surveillance and Processing of Foreign DNA by the Escherichia coli CRISPR-Cas System. Cell, 2015, 163, 854-865.	28.9	177
17	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.	7.1	165
18	Mechanism of substrate selection by a highly specific CRISPR endoribonuclease. Rna, 2012, 18, 661-672.	3.5	133

#	Article	IF	Citations
19	Substrate-Specific Kinetics of Dicer-Catalyzed RNA Processing. Journal of Molecular Biology, 2010, 404, 392-402.	4.2	126
20	Harnessing type I CRISPRâ€"Cas systems for genome engineering in human cells. Nature Biotechnology, 2019, 37, 1471-1477.	17.5	91
21	Csy4 relies on an unusual catalytic dyad to position and cleave CRISPR RNA. EMBO Journal, 2012, 31, 2824-2832.	7.8	90
22	Structural basis of DNA targeting by a transposon-encoded CRISPRâ€"Cas system. Nature, 2020, 577, 271-274.	27.8	86
23	Harnessing â€œA Billion Years of Experimentationâ€: The Ongoing Exploration and Exploitation of CRISPRâ€"Cas Immune Systems. CRISPR Journal, 2018, 1, 141-158.	2.9	44
24	Evolutionary and mechanistic diversity of Type I-F CRISPR-associated transposons. Molecular Cell, 2022, 82, 616-628.e5.	9.7	36
25	Unbiased profiling of CRISPR RNA-guided transposition products by long-read sequencing. Mobile DNA, 2021, 12, 13.	3.6	35
26	CRISPRâ€"Cas immune systems and genome engineering. , 2020, , 157-177.		0