

Erik J Sontheimer

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	11,798 citations	38 h-index	103 g-index
103 ext. papers	13,538 ext. citations	21.1 avg, IF	6.85 L-index

#	Paper	IF	Citations
84	Origins and Mechanisms of miRNAs and siRNAs. <i>Cell</i> , 2009 , 136, 642-55	56.2	3659
83	CRISPR interference limits horizontal gene transfer in staphylococci by targeting DNA. <i>Science</i> , 2008 , 322, 1843-5	33.3	1181
82	Distinct roles for Drosophila Dicer-1 and Dicer-2 in the siRNA/miRNA silencing pathways. <i>Cell</i> , 2004 , 117, 69-81	56.2	1016
81	CRISPR interference: RNA-directed adaptive immunity in bacteria and archaea. <i>Nature Reviews Genetics</i> , 2010 , 11, 181-90	30.1	711
80	Efficient genome engineering in human pluripotent stem cells using Cas9 from <i>Neisseria meningitidis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 15644-9	11.5	508
79	Self versus non-self discrimination during CRISPR RNA-directed immunity. <i>Nature</i> , 2010 , 463, 568-71	50.4	444
78	A Dicer-2-dependent 80s complex cleaves targeted mRNAs during RNAi in Drosophila. <i>Cell</i> , 2004 , 117, 83-94	56.2	348
77	Assembly and function of RNA silencing complexes. <i>Nature Reviews Molecular Cell Biology</i> , 2005 , 6, 127-38	38.7	330
76	Silencing by small RNAs is linked to endosomal trafficking. <i>Nature Cell Biology</i> , 2009 , 11, 1150-6	23.4	279
75	Naturally Occurring Off-Switches for CRISPR-Cas9. <i>Cell</i> , 2016 , 167, 1829-1838.e9	56.2	260
74	Silence from within: endogenous siRNAs and miRNAs. <i>Cell</i> , 2005 , 122, 9-12	56.2	236
73	Adenovirus-Mediated Somatic Genome Editing of Pten by CRISPR/Cas9 in Mouse Liver in Spite of Cas9-Specific Immune Responses. <i>Human Gene Therapy</i> , 2015 , 26, 432-42	4.8	226
72	Processing-independent CRISPR RNAs limit natural transformation in <i>Neisseria meningitidis</i> . <i>Molecular Cell</i> , 2013 , 50, 488-503	17.6	206
71	Metal ion catalysis during splicing of premessenger RNA. <i>Nature</i> , 1997 , 388, 801-5	50.4	155
70	A Broad-Spectrum Inhibitor of CRISPR-Cas9. <i>Cell</i> , 2017 , 170, 1224-1233.e15	56.2	145
69	Autoantibodies against a serine tRNA-protein complex implicated in cotranslational selenocysteine insertion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992 , 89, 9739-43	11.5	126
68	An inside job for siRNAs. <i>Molecular Cell</i> , 2008 , 31, 309-12	17.6	108

67	CRISPR/Cas9-mediated genome editing induces exon skipping by alternative splicing or exon deletion. <i>Genome Biology</i> , 2017 , 18, 108	18.3	103
66	Metal ion catalysis during the exon-ligation step of nuclear pre-mRNA splicing: extending the parallels between the spliceosome and group II introns. <i>Rna</i> , 2000 , 6, 199-205	5.8	98
65	A role for ubiquitin in the spliceosome assembly pathway. <i>Nature Structural and Molecular Biology</i> , 2008 , 15, 444-51	17.6	93
64	RNAi: RISC gets loaded. <i>Cell</i> , 2005 , 123, 543-5	56.2	87
63	A Compact, High-Accuracy Cas9 with a Dinucleotide PAM for In Vivo Genome Editing. <i>Molecular Cell</i> , 2019 , 73, 714-726.e4	17.6	85
62	Kinetic characterization of the second step of group II intron splicing: role of metal ions and the cleavage site 2FOH in catalysis. <i>Biochemistry</i> , 2000 , 39, 12939-52	3.2	72
61	C-BERST: defining subnuclear proteomic landscapes at genomic elements with dCas9-APEX2. <i>Nature Methods</i> , 2018 , 15, 433-436	21.6	67
60	Site-specific RNA crosslinking with 4-thiouridine. <i>Molecular Biology Reports</i> , 1994 , 20, 35-44	2.8	64
59	Ubiquitin binding by a variant Jab1/MPN domain in the essential pre-mRNA splicing factor Prp8p. <i>Rna</i> , 2006 , 12, 292-302	5.8	63
58	NmeCas9 is an intrinsically high-fidelity genome-editing platform. <i>Genome Biology</i> , 2018 , 19, 214	18.3	60
57	Molecular requirements for RNA-induced silencing complex assembly in the Drosophila RNA interference pathway. <i>Journal of Biological Chemistry</i> , 2005 , 280, 39278-83	5.4	58
56	All-in-one adeno-associated virus delivery and genome editing by Neisseria meningitidis Cas9 in vivo. <i>Genome Biology</i> , 2018 , 19, 137	18.3	58
55	Type II-C CRISPR-Cas9 Biology, Mechanism, and Application. <i>ACS Chemical Biology</i> , 2018 , 13, 357-365	4.9	57
54	The Bacterial Origins of the CRISPR Genome-Editing Revolution. <i>Human Gene Therapy</i> , 2015 , 26, 413-24	4.8	56
53	Short interfering RNA strand selection is independent of dsRNA processing polarity during RNAi in Drosophila. <i>Current Biology</i> , 2006 , 16, 530-5	6.3	53
52	An engineered ScCas9 with broad PAM range and high specificity and activity. <i>Nature Biotechnology</i> , 2020 , 38, 1154-1158	44.5	51
51	Potent Cas9 Inhibition in Bacterial and Human Cells by AcrIIC4 and AcrIIC5 Anti-CRISPR Proteins. <i>MBio</i> , 2018 , 9,	7.8	51
50	Molecular biology. Argonaute journeys into the heart of RISC. <i>Science</i> , 2004 , 305, 1409-10	33.3	46

49	DNase H Activity of <i>Neisseria meningitidis</i> Cas9. <i>Molecular Cell</i> , 2015 , 60, 242-55	17.6	45
48	Improved prime editors enable pathogenic allele correction and cancer modelling in adult mice. <i>Nature Communications</i> , 2021 , 12, 2121	17.4	45
47	Heavily and fully modified RNAs guide efficient SpyCas9-mediated genome editing. <i>Nature Communications</i> , 2018 , 9, 2641	17.4	44
46	A Cas9 with PAM recognition for adenine dinucleotides. <i>Nature Communications</i> , 2020 , 11, 2474	17.4	38
45	Anti-CRISPRs: Protein Inhibitors of CRISPR-Cas Systems. <i>Annual Review of Biochemistry</i> , 2020 , 89, 309-332	19.1	37
44	Tissue-restricted genome editing in vivo specified by microRNA-repressible anti-CRISPR proteins. <i>Rna</i> , 2019 , 25, 1421-1431	5.8	35
43	Structures of <i>Neisseria meningitidis</i> Cas9 Complexes in Catalytically Poised and Anti-CRISPR-Inhibited States. <i>Molecular Cell</i> , 2019 , 76, 938-952.e5	17.6	35
42	Inhibition of CRISPR-Cas9 ribonucleoprotein complex assembly by anti-CRISPR AcrIIC2. <i>Nature Communications</i> , 2019 , 10, 2806	17.4	30
41	Blanks, a nuclear siRNA/dsRNA-binding complex component, is required for <i>Drosophila</i> spermiogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 3204-9	11.5	24
40	Inhibition of CRISPR-Cas systems by mobile genetic elements. <i>Current Opinion in Microbiology</i> , 2017 , 37, 120-127	7.9	23
39	The NIH Somatic Cell Genome Editing program. <i>Nature</i> , 2021 , 592, 195-204	50.4	21
38	Anti-CRISPR AcrIIA5 Potently Inhibits All Cas9 Homologs Used for Genome Editing. <i>Cell Reports</i> , 2019 , 29, 1739-1746.e5	10.6	20
37	Invasive DNA, chopped and in the CRISPR. <i>Structure</i> , 2009 , 17, 786-8	5.2	20
36	Orthogonal Cas9-Cas9 chimeras provide a versatile platform for genome editing. <i>Nature Communications</i> , 2018 , 9, 4856	17.4	19
35	ATP modulates siRNA interactions with an endogenous human Dicer complex. <i>Rna</i> , 2005 , 11, 1719-24	5.8	18
34	A Hyperthermophilic Phage Decoration Protein Suggests Common Evolutionary Origin with Herpesvirus Triplex Proteins and an Anti-CRISPR Protein. <i>Structure</i> , 2018 , 26, 936-947.e3	5.2	16
33	Meiosis-induced alterations in transcript architecture and noncoding RNA expression in <i>S. cerevisiae</i> . <i>Rna</i> , 2012 , 18, 1142-53	5.8	15
32	Thermodynamic and structural characterization of 2'-nitrogen-modified RNA duplexes. <i>Nucleic Acids Research</i> , 2004 , 32, 3446-55	20.1	14

31	Primary processing of CRISPR RNA by the endonuclease Cas6 in <i>Staphylococcus epidermidis</i> . <i>FEBS Letters</i> , 2015 , 589, 3197-204	3.8	10
30	"siRNAs and miRNAs": a meeting report on RNA silencing. <i>Rna</i> , 2004 , 10, 1165-73	5.8	10
29	5' Modifications Improve Potency and Efficacy of DNA Donors for Precision Genome Editing		8
28	Efficient Homology-directed Repair with Circular ssDNA Donors		7
27	Proteomics identification of <i>Drosophila</i> small interfering RNA-associated factors. <i>Molecular and Cellular Proteomics</i> , 2010 , 9, 1866-72	7.6	6
26	R2D2 leads the silencing trigger to mRNA's death star. <i>Cell</i> , 2003 , 115, 132-3	56.2	6
25	YAP1 Withdrawal in Hepatoblastoma Drives Therapeutic Differentiation of Tumor Cells to Functional Hepatocyte-Like Cells. <i>Hepatology</i> , 2021 , 73, 1011-1027	11.2	6
24	SPO24 is a transcriptionally dynamic, small ORF-encoding locus required for efficient sporulation in <i>Saccharomyces cerevisiae</i> . <i>PLoS ONE</i> , 2014 , 9, e105058	3.7	5
23	Bridging sulfur substitutions in the analysis of pre-mRNA splicing. <i>Methods</i> , 1999 , 18, 29-37	4.6	5
22	Self-inactivating, all-in-one AAV vectors for precision Cas9 genome editing via homology-directed repair in vivo. <i>Nature Communications</i> , 2021 , 12, 6267	17.4	5
21	CRISPR-enhanced human adipocyte browning as cell therapy for metabolic disease. <i>Nature Communications</i> , 2021 , 12, 6931	17.4	4
20	5' Modifications improve potency and efficacy of DNA donors for precision genome editing. <i>ELife</i> , 2021 , 10,	8.9	4
19	NmeCas9 is an intrinsically high-fidelity genome editing platform		4
18	Structural biology. Cascading into focus. <i>Science</i> , 2014 , 345, 1452-3	33.3	3
17	Cas9 gets a classmate. <i>Nature Biotechnology</i> , 2015 , 33, 1240-1241	44.5	3
16	Separation of <i>Drosophila</i> RNA silencing complexes by native gel electrophoresis. <i>Methods in Molecular Biology</i> , 2005 , 309, 11-6	1.4	2
15	Adapting dCas9-APEX2 for subnuclear proteomic profiling. <i>Methods in Enzymology</i> , 2019 , 616, 365-383	1.7	1
14	X-Tracting a New CRISPR-Cas Genome-Editing Platform from Metagenomic Data Sets. <i>CRISPR Journal</i> , 2019 , 2, 148-150	2.5	1

13	Small RNAs of opposite signbut same absolute value. <i>Cell</i> , 2012 , 151, 1157-8	56.2	1
12	Genome-wide detection of CRISPR editing in vivo using GUIDE-tag.. <i>Nature Communications</i> , 2022 , 13, 437	17.4	1
11	Heavily and Fully Modified RNAs Guide Efficient SpyCas9-Mediated Genome Editing		1
10	One Anti-CRISPR to Rule Them All: Potent Inhibition of Cas9 Homologs Used for Genome Editing. <i>SSRN Electronic Journal</i> ,	1	1
9	Orthogonal CRISPR-Cas genome editing and efficient inhibition with anti-CRISPRs in zebrafish embryos		1
8	Potent Cas9 inhibition in bacterial and human cells by new anti-CRISPR protein families		1
7	Tissue-specific Genome Editing in vivo by MicroRNA-repressible Anti-CRISPR Proteins		1
6	Shutting down RNA-targeting CRISPR. <i>Science</i> , 2020 , 369, 31-32	33.3	0
5	Quit stalling or you'll be silenced. <i>Cell</i> , 2013 , 152, 938-9	56.2	0
4	CRISPR Shields: Fending Off Diverse Cas Nucleases with Nucleus-like Structures. <i>Molecular Cell</i> , 2020 , 77, 934-936	17.6	
3	CRISPRs from scratch. <i>Nature Microbiology</i> , 2018 , 3, 261-262	26.6	
2	RNA. CRISPR goes retro. <i>Science</i> , 2016 , 351, 920-1	33.3	
1	Accelerating expansion. <i>Rna</i> , 2015 , 21, 510	5.8	