

Matthew D Simon

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.

58
papers

4,660
citations

25
h-index

63
g-index

63
ext. papers

5,770
ext. citations

15.2
avg, IF

5.52
L-index

#	Paper	IF	Citations
58	The long noncoding RNAs NEAT1 and MALAT1 bind active chromatin sites. <i>Molecular Cell</i> , 2014 , 55, 791-802	11.6	421
57	Innate immune responses activated in Arabidopsis roots by microbe-associated molecular patterns. <i>Plant Cell</i> , 2010 , 22, 973-90	11.6	393
56	The site-specific installation of methyl-lysine analogs into recombinant histones. <i>Cell</i> , 2007 , 128, 1003-12	56.2	368
55	mA mRNA methylation controls T cell homeostasis by targeting the IL-7/STAT5/SOCS pathways. <i>Nature</i> , 2017 , 548, 338-342	50.4	367
54	Jumonji modulates polycomb activity and self-renewal versus differentiation of stem cells. <i>Cell</i> , 2009 , 139, 1303-14	56.2	360
53	The genomic binding sites of a noncoding RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 20497-502	11.5	333
52	High-resolution Xist binding maps reveal two-step spreading during X-chromosome inactivation. <i>Nature</i> , 2013 , 504, 465-469	50.4	289
51	Chromodomain-mediated oligomerization of HP1 suggests a nucleosome-bridging mechanism for heterochromatin assembly. <i>Molecular Cell</i> , 2011 , 41, 67-81	17.6	214
50	Genome-wide CRISPR Screens Reveal Host Factors Critical for SARS-CoV-2 Infection. <i>Cell</i> , 2021 , 184, 76-91.e13	56.2	202
49	The effect of H3K79 dimethylation and H4K20 trimethylation on nucleosome and chromatin structure. <i>Nature Structural and Molecular Biology</i> , 2008 , 15, 1122-4	17.6	176
48	ING4 mediates crosstalk between histone H3 K4 trimethylation and H3 acetylation to attenuate cellular transformation. <i>Molecular Cell</i> , 2009 , 33, 248-56	17.6	166
47	Polycomb proteins remain bound to chromatin and DNA during DNA replication in vitro. <i>Cell</i> , 2009 , 137, 110-22	56.2	141
46	Tracking Distinct RNA Populations Using Efficient and Reversible Covalent Chemistry. <i>Molecular Cell</i> , 2015 , 59, 858-66	17.6	118
45	Histone H3 lysine 36 dimethylation (H3K36me2) is sufficient to recruit the Rpd3s histone deacetylase complex and to repress spurious transcription. <i>Journal of Biological Chemistry</i> , 2009 , 284, 7970-6	5.4	117
44	A chromatin-dependent role of the fragile X mental retardation protein FMRP in the DNA damage response. <i>Cell</i> , 2014 , 157, 869-81	56.2	113
43	TimeLapse-seq: adding a temporal dimension to RNA sequencing through nucleoside recoding. <i>Nature Methods</i> , 2018 , 15, 221-225	21.6	105
42	Probing Xist RNA Structure in Cells Using Targeted Structure-Seq. <i>PLoS Genetics</i> , 2015 , 11, e1005668	6	91

41	Antisense lncRNA Transcription Mediates DNA Demethylation to Drive Stochastic Protocadherin \square Promoter Choice. <i>Cell</i> , 2019 , 177, 639-653.e15	56.2	73
40	Multiplexed Illumina sequencing libraries from picogram quantities of DNA. <i>BMC Genomics</i> , 2013 , 14, 466	4.5	62
39	LSD2/KDM1B and its cofactor NPAC/GLYR1 endow a structural and molecular model for regulation of H3K4 demethylation. <i>Molecular Cell</i> , 2013 , 49, 558-70	17.6	61
38	The Properties of Long Noncoding RNAs That Regulate Chromatin. <i>Annual Review of Genomics and Human Genetics</i> , 2016 , 17, 69-94	9.7	61
37	p53 Activates the Long Noncoding RNA Pvt1b to Inhibit Myc and Suppress Tumorigenesis. <i>Molecular Cell</i> , 2020 , 77, 761-774.e8	17.6	59
36	Capture hybridization analysis of RNA targets (CHART). <i>Current Protocols in Molecular Biology</i> , 2013 , Chapter 21, Unit 21.25.	2.9	44
35	Interpreting Reverse Transcriptase Termination and Mutation Events for Greater Insight into the Chemical Probing of RNA. <i>Biochemistry</i> , 2017 , 56, 4713-4721	3.2	42
34	The polycomb group protein SUZ12 regulates histone H3 lysine 9 methylation and HP1 alpha distribution. <i>Chromosome Research</i> , 2007 , 15, 299-314	4.4	35
33	Insight into lncRNA biology using hybridization capture analyses. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2016 , 1859, 121-7	6	24
32	Carbodiimide reagents for the chemical probing of RNA structure in cells. <i>Rna</i> , 2019 , 25, 135-146	5.8	24
31	Enriching s U-RNA Using Methane Thiosulfonate (MTS) Chemistry. <i>Current Protocols in Chemical Biology</i> , 2016 , 8, 234-250	1.8	20
30	Dissecting the Engrailed homeodomain-DNA interaction by phage-displayed shotgun scanning. <i>Chemistry and Biology</i> , 2004 , 11, 1017-23		19
29	Installation of site-specific methylation into histones using methyl lysine analogs. <i>Current Protocols in Molecular Biology</i> , 2010 , Chapter 21, Unit 21.18.1-10	2.9	17
28	Expanding the Nucleoside Recoding Toolkit: Revealing RNA Population Dynamics with 6-Thioguanosine. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14567-14570	16.4	17
27	Gaining insight into transcriptome-wide RNA population dynamics through the chemistry of 4-thiouridine. <i>Wiley Interdisciplinary Reviews RNA</i> , 2019 , 10, e1513	9.3	15
26	Catching RNAs on chromatin using hybridization capture methods. <i>Briefings in Functional Genomics</i> , 2018 , 17, 96-103	4.9	14
25	Hyperosmotic stress alters the RNA polymerase II interactome and induces readthrough transcription despite widespread transcriptional repression. <i>Molecular Cell</i> , 2021 , 81, 502-513.e4	17.6	14
24	Solid phase chemistry to covalently and reversibly capture thiolated RNA. <i>Nucleic Acids Research</i> , 2018 , 46, 6996-7005	20.1	12

23	Adaptability at a protein-DNA interface: re-engineering the engrailed homeodomain to recognize an unnatural nucleotide. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8078-9	16.4	12
22	A phage display selection of engrailed homeodomain mutants and the importance of residue Q50. <i>Nucleic Acids Research</i> , 2004 , 32, 3623-31	20.1	11
21	A method to site-specifically incorporate methyl-lysine analogues into recombinant proteins. <i>Methods in Enzymology</i> , 2012 , 512, 57-69	1.7	10
20	Global Profiling of Cellular Substrates of Human Dcp2. <i>Biochemistry</i> , 2020 , 59, 4176-4188	3.2	8
19	The NBDY Microprotein Regulates Cellular RNA Decapping. <i>Biochemistry</i> , 2020 , 59, 4131-4142	3.2	8
18	Structure and properties of a re-engineered homeodomain protein-DNA interface. <i>ACS Chemical Biology</i> , 2006 , 1, 755-60	4.9	4
17	Antisense lncRNA transcription drives stochastic Protocadherin β promoter choice		3
16	Capture Hybridization Analysis of DNA Targets. <i>Methods in Molecular Biology</i> , 2016 , 1480, 87-97	1.4	3
15	Discovery of cellular substrates of human RNA-decapping enzyme DCP2 using a stapled bicyclic peptide inhibitor. <i>Cell Chemical Biology</i> , 2021 , 28, 463-474.e7	8.2	3
14	Enhanced nucleotide chemistry and toehold nanotechnology reveals lncRNA spreading on chromatin. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 297-304	17.6	2
13	Principles and Practices of Hybridization Capture Experiments to Study Long Noncoding RNAs That Act on Chromatin. <i>Cold Spring Harbor Perspectives in Biology</i> , 2019 , 11,	10.2	2
12	Revealing Biological Specificity by Engineering Protein-Ligand Interactions 115-139		2
11	Reengineering a tRNA Methyltransferase To Covalently Capture New RNA Substrates. <i>Journal of the American Chemical Society</i> , 2019 , 141, 17460-17465	16.4	1
10	The fragile X mental retardation protein FMRP plays a role in the DNA damage response. <i>FASEB Journal</i> , 2012 , 26, 88.1	0.9	1
9	Precision analysis of mutant U2AF1 activity reveals deployment of stress granules in myeloid malignancies.. <i>Molecular Cell</i> , 2022 , 82, 1107-1122.e7	17.6	1
8	Functional elements of the cis-regulatory lincRNA-p21.. <i>Cell Reports</i> , 2022 , 39, 110687	10.6	1
7	STL-seq reveals pause-release and termination kinetics for promoter-proximal paused RNA polymerase II transcripts. <i>Molecular Cell</i> , 2021 , 81, 4398-4412.e7	17.6	0
6	Stella β Role in Oocyte DNA Methylation Suggests Additional Activities of DNMT1. <i>Biochemistry</i> , 2019 , 58, 1833-1834	3.2	

- 5 High-Resolution Binding Atlas of U2AF1 Mutants Uncovers New Complexity in Splicing Alterations and Kinetics in Myeloid Malignancies. *Blood*, **2020**, 136, 3-4 2.2
- 4 U2AF1 Mutations Enhance Stress Granule Response in Myeloid Malignancies. *Blood*, **2021**, 138, 321-321 2.2
- 3 ALKBH5 Modulates Hematopoietic Stem and Progenitor Cell Energy Metabolism through m 6a Modification-Mediated RNA Stability. *Blood*, **2021**, 138, 298-298 2.2
- 2 Studying Stimulus-Induced Changes in RNA Dynamics by Mutational Mapping through TimeLapse-seq. *FASEB Journal*, **2018**, 32, lb23 0.9
- 1 Epigenetic mechanism: silent nucleosomal structures and non-coding RNAs.. *FASEB Journal*, **2013**, 27, 456.2 0.9