Chuan He

List of Publications by Year
in descending order

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359 papers	83,737 citations	527 127 h-index	460 272 g-index
398 all docs	398 docs citations	398 times ranked	41228 citing authors

#	Article	IF	Citations
1	N6-methyladenosine-dependent regulation of messenger RNA stability. Nature, 2014, 505, 117-120.	13.7	3,138
2	N6-Methyladenosine in nuclear RNA is a major substrate of the obesity-associated FTO. Nature Chemical Biology, 2011, 7, 885-887.	3.9	2,936
3	Tet Proteins Can Convert 5-Methylcytosine to 5-Formylcytosine and 5-Carboxylcytosine. Science, 2011, 333, 1300-1303.	6.0	2,898
4	ALKBH5 Is a Mammalian RNA Demethylase that Impacts RNA Metabolism and Mouse Fertility. Molecular Cell, 2013, 49, 18-29.	4.5	2,549
5	N6-methyladenosine Modulates Messenger RNA Translation Efficiency. Cell, 2015, 161, 1388-1399.	13.5	2,446
6	A METTL3â€“METTL14 complex mediates mammalian nuclear RNA N6-adenosine methylation. Nature Chemical Biology, 2014, 10, 93-95.	3.9	2,342
7	Tet-Mediated Formation of 5-Carboxylcytosine and Its Excision by TDG in Mammalian DNA. Science, 2011, 333, 1303-1307.	6.0	2,332
8	Dynamic RNA Modifications in Gene Expression Regulation. Cell, 2017, 169, 1187-1200.	13.5	2,222
9	Recognition of RNA N6-methyladenosine by IGF2BP proteins enhances mRNA stability and translation. Nature Cell Biology, 2018, 20, 285-295.	4.6	1,650
10	Global Epigenomic Reconfiguration During Mammalian Brain Development. Science, 2013, 341, 1237905.	6.0	1,609
11	Post-transcriptional gene regulation by mRNA modifications. Nature Reviews Molecular Cell Biology, 2017, 18, 31-42.	16.1	1,592
12	N6-methyladenosine-dependent RNA structural switches regulate RNAâ€“protein interactions. Nature, 2015, 518, 560-564.	13.7	1,482
13	Gene expression regulation mediated through reversible m6A RNA methylation. Nature Reviews Genetics, 2014, 15, 293-306.	7.7	1,401
14	YTHDF3 facilitates translation and decay of N6-methyladenosine-modified RNA. Cell Research, 2017, 27, 315-328.	5.7	1,220
15	FTO Plays an Oncogenic Role in Acute Myeloid Leukemia as a N 6 -Methyladenosine RNA Demethylase. Cancer Cell, 2017, 31, 127-141.	7.7	1,139
16	m 6 A Demethylase ALKBH5 Maintains Tumorigenicity of Glioblastoma Stem-like Cells by Sustaining FOXM1 Expression and Cell Proliferation Program. Cancer Cell, 2017, 31, 591-606.e6.	7.7	1,131
17	Where, When, and How: Context-Dependent Functions of RNA Methylation Writers, Readers, and Erasers. Molecular Cell, 2019, 74, 640-650.	4.5	1,096
18	m 6 A RNA Methylation Regulates the Self-Renewal and Tumorigenesis of Glioblastoma Stem Cells. Cell Reports, 2017, 18, 2622-2634.	2.9	1,026

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19	Selective chemical labeling reveals the genome-wide distribution of 5-hydroxymethylcytosine. Nature Biotechnology, 2011, 29, 68-72.	9.4	955
20	Base-Resolution Analysis of 5-Hydroxymethylcytosine in the Mammalian Genome. Cell, 2012, 149, 1368-1380.	13.5	912
21	FTO-dependent demethylation of N6-methyladenosine regulates mRNA splicing and is required for adipogenesis. Cell Research, 2014, 24, 1403-1419.	5.7	869
22	YTHDC1 mediates nuclear export of N6-methyladenosine methylated mRNAs. ELife, 2017, 6, .	2.8	815
23	R-2HG Exhibits Anti-tumor Activity by Targeting FTO/m6A/MYC/CEBPA Signaling. Cell, 2018, 172, 90-105.e23.	13.5	794
24	The dynamic N1-methyladenosine methylome in eukaryotic messenger RNA. Nature, 2016, 530, 441-446.	13.7	765
25	RNA modifications modulate gene expression during development. Science, 2018, 361, 1346-1349.	6.0	762
26	METTL14 Inhibits Hematopoietic Stem/Progenitor Differentiation and Promotes Leukemogenesis via mRNA m6A Modification. Cell Stem Cell, 2018, 22, 191-205.e9.	5.2	749
27	5-hmCâ€“mediated epigenetic dynamics during postnatal neurodevelopment and aging. Nature Neuroscience, 2011, 14, 1607-1616.	7.1	746
28	RNA N⁶-methyladenosine methylation in post-transcriptional gene expression regulation. Genes and Development, 2015, 29, 1343-1355.	2.7	727
29	Ythdc2 is an N6-methyladenosine binding protein that regulates mammalian spermatogenesis. Cell Research, 2017, 27, 1115-1127.	5.7	696
30	RNA m6A methylation regulates the ultraviolet-induced DNA damage response. Nature, 2017, 543, 573-576.	13.7	685
31	Anti-tumour immunity controlled through mRNA m6A methylation and YTHDF1 in dendritic cells. Nature, 2019, 566, 270-274.	13.7	681
32	VIRMA mediates preferential m6A mRNA methylation in 3â€²UTR and near stop codon and associates with alternative polyadenylation. Cell Discovery, 2018, 4, 10.	3.1	643
33	Zc3h13 Regulates Nuclear RNA m6A Methylation and Mouse Embryonic Stem Cell Self-Renewal. Molecular Cell, 2018, 69, 1028-1038.e6.	4.5	618
34	DNA Methylation on N6-Adenine in C.Âelegans. Cell, 2015, 161, 868-878.	13.5	602
35	m6A mRNA methylation regulates AKT activity to promote the proliferation and tumorigenicity of endometrial cancer. Nature Cell Biology, 2018, 20, 1074-1083.	4.6	592
36	N6-Methyladenine DNA Modification in Drosophila. Cell, 2015, 161, 893-906.	13.5	570

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37	Temporal Control of Mammalian Cortical Neurogenesis by m6A Methylation. Cell, 2017, 171, 877-889.e17.	13.5	567
38	Structural basis for selective binding of m6A RNA by the YTHDC1 YTH domain. Nature Chemical Biology, 2014, 10, 927-929.	3.9	552
39	Differential m6A, m6Am, and m1A Demethylation Mediated by FTO in the Cell Nucleus and Cytoplasm. Molecular Cell, 2018, 71, 973-985.e5.	4.5	506
40	Genome-wide Profiling of 5-Formylcytosine Reveals Its Roles in Epigenetic Priming. Cell, 2013, 153, 678-691.	13.5	502
41	N6-Methyldeoxyadenosine Marks Active Transcription Start Sites in Chlamydomonas. Cell, 2015, 161, 879-892.	13.5	477
42	Selective fluorescent probes for live-cell monitoring of sulphide. Nature Communications, 2011, 2, 495.	5.8	472
43	m6A mRNA demethylase FTO regulates melanoma tumorigenicity and response to anti-PD-1 blockade. Nature Communications, 2019, 10, 2782.	5.8	468
44	Histone H3 trimethylation at lysine 36 guides m6A RNA modification co-transcriptionally. Nature, 2019, 567, 414-419.	13.7	452
45	Programming and Inheritance of Parental DNA Methylomes in Mammals. Cell, 2014, 157, 979-991.	13.5	451
46	m6A-dependent maternal mRNA clearance facilitates zebrafish maternal-to-zygotic transition. Nature, 2017, 542, 475-478.	13.7	437
47	N6-methyladenosine (m6A) recruits and repels proteins to regulate mRNA homeostasis. Nature Structural and Molecular Biology, 2017, 24, 870-878.	3.6	432
48	Efficient and quantitative high-throughput tRNA sequencing. Nature Methods, 2015, 12, 835-837.	9.0	426
49	Probing N⁶-methyladenosine RNA modification status at single nucleotide resolution in mRNA and long noncoding RNA. Rna, 2013, 19, 1848-1856.	1.6	421
50	N ⁶ -methyladenosine of chromosome-associated regulatory RNA regulates chromatin state and transcription. Science, 2020, 367, 580-586.	6.0	406
51	ALKBH1-Mediated tRNA Demethylation Regulates Translation. Cell, 2016, 167, 816-828.e16.	13.5	366
52	Grand Challenge Commentary: RNA epigenetics?. Nature Chemical Biology, 2010, 6, 863-865.	3.9	363
53	Oxidative demethylation of 3â€methylthymine and 3â€methyluracil in singleâ€stranded DNA and RNA by mouse and human FTO. FEBS Letters, 2008, 582, 3313-3319.	1.3	359
54	m6A facilitates hippocampus-dependent learning and memory through YTHDF1. Nature, 2018, 563, 249-253.	13.7	354

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55	FTO-mediated formation of N6-hydroxymethyladenosine and N6-formyladenosine in mammalian RNA. Nature Communications, 2013, 4, 1798.	5.8	349
56	Unique features of the m6A methylome in Arabidopsis thaliana. Nature Communications, 2014, 5, 5630.	5.8	342
57	Highâ€Resolution N⁶â€Methyladenosine (m⁶A) Map Using Photoâ€Crosslinkingâ€Assisted m⁶A Sequencing. Angewandte Chemie - International Edition, 2015, 54, 1587-1590.	7.2	319
58	Dynamics of Human and Viral RNA Methylation during Zika Virus Infection. Cell Host and Microbe, 2016, 20, 666-673.	5.1	318
59	m ⁶ A RNA methylation: from mechanisms to therapeutic potential. EMBO Journal, 2021, 40, e105977.	3.5	316
60	Reversible RNA adenosine methylation in biological regulation. Trends in Genetics, 2013, 29, 108-115.	2.9	314
61	Epigenetic mechanisms in neurogenesis. Nature Reviews Neuroscience, 2016, 17, 537-549.	4.9	299
62	Mettl3-/Mettl14-mediated mRNA N6-methyladenosine modulates murine spermatogenesis. Cell Research, 2017, 27, 1216-1230.	5.7	298
63	Epitranscriptomic m6A Regulation of Axon Regeneration in the Adult Mammalian Nervous System. Neuron, 2018, 97, 313-325.e6.	3.8	292
64	Mechanism and Function of Oxidative Reversal of DNA and RNA Methylation. Annual Review of Biochemistry, 2014, 83, 585-614.	5.0	289
65	5mC Oxidation by Tet2 Modulates Enhancer Activity and Timing of Transcriptome Reprogramming during Differentiation. Molecular Cell, 2014, 56, 286-297.	4.5	285
66	Transcriptome-wide Mapping of Internal N7-Methylguanosine Methylome in Mammalian mRNA. Molecular Cell, 2019, 74, 1304-1316.e8.	4.5	276
67	Thymine DNA glycosylase specifically recognizes 5-carboxylcytosine-modified DNA. Nature Chemical Biology, 2012, 8, 328-330.	3.9	273
68	Single-base mapping of m ⁶ A by an antibody-independent method. Science Advances, 2019, 5, eaax0250.	4.7	270
69	Glutamate Dehydrogenase 1 Signals through Antioxidant Glutathione Peroxidase 1 to Regulate Redox Homeostasis and Tumor Growth. Cancer Cell, 2015, 27, 257-270.	7.7	269
70	Crystal structure of the YTH domain of YTHDF2 reveals mechanism for recognition of N6-methyladenosine. Cell Research, 2014, 24, 1493-1496.	5.7	266
71	A protein engineered to bind uranyl selectively and with femtomolar affinity. Nature Chemistry, 2014, 6, 236-241.	6.6	262
72	5-Hydroxymethylcytosine signatures in circulating cell-free DNA as diagnostic biomarkers for human cancers. Cell Research, 2017, 27, 1243-1257.	5.7	262

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73	N6-Methyladenosine methyltransferase ZCCHC4 mediates ribosomal RNA methylation. Nature Chemical Biology, 2019, 15, 88-94.	3.9	258
74	Integrating 5-Hydroxymethylcytosine into the Epigenomic Landscape of Human Embryonic Stem Cells. PLoS Genetics, 2011, 7, e1002154.	1.5	250
75	Regulation of Co-transcriptional Pre-mRNA Splicing by m6A through the Low-Complexity Protein hnRNPG. Molecular Cell, 2019, 76, 70-81.e9.	4.5	248
76	DNA Hydroxymethylation Profiling Reveals that WT1 Mutations Result in Loss of TET2 Function in Acute Myeloid Leukemia. Cell Reports, 2014, 9, 1841-1855.	2.9	237
77	Tet-assisted bisulfite sequencing of 5-hydroxymethylcytosine. Nature Protocols, 2012, 7, 2159-2170.	5.5	236
78	ALKBH10B Is an RNA N⁶-Methyladenosine Demethylase Affecting Arabidopsis Floral Transition. Plant Cell, 2017, 29, 2995-3011.	3.1	235
79	Crystal structures of DNA/RNA repair enzymes AlkB and ABH2 bound to dsDNA. Nature, 2008, 452, 961-965.	13.7	230
80	YTHDF2 reduction fuels inflammation and vascular abnormalization in hepatocellular carcinoma. Molecular Cancer, 2019, 18, 163.	7.9	230
81	Live Cell MicroRNA Imaging Using Cascade Hybridization Reaction. Journal of the American Chemical Society, 2015, 137, 6116-6119.	6.6	229
82	DNA N6-methyladenine: a new epigenetic mark in eukaryotes?. Nature Reviews Molecular Cell Biology, 2015, 16, 705-710.	16.1	228
83	N6-methyladenosine of HIV-1 RNA regulates viral infection and HIV-1 Gag protein expression. ELife, 2016, 5, .	2.8	227
84	Abundant DNA 6mA methylation during early embryogenesis of zebrafish and pig. Nature Communications, 2016, 7, 13052.	5.8	225
85	RNA Demethylase ALKBH5 Selectively Promotes Tumorigenesis and Cancer Stem Cell Self-Renewal in Acute Myeloid Leukemia. Cell Stem Cell, 2020, 27, 64-80.e9.	5.2	225
86	6-Phosphogluconate dehydrogenase links oxidative PPP, lipogenesis and tumour growth by inhibiting LKB1â€“AMPK signalling. Nature Cell Biology, 2015, 17, 1484-1496.	4.6	224
87	Silver-Catalyzed Intermolecular Amination of Cï£¿H Groups. Angewandte Chemie - International Edition, 2007, 46, 5184-5186.	7.2	222
88	Efficient Aziridination of Olefins Catalyzed by a Unique Disilver(I) Compound. Journal of the American Chemical Society, 2003, 125, 16202-16203.	6.6	219
89	Sensitive and specific single-molecule sequencing of 5-hydroxymethylcytosine. Nature Methods, 2012, 9, 75-77.	9.0	219
90	Nucleic Acid Modifications in Regulation of Gene Expression. Cell Chemical Biology, 2016, 23, 74-85.	2.5	219

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91	Nm-seq maps 2â€²-O-methylation sites in human mRNA with base precision. Nature Methods, 2017, 14, 695-698.	9.0	218
92	Ythdf2-mediated m6A mRNA clearance modulates neural development in mice. Genome Biology, 2018, 19, 69.	3.8	216
93	Structural insight into substrate preference for TET-mediated oxidation. Nature, 2015, 527, 118-122.	13.7	213
94	A Silver-Catalyzed Intramolecular Amidation of Saturated Cï£¿H Bonds. Angewandte Chemie - International Edition, 2004, 43, 4210-4212.	7.2	209
95	Circadian Clock Regulation of Hepatic Lipid Metabolism by Modulation of m6A mRNA Methylation. Cell Reports, 2018, 25, 1816-1828.e4.	2.9	207
96	Inhibition of human copper trafficking by a small molecule significantly attenuates cancer cell proliferation. Nature Chemistry, 2015, 7, 968-979.	6.6	205
97	Suppression of m6A reader Ythdf2 promotes hematopoietic stem cell expansion. Cell Research, 2018, 28, 904-917.	5.7	203
98	YTHDF3 Induces the Translation of m6A-Enriched Gene Transcripts to Promote Breast Cancer Brain Metastasis. Cancer Cell, 2020, 38, 857-871.e7.	7.7	203
99	Mapping recently identified nucleotide variants in the genome and transcriptome. Nature Biotechnology, 2012, 30, 1107-1116.	9.4	197
100	Bacterial infection remodels the DNA methylation landscape of human dendritic cells. Genome Research, 2015, 25, 1801-1811.	2.4	195
101	Direct Reversal of DNA Alkylation Damage. Chemical Reviews, 2006, 106, 215-232.	23.0	193
102	An integrated multi-omics approach identifies epigenetic alterations associated with Alzheimerâ€™s disease. Nature Genetics, 2020, 52, 1024-1035.	9.4	191
103	Impairment of DNA Methylation Maintenance Is the Main Cause of Global Demethylation in Naive Embryonic Stem Cells. Molecular Cell, 2016, 62, 848-861.	4.5	189
104	FMRP Modulates Neural Differentiation through m6A-Dependent mRNA Nuclear Export. Cell Reports, 2019, 28, 845-854.e5.	2.9	188
105	An oxidation-sensing mechanism is used by the global regulator MgrA in Staphylococcus aureus. , 2006, 2, 591-595.		183
106	A fluorescent probe for rapid detection of hydrogen sulfide in blood plasma and brain tissues in mice. Chemical Science, 2012, 3, 2920.	3.7	183
107	Genome-wide mapping of 5-hydroxymethylcytosines in circulating cell-free DNA as a non-invasive approach for early detection of hepatocellular carcinoma. Gut, 2019, 68, 2195-2205.	6.1	180
108	Effects of cytosine modifications on DNA flexibility and nucleosome mechanical stability. Nature Communications, 2016, 7, 10813.	5.8	177

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109	The emerging biology of RNA post-transcriptional modifications. RNA Biology, 2017, 14, 156-163.	1.5	177
110	Intramolecular Additions of Alcohols and Carboxylic Acids to Inert Olefins Catalyzed by Silver(I) Triflate. Organic Letters, 2005, 7, 4553-4556.	2.4	174
111	Recent Advances in Silverâ€Catalyzed Nitrene, Carbene, and Silyleneâ€Transfer Reactions. European Journal of Organic Chemistry, 2006, 2006, 4313-4322.	1.2	169
112	N6-methyladenosine modification enables viral RNA to escape recognition by RNA sensor RIG-I. Nature Microbiology, 2020, 5, 584-598.	5.9	169
113	Widespread occurrence ofN⁶-methyladenosine in bacterial mRNA. Nucleic Acids Research, 2015, 43, 6557-6567.	6.5	165
114	N6-methyladenosine modification and the YTHDF2 reader protein play cell type specific roles in lytic viral gene expression during Kaposi's sarcoma-associated herpesvirus infection. PLoS Pathogens, 2018, 14, e1006995.	2.1	162
115	EGFR/SRC/ERK-stabilized YTHDF2 promotes cholesterol dysregulation and invasive growth of glioblastoma. Nature Communications, 2021, 12, 177.	5.8	160
116	Regulation of Gene Expression by N-methyladenosine in Cancer. Trends in Cell Biology, 2019, 29, 487-499.	3.6	159
117	m6A mRNA methylation regulates human Î²-cell biology in physiological states and in type 2 diabetes. Nature Metabolism, 2019, 1, 765-774.	5.1	158
118	TET proteins safeguard bivalent promoters from de novo methylation in human embryonic stem cells. Nature Genetics, 2018, 50, 83-95.	9.4	156
119	N6-Deoxyadenosine Methylation in Mammalian Mitochondrial DNA. Molecular Cell, 2020, 78, 382-395.e8.	4.5	156
120	A dynamic N6-methyladenosine methylome regulates intrinsic and acquired resistance to tyrosine kinase inhibitors. Cell Research, 2018, 28, 1062-1076.	5.7	152
121	Nitrene Transfer Reactions Catalyzed by Gold Complexes. Journal of Organic Chemistry, 2006, 71, 5876-5880.	1.7	151
122	Protein cysteine phosphorylation of SarA/MgrA family transcriptional regulators mediates bacterial virulence and antibiotic resistance. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15461-15466.	3.3	151
123	Decoding the epitranscriptional landscape from native RNA sequences. Nucleic Acids Research, 2021, 49, e7-e7.	6.5	149
124	An Exceptionally Selective Lead(II)-Regulatory Protein fromRalstonia Metallidurans: Development of a Fluorescent Lead(II) Probe. Angewandte Chemie - International Edition, 2005, 44, 2715-2719.	7.2	148
125	Chemical Modifications in the Life of an mRNA Transcript. Annual Review of Genetics, 2018, 52, 349-372.	3.2	147
126	METTL16 exerts an m6A-independent function to facilitate translation and tumorigenesis. Nature Cell Biology, 2022, 24, 205-216.	4.6	143

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127	Molecular basis for 5-carboxycytosine recognition by RNA polymerase II elongation complex. Nature, 2015, 523, 621-625.	13.7	141
128	Bisulfite-free, base-resolution analysis of 5-formylcytosine at the genome scale. Nature Methods, 2015, 12, 1047-1050.	9.0	141
129	Upregulation of METTL14 mediates the elevation of PERP mRNA N6 adenosine methylation promoting the growth and metastasis of pancreatic cancer. Molecular Cancer, 2020, 19, 130.	7.9	140
130	The Pseudomonas aeruginosa multidrug efflux regulator MexR uses an oxidation-sensing mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13586-13591.	3.3	139
131	Dynamic RNA Modifications in Posttranscriptional Regulation. Molecular Cell, 2014, 56, 5-12.	4.5	139
132	A metabolic labeling method detects m6A transcriptome-wide at single base resolution. Nature Chemical Biology, 2020, 16, 887-895.	3.9	133
133	RNA cytosine methylation and methyltransferases mediate chromatin organization and 5-azacytidine response and resistance in leukaemia. Nature Communications, 2018, 9, 1163.	5.8	132
134	N6-methyladenosine dynamics in neurodevelopment and aging, and its potential role in Alzheimerâ€™s disease. Genome Biology, 2021, 22, 17.	3.8	131
135	N6-methyldeoxyadenine is a transgenerational epigenetic signal for mitochondrial stress adaptation. Nature Cell Biology, 2019, 21, 319-327.	4.6	130
136	The AlkB Domain of Mammalian ABH8 Catalyzes Hydroxylation of 5â€Methoxycarbonylmethyluridine at the Wobble Position of tRNA. Angewandte Chemie - International Edition, 2010, 49, 8885-8888.	7.2	129
137	A Selective Fluorescent Probe for Carbon Monoxide Imaging in Living Cells. Angewandte Chemie - International Edition, 2012, 51, 9652-9656.	7.2	129
138	Loss of 5-hydroxymethylcytosine is linked to gene body hypermethylation in kidney cancer. Cell Research, 2016, 26, 103-118.	5.7	129
139	The multiple antibiotic resistance regulator MarR is a copper sensor in Escherichia coli. Nature Chemical Biology, 2014, 10, 21-28.	3.9	128
140	A Highly Sensitive and Robust Method for Genome-wide 5hmC Profiling of Rare Cell Populations. Molecular Cell, 2016, 63, 711-719.	4.5	128
141	Enhanced 5-methylcytosine detection in single-molecule, real-time sequencing via Tet1 oxidation. BMC Biology, 2013, 11, 4.	1.7	125
142	Metabolic Rewiring by Oncogenic BRAF V600E Links Ketogenesis Pathway to BRAF-MEK1 Signaling. Molecular Cell, 2015, 59, 345-358.	4.5	125
143	DNA Repair by Reversal of DNA Damage. Cold Spring Harbor Perspectives in Biology, 2013, 5, a012575-a012575.	2.3	121
144	Sources of artifact in measurements of 6mA and 4mC abundance in eukaryotic genomic DNA. BMC Genomics, 2019, 20, 445.	1.2	120

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145	A new oxidative sensing and regulation pathway mediated by the MgrA homologue SarZ in Staphylococcus aureus. Molecular Microbiology, 2009, 71, 198-211.	1.2	119
146	RNA epigenetics â€" chemical messages for posttranscriptional gene regulation. Current Opinion in Chemical Biology, 2016, 30, 46-51.	2.8	119
147	MeCP2 recognizes cytosine methylated tri-nucleotide and di-nucleotide sequences to tune transcription in the mammalian brain. PLoS Genetics, 2017, 13, e1006793.	1.5	117
148	Chemical Modification-Assisted Bisulfite Sequencing (CAB-Seq) for 5-Carboxylcytosine Detection in DNA. Journal of the American Chemical Society, 2013, 135, 9315-9317.	6.6	116
149	Nuclear m 6 A Reader YTHDC1 Regulates mRNA Splicing. Trends in Genetics, 2016, 32, 320-321.	2.9	115
150	m6A RNA modifications are measured at single-base resolution across the mammalian transcriptome. Nature Biotechnology, 2022, 40, 1210-1219.	9.4	115
151	miR-22 has a potent anti-tumour role with therapeutic potential in acute myeloid leukaemia. Nature Communications, 2016, 7, 11452.	5.8	113
152	Evolution of a reverse transcriptase to map N1-methyladenosine in human messenger RNA. Nature Methods, 2019, 16, 1281-1288.	9.0	113
153	Genetic analyses support the contribution of mRNA N6-methyladenosine (m6A) modification to human disease heritability. Nature Genetics, 2020, 52, 939-949.	9.4	113
154	Golden Pigment Production and Virulence Gene Expression Are Affected by Metabolisms in Staphylococcus aureus. Journal of Bacteriology, 2010, 192, 3068-3077.	1.0	111
155	Mettl14 Is Essential for Epitranscriptomic Regulation of Striatal Function and Learning. Neuron, 2018, 99, 283-292.e5.	3.8	110
156	Lysine Acetylation Activates 6-Phosphogluconate Dehydrogenase to Promote Tumor Growth. Molecular Cell, 2014, 55, 552-565.	4.5	107
157	RNAâ€"protein interaction mapping via MS2- or Cas13-based APEX targeting. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22068-22079.	3.3	105
158	A Non-Heme Iron-Mediated Chemical Demethylation in DNA and RNA. Accounts of Chemical Research, 2009, 42, 519-529.	7.6	102
159	Genome-wide analysis of N¹-methyl-adenosine modification in human tRNAs. Rna, 2010, 16, 1317-1327.	1.6	102
160	RNA demethylation increases the yield and biomass of rice and potato plants in field trials. Nature Biotechnology, 2021, 39, 1581-1588.	9.4	102
161	Reading RNA methylation codes through methyl-specific binding proteins. RNA Biology, 2014, 11, 669-672.	1.5	99
162	Epitranscriptomic influences on development and disease. Genome Biology, 2017, 18, 197.	3.8	97

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163	FTO mediates LINE1 m ⁶A demethylation and chromatin regulation in mESCs and mouse development. Science, 2022, 376, 968-973.	6.0	97
164	m6A mRNA Methylation Is Essential for Oligodendrocyte Maturation and CNS Myelination. Neuron, 2020, 105, 293-309.e5.	3.8	96
165	Synthesis of a FTO Inhibitor with Anticonvulsant Activity. ACS Chemical Neuroscience, 2014, 5, 658-665.	1.7	94
166	Hydroxymethylation at Gene Regulatory Regions Directs Stem/Early Progenitor Cell Commitment during Erythropoiesis. Cell Reports, 2014, 6, 231-244.	2.9	93
167	Characterization of eukaryotic DNA N6-methyladenine by a highly sensitive restriction enzyme-assisted sequencing. Nature Communications, 2016, 7, 11301.	5.8	93
168	Quorum-sensing agr mediates bacterial oxidation response via an intramolecular disulfide redox switch in the response regulator AgrA. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9095-9100.	3.3	92
169	2â€²-O-methylation in mRNA disrupts tRNA decoding during translation elongation. Nature Structural and Molecular Biology, 2018, 25, 208-216.	3.6	92
170	Targeted m⁶A Reader Proteins To Study Epitranscriptomic Regulation of Single RNAs. Journal of the American Chemical Society, 2018, 140, 11974-11981.	6.6	92
171	Post-translational modification of RNA m6A demethylase ALKBH5 regulates ROS-induced DNA damage response. Nucleic Acids Research, 2021, 49, 5779-5797.	6.5	92
172	TET Family Proteins: Oxidation Activity, Interacting Molecules, and Functions in Diseases. Chemical Reviews, 2015, 115, 2225-2239.	23.0	89
173	Tet2 loss leads to hypermutagenicity in haematopoietic stem/progenitor cells. Nature Communications, 2017, 8, 15102.	5.8	88
174	The Structure of the Human AGT Protein Bound to DNA and its Implications for Damage Detection. Journal of Molecular Biology, 2005, 350, 657-666.	2.0	87
175	METTL3-dependent RNA m6A dysregulation contributes to neurodegeneration in Alzheimerâ€™s disease through aberrant cell cycle events. Molecular Neurodegeneration, 2021, 16, 70.	4.4	87
176	Crystal Structures of the Reduced, Sulfenic Acid, and Mixed Disulfide Forms of SarZ, a Redox Active Global Regulator in Staphylococcus aureus. Journal of Biological Chemistry, 2009, 284, 23517-23524.	1.6	85
177	Sprouts of RNA epigenetics. RNA Biology, 2013, 10, 915-918.	1.5	85
178	The RNA-binding protein FMRP facilitates the nuclear export of N6-methyladenosineâ€“containing mRNAs. Journal of Biological Chemistry, 2019, 294, 19889-19895.	1.6	84
179	Stabilization of ERK-Phosphorylated METTL3 by USP5 Increases m6A Methylation. Molecular Cell, 2020, 80, 633-647.e7.	4.5	83
180	A critical role of nuclear m6A reader YTHDC1 in leukemogenesis by regulating MCM complexâ€“mediated DNA replication. Blood, 2021, 138, 2838-2852.	0.6	83

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