List of Publications by Year in descending order

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ΤΛΟ ΡΛΝ

#	Article	IF	CITATIONS
1	N6-methyladenosine-dependent regulation of messenger RNA stability. Nature, 2014, 505, 117-120.	27.8	3,138
2	Dynamic RNA Modifications in Gene Expression Regulation. Cell, 2017, 169, 1187-1200.	28.9	2,222
3	N6-methyladenosine-dependent RNA structural switches regulate RNA–protein interactions. Nature, 2015, 518, 560-564.	27.8	1,482
4	The dynamic N1-methyladenosine methylome in eukaryotic messenger RNA. Nature, 2016, 530, 441-446.	27.8	765
5	N 6-methyladenosine alters RNA structure to regulate binding of a low-complexity protein. Nucleic Acids Research, 2017, 45, 6051-6063.	14.5	586
6	Efficient and quantitative high-throughput tRNA sequencing. Nature Methods, 2015, 12, 835-837.	19.0	426
7	Reversible, Specific, Active Aggregates of Endogenous Proteins Assemble upon Heat Stress. Cell, 2015, 162, 1286-1298.	28.9	395
8	ALKBH1-Mediated tRNA Demethylation Regulates Translation. Cell, 2016, 167, 816-828.e16.	28.9	366
9	N6-methyladenosine–encoded epitranscriptomics. Nature Structural and Molecular Biology, 2016, 23, 98-102.	8.2	266
10	Modifications and functional genomics of human transfer RNA. Cell Research, 2018, 28, 395-404.	12.0	260
11	N6-Methyladenosine methyltransferase ZCCHC4 mediates ribosomal RNA methylation. Nature Chemical Biology, 2019, 15, 88-94.	8.0	258
12	Regulation of Co-transcriptional Pre-mRNA Splicing by m6A through the Low-Complexity Protein hnRNPG. Molecular Cell, 2019, 76, 70-81.e9.	9.7	248
13	A Role for tRNA Modifications in Genome Structure and Codon Usage. Cell, 2012, 149, 202-213.	28.9	239
14	Angiogenin-Cleaved tRNA Halves Interact with Cytochrome <i>c</i> , Protecting Cells from Apoptosis during Osmotic Stress. Molecular and Cellular Biology, 2014, 34, 2450-2463.	2.3	236
15	RNA FOLDING DURING TRANSCRIPTION. Annual Review of Biophysics and Biomolecular Structure, 2006, 35, 161-175.	18.3	227
16	RNA modifications and structures cooperate to guide RNA–protein interactions. Nature Reviews Molecular Cell Biology, 2017, 18, 202-210.	37.0	225
17	RNA modifications: what have we learned and where are we headed?. Nature Reviews Genetics, 2016, 17, 365-372.	16.3	215
18	Intermediates and kinetic traps in the folding of a large ribozyme revealed by circular dichroism and UV absorbance spectroscopies and catalytic activity. Nature Structural and Molecular Biology, 1997, 4, 931-938.	8.2	184

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19	N6-methyl-adenosine modification in messenger and long non-coding RNA. Trends in Biochemical Sciences, 2013, 38, 204-209.	7.5	181
20	Diversity of tRNA genes in eukaryotes. Nucleic Acids Research, 2006, 34, 6137-6146.	14.5	180
21	N6-Methyladenosine Modification in a Long Noncoding RNA Hairpin Predisposes Its Conformation to Protein Binding. Journal of Molecular Biology, 2016, 428, 822-833.	4.2	164
22	tRNA base methylation identification and quantification via high-throughput sequencing. Rna, 2016, 22, 1771-1784.	3.5	148
23	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.	13.8	129
24	Mg2+-Dependent Compaction and Folding of Yeast tRNAPhe and the Catalytic Domain of the B. subtilis RNase P RNA Determined by Small-Angle X-ray Scattering. Biochemistry, 2000, 39, 11107-11113.	2.5	118
25	RNA epigenetics. Translational Research, 2015, 165, 28-35.	5.0	111
26	Recognition of the T Stemâ^'Loop of a Pre-tRNA Substrate by the Ribozyme fromBacillus subtilisRibonuclease Pâ€. Biochemistry, 1997, 36, 6317-6325.	2.5	109
27	Mg2+-dependent folding of a large ribozyme without kinetic traps. Nature Structural Biology, 1999, 6, 1091-1095.	9.7	108
28	Adaptive Translation as a Mechanism of Stress Response and Adaptation. Annual Review of Genetics, 2013, 47, 121-137.	7.6	102
29	A Thermodynamic Framework and Cooperativity in the Tertiary Folding of a Mg2+-Dependent Ribozyme. Biochemistry, 1999, 38, 16840-16846.	2.5	99
30	A Nutrient-Driven tRNA Modification Alters Translational Fidelity and Genome-wide Protein Coding across an Animal Genus. PLoS Biology, 2014, 12, e1002015.	5.6	93
31	Queuosine modification protects cognate tRNAs against ribonuclease cleavage. Rna, 2018, 24, 1305-1313.	3.5	92
32	Diversity of human tRNA genes from the 1000-genomes project. RNA Biology, 2013, 10, 1853-1867.	3.1	79
33	Determination of tRNA aminoacylation levels by high-throughput sequencing. Nucleic Acids Research, 2017, 45, e133-e133.	14.5	72
34	Temperature dependent mistranslation in a hyperthermophile adapts proteins to lower temperatures. Nucleic Acids Research, 2016, 44, 294-303.	14.5	67
35	RNA modification landscape of the human mitochondrial tRNALys regulates protein synthesis. Nature Communications, 2018, 9, 3966.	12.8	61
36	Recognition of the 5â€~ Leader and the Acceptor Stem of a Pre-tRNA Substrate by the Ribozyme from Bacillus subtilis RNase P. Biochemistry, 1998, 37, 10126-10133.	2.5	57

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37	The Bacillus subtilis RNase P holoenzyme contains two RNase P RNA and two RNase P protein subunits. Rna, 2001, 7, 233-241.	3.5	54
38	Microbiome characterization by high-throughput transfer RNA sequencing and modification analysis. Nature Communications, 2018, 9, 5353.	12.8	48
39	Codon optimality controls differential mRNA translation during amino acid starvation. Rna, 2016, 22, 1719-1727.	3.5	47
40	The Cleavage Step of Ribonuclease P Catalysis Is Determined by Ribozymeâ^'Substrate Interactions both Distal and Proximal to the Cleavage Site. Biochemistry, 1999, 38, 8612-8620.	2.5	46
41	Selective Enzymatic Demethylation of <i>N</i> ² , <i>N</i> ² â€Dimethylguanosine in RNA and Its Application in Highâ€Throughput tRNA Sequencing. Angewandte Chemie - International Edition, 2017, 56, 5017-5020.	13.8	44
42	tRNA modification dynamics from individual organisms to metaepitranscriptomics of microbiomes. Molecular Cell, 2022, 82, 891-906.	9.7	44
43	Interferon inducible pseudouridine modification in human mRNA by quantitative nanopore profiling. Genome Biology, 2021, 22, 330.	8.8	44
44	Sensitive and quantitative probing of pseudouridine modification in mRNA and long noncoding RNA. Rna, 2019, 25, 1218-1225.	3.5	41
45	ALKBH7-mediated demethylation regulates mitochondrial polycistronic RNA processing. Nature Cell Biology, 2021, 23, 684-691.	10.3	41
46	Structures of the m 6 A Methyltransferase Complex: Two Subunits with Distinct but Coordinated Roles. Molecular Cell, 2016, 63, 183-185.	9.7	40
47	HIV protease cleaves the antiviral m6A reader protein YTHDF3 in the viral particle. PLoS Pathogens, 2020, 16, e1008305.	4.7	40
48	Function and origin of mistranslation in distinct cellular contexts. Critical Reviews in Biochemistry and Molecular Biology, 2017, 52, 205-219.	5.2	38
49	Transcriptome-wide reprogramming of N6-methyladenosine modification by the mouse microbiome. Cell Research, 2019, 29, 167-170.	12.0	38
50	tRNA Queuosine Modification Enzyme Modulates the Growth and Microbiome Recruitment to Breast Tumors. Cancers, 2020, 12, 628.	3.7	38
51	Probing RNA Modification Status at Single-Nucleotide Resolution in Total RNA. Methods in Enzymology, 2015, 560, 149-159.	1.0	37
52	An additional class of m6A readers. Nature Cell Biology, 2018, 20, 230-232.	10.3	37
53	Evolutionary Gain of Alanine Mischarging to Noncognate tRNAs with a G4:U69 Base Pair. Journal of the American Chemical Society, 2016, 138, 12948-12955.	13.7	35
54	Altering the Intermediate in the Equilibrium Folding of Unmodified Yeast tRNAPhewith Monovalent and Divalent Cationsâ€. Biochemistry, 2001, 40, 3629-3638.	2.5	34

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55	Modular construction for function of a ribonucleoprotein enzyme: the catalytic domain of Bacillus subtilis RNase P complexed with B.subtilis RNase P protein. Nucleic Acids Research, 2001, 29, 1892-1897.	14.5	34
56	Modular Construction of a Tertiary RNA Structure:  The Specificity Domain of the Bacillus subtilis RNase P RNA. Biochemistry, 2001, 40, 11202-11210.	2.5	32
57	Global tRNA misacylation induced by anaerobiosis and antibiotic exposure broadly increases stress resistance in <i>Escherichia coli</i> . Nucleic Acids Research, 2016, 44, gkw856.	14.5	31
58	CMT disease severity correlates with mutation-induced open conformation of histidyl-tRNA synthetase, not aminoacylation loss, in patient cells. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19440-19448.	7.1	28
59	Pseudouridines have context-dependent mutation and stop rates in high-throughput sequencing. RNA Biology, 2018, 15, 892-900.	3.1	25
60	Stress Response and Adaptation Mediated by Amino Acid Misincorporation during Protein Synthesis. Advances in Nutrition, 2016, 7, 773S-779S.	6.4	24
61	5-Methylcytosine RNA Modifications Promote Retrovirus Replication in an ALYREF Reader Protein-Dependent Manner. Journal of Virology, 2020, 94, .	3.4	22
62	Probing N 6-methyladenosine (m6A) RNA Modification in Total RNA with SCARLET. Methods in Molecular Biology, 2016, 1358, 285-292.	0.9	21
63	Methionine Mistranslation Bypasses the Restraint of the Genetic Code to Generate Mutant Proteins with Distinct Activities. PLoS Genetics, 2015, 11, e1005745.	3.5	21
64	A multiplex platform for small RNA sequencing elucidates multifaceted tRNA stress response and translational regulation. Nature Communications, 2022, 13, 2491.	12.8	21
65	The 3′ substrate determinants for the catalytic efficiency of the Bacillus subtilis RNase P holoenzyme suggest autolytic processing of the RNase P RNA in vivo. Rna, 2000, 6, 1413-1422.	3.5	20
66	Design and isolation of ribozyme-substrate pairs using RNase P-based ribozymes containing altered substrate binding sites. Nucleic Acids Research, 1999, 27, 4298-4304.	14.5	18
67	CMT2N-causing aminoacylation domain mutants enable Nrp1 interaction with AlaRS. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	16
68	Hili Inhibits HIV Replication in Activated T Cells. Journal of Virology, 2017, 91, .	3.4	15
69	A dual fluorescent reporter for the investigation of methionine mistranslation in live cells. Rna, 2016, 22, 467-476.	3.5	14
70	Detection and quantification of glycosylated queuosine modified tRNAs by acid denaturing and APB gels. Rna, 2020, 26, 1291-1298.	3.5	13
71	Determining the fidelity of tRNA aminoacylation via microarrays. Methods, 2017, 113, 27-33.	3.8	11
72	Tissue-specific reprogramming of host tRNA transcriptome by the microbiome. Genome Research, 2021, 31, 947-957.	5.5	11

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73	A high-throughput screening method for evolving a demethylase enzyme with improved and new functionalities. Nucleic Acids Research, 2021, 49, e30-e30.	14.5	11
74	Cross-editing by a tRNA synthetase allows vertebrates to abundantly express mischargeable tRNA without causing mistranslation. Nucleic Acids Research, 2020, 48, 6445-6457.	14.5	10
75	Interaction of tRNA with MEK2 in pancreatic cancer cells. Scientific Reports, 2016, 6, 28260.	3.3	8
76	Analysis of queuosine and 2-thio tRNA modifications by high throughput sequencing. Nucleic Acids Research, 2022, 50, e99-e99.	14.5	8
77	tRNA Misacylation with Methionine in the Mouse Gut Microbiome in Situ. Microbial Ecology, 2017, 74, 10-14.	2.8	6
78	Pseudouridine RNA modification detection and quantification by RT-PCR. Methods, 2022, 203, 1-4.	3.8	6
79	Identification of N 6 -methyladenosine reader proteins. Methods, 2017, 126, 105-111.	3.8	5
80	Quantitative probing of glycosylated queuosine modifications in tRNA. Methods in Enzymology, 2021, 658, 73-82.	1.0	4
81	Quantification of Queuosine Modification Levels in tRNA from Human Cells Using APB Gel and Northern Blot. Bio-protocol, 2019, 9, e3191.	0.4	4
82	My adventure in tRNA biology, so far. Rna, 2015, 21, 707-708.	3.5	3
83	Selective Enzymatic Demethylation of <i>N</i> ² , <i>N</i> ² â€Dimethylguanosine in RNA and Its Application in Highâ€Throughput tRNA Sequencing. Angewandte Chemie, 2017, 129, 5099-5102.	2.0	3
84	Cover Picture: The AlkB Domain of Mammalian ABH8 Catalyzes Hydroxylation of 5-Methoxycarbonylmethyluridine at the Wobble Position of tRNA (Angew. Chem. Int. Ed. 47/2010). Angewandte Chemie - International Edition, 2010, 49, 8765-8765.	13.8	2
85	Profiling Selective Packaging of Host RNA and Viral RNA Modification in SARS-CoV-2 Viral Preparations. Frontiers in Cell and Developmental Biology, 2022, 10, 768356.	3.7	2
86	A dual function PUS enzyme. Nature Chemical Biology, 2020, 16, 107-108.	8.0	1
87	Titelbild: The AlkB Domain of Mammalian ABH8 Catalyzes Hydroxylation of 5-Methoxycarbonylmethyluridine at the Wobble Position of tRNA (Angew. Chem. 47/2010). Angewandte Chemie, 2010, 122, 8947-8947.	2.0	0
88	Misâ€ŧranslation as a potential, new mechanism of adaption and stress response. FASEB Journal, 2013, 27, 325.2.	0.5	0
89	Methionine Misacylation of tRNA on CaMKII in Response to ER Stress. FASEB Journal, 2015, 29, 892.7.	0.5	0