Zhike Lu

List of Publications by Citations

41 papers	15,792 citations	35 h-index	48 g-index
48 ext. papers	21,203 ext. citations	21.4 avg, IF	6.29 L-index

#	Paper	IF	Citations
41	N6-methyladenosine-dependent regulation of messenger RNA stability. *Nature*, **2014**, 505, 117-20	50.4	1949
40	ALKBH5 is a mammalian RNA demethylase that impacts RNA metabolism and mouse fertility. *Molecular Cell*, **2013**, 49, 18-29	17.6	1627
39	N(6)-methyladenosine Modulates Messenger RNA Translation Efficiency. *Cell*, **2015**, 161, 1388-99	56.2	1493
38	A METTL3-METTL14 complex mediates mammalian nuclear RNA N6-adenosine methylation. *Nature Chemical Biology*, **2014**, 10, 93-5	11.7	1458
37	Identification of 67 histone marks and histone lysine crotonylation as a new type of histone modification. *Cell*, **2011**, 146, 1016-28	56.2	1150
36	mA Demethylase ALKBH5 Maintains Tumorigenicity of Glioblastoma Stem-like Cells by Sustaining FOXM1 Expression and Cell Proliferation Program. *Cancer Cell*, **2017**, 31, 591-606.e6	24.3	734
35	YTHDF3 facilitates translation and decay of N-methyladenosine-modified RNA. *Cell Research*, **2017**, 27, 315-328	24.7	696
34	mA RNA Methylation Regulates the Self-Renewal and Tumorigenesis of Glioblastoma Stem Cells. *Cell Reports*, **2017**, 18, 2622-2634	10.6	656
33	METTL14 Inhibits Hematopoietic Stem/Progenitor Differentiation and Promotes Leukemogenesis via mRNA mA Modification. *Cell Stem Cell*, **2018**, 22, 191-205.e9	18	476
32	RNA mA methylation regulates the ultraviolet-induced DNA damage response. *Nature*, **2017**, 543, 573-576	50.4	449
31	Ythdc2 is an N-methyladenosine binding protein that regulates mammalian spermatogenesis. *Cell Research*, **2017**, 27, 1115-1127	24.7	404
30	Structural basis for selective binding of m6A RNA by the YTHDC1 YTH domain. *Nature Chemical Biology*, **2014**, 10, 927-9	11.7	383
29	mA mRNA methylation regulates AKT activity to promote the proliferation and tumorigenicity of endometrial cancer. *Nature Cell Biology*, **2018**, 20, 1074-1083	23.4	358
28	mA-dependent maternal mRNA clearance facilitates zebrafish maternal-to-zygotic transition. *Nature*, **2017**, 542, 475-478	50.4	293
27	Differential mA, mA, and mA Demethylation Mediated by FTO in the Cell Nucleus and Cytoplasm. *Molecular Cell*, **2018**, 71, 973-985.e5	17.6	289
26	N-methyladenosine (mA) recruits and repels proteins to regulate mRNA homeostasis. *Nature Structural and Molecular Biology*, **2017**, 24, 870-878	17.6	261
25	Lysine 2-hydroxyisobutyrylation is a widely distributed active histone mark. *Nature Chemical Biology* , **2014**, 10, 365-70	11.7	259

24	mA mRNA demethylase FTO regulates melanoma tumorigenicity and response to anti-PD-1 blockade. *Nature Communications*, **2019**, 10, 2782	17.4	254
23	High-resolution N(6) -methyladenosine (m(6) A) map using photo-crosslinking-assisted m(6) A sequencing. *Angewandte Chemie - International Edition*, **2015**, 54, 1587-90	16.4	249
22	Unique features of the m6A methylome in Arabidopsis thaliana. *Nature Communications*, **2014**, 5, 5630	17.4	239
21	Histone H3 trimethylation at lysine 36 guides mA RNA modification co-transcriptionally. *Nature*, **2019**, 567, 414-419	50.4	232
20	Dynamics of Human and Viral RNA Methylation during Zika Virus Infection. *Cell Host and Microbe*, **2016**, 20, 666-673	23.4	221
19	mA facilitates hippocampus-dependent learning and memory through YTHDF1. *Nature*, **2018**, 563, 249-253	38.4	208
18	Mettl3-/Mettl14-mediated mRNA N-methyladenosine modulates murine spermatogenesis. *Cell Research*, **2017**, 27, 1216-1230	24.7	171
17	N(6)-methyladenosine of HIV-1 RNA regulates viral infection and HIV-1 Gag protein expression. *ELife*, **2016**, 5,	8.9	167
16	NMethyladenosine methyltransferase ZCCHC4 mediates ribosomal RNA methylation. *Nature Chemical Biology*, **2019**, 15, 88-94	11.7	149
15	Ythdf2-mediated mA mRNA clearance modulates neural development in mice. *Genome Biology*, **2018**, 19, 69	18.3	129
14	ALKBH10B Is an RNA -Methyladenosine Demethylase Affecting Arabidopsis Floral Transition. *Plant Cell*, **2017**, 29, 2995-3011	11.6	124
13	The mA Reader ECT2 Controls Trichome Morphology by Affecting mRNA Stability in Arabidopsis. *Plant Cell*, **2018**, 30, 968-985	11.6	121
12	YTHDF2 reduction fuels inflammation and vascular abnormalization in hepatocellular carcinoma. *Molecular Cancer*, **2019**, 18, 163	42.1	113
11	Transfer RNA demethylase ALKBH3 promotes cancer progression via induction of tRNA-derived small RNAs. *Nucleic Acids Research*, **2019**, 47, 2533-2545	20.1	108
10	-methyladenosine RNA modification-mediated cellular metabolism rewiring inhibits viral replication. *Science*, **2019**, 365, 1171-1176	33.3	78
9	Mettl14 Is Essential for Epitranscriptomic Regulation of Striatal Function and Learning. *Neuron*, **2018**, 99, 283-292.e5	13.9	71
8	A metabolic labeling method detects mA transcriptome-wide at single base resolution. *Nature Chemical Biology*, **2020**, 16, 887-895	11.7	70
7	The RNA-binding protein FMRP facilitates the nuclear export of -methyladenosine-containing mRNAs. *Journal of Biological Chemistry*, **2019**, 294, 19889-19895	5.4	41

6	Viral N-methyladenosine upregulates replication and pathogenesis of human respiratory syncytial virus. *Nature Communications*, **2019**, 10, 4595	17.4	35
5	Steady-state hydrogen peroxide induces glycolysis in Staphylococcus aureus and Pseudomonas aeruginosa. *Journal of Bacteriology*, **2014**, 196, 2499-513	3.5	26
4	High-Resolution N6-Methyladenosine (m6A) Map Using Photo-Crosslinking-Assisted m6A Sequencing. *Angewandte Chemie*, **2015**, 127, 1607-1610	3.6	26
3	Direct-seq: programmed gRNA scaffold for streamlined scRNA-seq in CRISPR screen. *Genome Biology*, **2020**, 21, 136	18.3	3
2	New Chromatin Run-On Reaction Enables Global Mapping of Active RNA Polymerase Locations in an Enrichment-free Manner.. *ACS Chemical Biology*, **2022**,	4.9	1
1	m6A facilitates hippocampus-dependent learning and memory through Ythdf1. *FASEB Journal*, **2018**, 32, 787.6	0.9	0