

Zhike Lu

List of Publications by Year in descending order

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42
papers

25,171
citations

101384

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docs citations

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times ranked

13428
citing authors

#	ARTICLE	IF	CITATIONS
1	N6-methyladenosine-dependent regulation of messenger RNA stability. <i>Nature</i> , 2014, 505, 117-120.	13.7	3,138
2	ALKBH5 Is a Mammalian RNA Demethylase that Impacts RNA Metabolism and Mouse Fertility. <i>Molecular Cell</i> , 2013, 49, 18-29.	4.5	2,549
3	N6-methyladenosine Modulates Messenger RNA Translation Efficiency. <i>Cell</i> , 2015, 161, 1388-1399.	13.5	2,446
4	A METTL3-METTL14 complex mediates mammalian nuclear RNA N6-adenosine methylation. <i>Nature Chemical Biology</i> , 2014, 10, 93-95.	3.9	2,342
5	Identification of 67 Histone Marks and Histone Lysine Crotonylation as a New Type of Histone Modification. <i>Cell</i> , 2011, 146, 1016-1028.	13.5	1,462
6	YTHDF3 facilitates translation and decay of N6-methyladenosine-modified RNA. <i>Cell Research</i> , 2017, 27, 315-328.	5.7	1,220
7	m6A Demethylase ALKBH5 Maintains Tumorigenicity of Glioblastoma Stem-like Cells by Sustaining FOXM1 Expression and Cell Proliferation Program. <i>Cancer Cell</i> , 2017, 31, 591-606.e6.	7.7	1,131
8	m6A RNA Methylation Regulates the Self-Renewal and Tumorigenesis of Glioblastoma Stem Cells. <i>Cell Reports</i> , 2017, 18, 2622-2634.	2.9	1,026
9	METTL14 Inhibits Hematopoietic Stem/Progenitor Differentiation and Promotes Leukemogenesis via mRNA m6A Modification. <i>Cell Stem Cell</i> , 2018, 22, 191-205.e9.	5.2	749
10	Ythdc2 is an N6-methyladenosine binding protein that regulates mammalian spermatogenesis. <i>Cell Research</i> , 2017, 27, 1115-1127.	5.7	696
11	RNA m6A methylation regulates the ultraviolet-induced DNA damage response. <i>Nature</i> , 2017, 543, 573-576.	13.7	685
12	m6A mRNA methylation regulates AKT activity to promote the proliferation and tumorigenicity of endometrial cancer. <i>Nature Cell Biology</i> , 2018, 20, 1074-1083.	4.6	592
13	Structural basis for selective binding of m6A RNA by the YTHDC1 YTH domain. <i>Nature Chemical Biology</i> , 2014, 10, 927-929.	3.9	552
14	Differential m6A, m6Am, and m1A Demethylation Mediated by FTO in the Cell Nucleus and Cytoplasm. <i>Molecular Cell</i> , 2018, 71, 973-985.e5.	4.5	506
15	m6A mRNA demethylase FTO regulates melanoma tumorigenicity and response to anti-PD-1 blockade. <i>Nature Communications</i> , 2019, 10, 2782.	5.8	468
16	Histone H3 trimethylation at lysine 36 guides m6A RNA modification co-transcriptionally. <i>Nature</i> , 2019, 567, 414-419.	13.7	452
17	m6A-dependent maternal mRNA clearance facilitates zebrafish maternal-to-zygotic transition. <i>Nature</i> , 2017, 542, 475-478.	13.7	437
18	N6-methyladenosine (m6A) recruits and repels proteins to regulate mRNA homeostasis. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 870-878.	3.6	432

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19	Lysine 2-hydroxyisobutyrylation is a widely distributed active histone mark. <i>Nature Chemical Biology</i> , 2014, 10, 365-370.	3.9	368
20	m6A facilitates hippocampus-dependent learning and memory through YTHDF1. <i>Nature</i> , 2018, 563, 249-253.	13.7	354
21	Unique features of the m6A methylome in <i>Arabidopsis thaliana</i> . <i>Nature Communications</i> , 2014, 5, 5630.	5.8	342
22	High-resolution N ⁶ -methyladenosine (m ⁶ A) Map Using Photo-crosslinking-Assisted m ⁶ A Sequencing. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1587-1590.	7.2	319
23	Dynamics of Human and Viral RNA Methylation during Zika Virus Infection. <i>Cell Host and Microbe</i> , 2016, 20, 666-673.	5.1	318
24	Mettl3-/Mettl14-mediated mRNA N ⁶ -methyladenosine modulates murine spermatogenesis. <i>Cell Research</i> , 2017, 27, 1216-1230.	5.7	298
25	N ⁶ -Methyladenosine methyltransferase ZCCHC4 mediates ribosomal RNA methylation. <i>Nature Chemical Biology</i> , 2019, 15, 88-94.	3.9	258
26	ALKBH10B Is an RNA N ⁶ -Methyladenosine Demethylase Affecting <i>Arabidopsis</i> Floral Transition. <i>Plant Cell</i> , 2017, 29, 2995-3011.	3.1	235
27	The m ⁶ A Reader ECT2 Controls Trichome Morphology by Affecting mRNA Stability in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2018, 30, 968-985.	3.1	232
28	YTHDF2 reduction fuels inflammation and vascular abnormalization in hepatocellular carcinoma. <i>Molecular Cancer</i> , 2019, 18, 163.	7.9	230
29	N ⁶ -methyladenosine of HIV-1 RNA regulates viral infection and HIV-1 Gag protein expression. <i>ELife</i> , 2016, 5, .	2.8	227
30	Ythdf2-mediated m6A mRNA clearance modulates neural development in mice. <i>Genome Biology</i> , 2018, 19, 69.	3.8	216
31	Transfer RNA demethylase ALKBH3 promotes cancer progression via induction of tRNA-derived small RNAs. <i>Nucleic Acids Research</i> , 2019, 47, 2533-2545.	6.5	213
32	N ⁶ -methyladenosine RNA modification-mediated cellular metabolism rewiring inhibits viral replication. <i>Science</i> , 2019, 365, 1171-1176.	6.0	141
33	A metabolic labeling method detects m6A transcriptome-wide at single base resolution. <i>Nature Chemical Biology</i> , 2020, 16, 887-895.	3.9	133
34	Mettl14 Is Essential for Epitranscriptomic Regulation of Striatal Function and Learning. <i>Neuron</i> , 2018, 99, 283-292.e5.	3.8	110
35	The RNA-binding protein FMRP facilitates the nuclear export of N ⁶ -methyladenosine-containing mRNAs. <i>Journal of Biological Chemistry</i> , 2019, 294, 19889-19895.	1.6	84
36	Viral N ⁶ -methyladenosine upregulates replication and pathogenesis of human respiratory syncytial virus. <i>Nature Communications</i> , 2019, 10, 4595.	5.8	64

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37	Steady-State Hydrogen Peroxide Induces Glycolysis in <i>Staphylococcus aureus</i> and <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2014, 196, 2499-2513.	1.0	35
38	m6A demethylase ALKBH5 is required for antibacterial innate defense by intrinsic motivation of neutrophil migration. <i>Signal Transduction and Targeted Therapy</i> , 2022, 7, .	7.1	29
39	Direct-seq: A programmed gRNA scaffold for streamlined scRNA-seq in CRISPR screen. <i>Genome Biology</i> , 2020, 21, 136.	3.8	10
40	New Chromatin Run-On Reaction Enables Global Mapping of Active RNA Polymerase Locations in an Enrichment-free Manner. <i>ACS Chemical Biology</i> , 2022, 17, 768-775.	1.6	3
41	m6A facilitates hippocampus-dependent learning and memory through Ythdf1. <i>FASEB Journal</i> , 2018, 32, 787.6.	0.2	1
42	An in-library ligation strategy and its application in CRISPR/Cas9 screening of high-order gRNA combinations. <i>Nucleic Acids Research</i> , 2022, 50, 6575-6586.	6.5	1