Guan-Zheng Luo

List of Publications by Citations

53 papers	4,657 citations	29 h-index	54 g-index
54 ext. papers	6,355 ext. citations	15.4 avg, IF	5.37 L-index

#	Paper	IF	Citations
53	YTHDC1 mediates nuclear export of N-methyladenosine methylated mRNAs. *ELife*, **2017**, 6,	8.9	452
52	Ythdc2 is an N-methyladenosine binding protein that regulates mammalian spermatogenesis. *Cell Research*, **2017**, 27, 1115-1127	24.7	404
51	VIRMA mediates preferential mA mRNA methylation in 3ΨTR and near stop codon and associates with alternative polyadenylation. *Cell Discovery*, **2018**, 4, 10	22.3	332
50	N6-methyldeoxyadenosine marks active transcription start sites in Chlamydomonas. *Cell*, **2015**, 161, 879-892	56.2	316
49	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
48	Unique features of the m6A methylome in Arabidopsis thaliana. *Nature Communications*, **2014**, 5, 5630	17.4	239
47	RNA mA methylation regulates the epithelial mesenchymal transition of cancer cells and translation of Snail. *Nature Communications*, **2019**, 10, 2065	17.4	234
46	Activation of the imprinted Dlk1-Dio3 region correlates with pluripotency levels of mouse stem cells. *Journal of Biological Chemistry*, **2010**, 285, 19483-90	5.4	218
45	ALKBH1-Mediated tRNA Demethylation Regulates Translation. *Cell*, **2016**, 167, 816-828.e16	56.2	197
44	DNA N(6)-methyladenine: a new epigenetic mark in eukaryotes?. *Nature Reviews Molecular Cell Biology*, **2015**, 16, 705-10	48.7	157
43	Abundant DNA 6mA methylation during early embryogenesis of zebrafish and pig. *Nature Communications*, **2016**, 7, 13052	17.4	141
42	Transcriptome-wide Mapping of Internal N-Methylguanosine Methylome in Mammalian mRNA. *Molecular Cell*, **2019**, 74, 1304-1316.e8	17.6	133
41	Androgenetic haploid embryonic stem cells produce live transgenic mice. *Nature*, **2012**, 490, 407-11	50.4	129
40	Single-base mapping of mA by an antibody-independent method. *Science Advances*, **2019**, 5, eaax0250	14.3	128
39	Widespread occurrence of N6-methyladenosine in bacterial mRNA. *Nucleic Acids Research*, **2015**, 43, 6557-67	20.1	117
38	Transfer RNA demethylase ALKBH3 promotes cancer progression via induction of tRNA-derived small RNAs. *Nucleic Acids Research*, **2019**, 47, 2533-2545	20.1	108
37	Upregulation of a disintegrin and metalloproteinase with thrombospondin motifs-7 by miR-29 repression mediates vascular smooth muscle calcification. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2012**, 32, 2580-8	9.4	96

36	Dynamics of brassinosteroid response modulated by negative regulator LIC in rice. *PLoS Genetics*, **2012**, 8, e1002686	6	95
35	BC10, a DUF266-containing and Golgi-located type II membrane protein, is required for cell-wall biosynthesis in rice (Oryza sativa L.). *Plant Journal*, **2009**, 57, 446-62	6.9	88
34	Mir-24 regulates junctophilin-2 expression in cardiomyocytes. *Circulation Research*, **2012**, 111, 837-41	15.7	74
33	Genetic modification and screening in rat using haploid embryonic stem cells. *Cell Stem Cell*, **2014**, 14, 404-14	18	71
32	In vivo suppression of microRNA-24 prevents the transition toward decompensated hypertrophy in aortic-constricted mice. *Circulation Research*, **2013**, 112, 601-5	15.7	71
31	Characterization of eukaryotic DNA N(6)-methyladenine by a highly sensitive restriction enzyme-assisted sequencing. *Nature Communications*, **2016**, 7, 11301	17.4	62
30	DNA N-methyladenine in metazoans: functional epigenetic mark or bystander?. *Nature Structural and Molecular Biology*, **2017**, 24, 503-506	17.6	54
29	Mapping and characterizing N6-methyladenine in eukaryotic genomes using single-molecule real-time sequencing. *Genome Research*, **2018**, 28, 1067-1078	9.7	48
28	The RNA mA reader YTHDC1 silences retrotransposons and guards ES cell identity. *Nature*, **2021**, 591, 322-326	50.4	45
27	miR-9 and miR-140-5p target FoxP2 and are regulated as a function of the social context of singing behavior in zebra finches. *Journal of Neuroscience*, **2013**, 33, 16510-21	6.6	41
26	Keth-seq for transcriptome-wide RNA structure mapping. *Nature Chemical Biology*, **2020**, 16, 489-492	11.7	31
25	Parthenogenetic haploid embryonic stem cells produce fertile mice. *Cell Research*, **2013**, 23, 1330-3	24.7	28
24	High-Resolution N6-Methyladenosine (m6A) Map Using Photo-Crosslinking-Assisted m6A Sequencing. *Angewandte Chemie*, **2015**, 127, 1607-1610	3.6	26
23	N-methyldeoxyadenosine directs nucleosome positioning in Tetrahymena DNA. *Genome Biology*, **2018**, 19, 200	18.3	26
22	Structure and mechanism of the essential two-component signal-transduction system WalKR in Staphylococcus aureus. *Nature Communications*, **2016**, 7, 11000	17.4	21
21	METTL14 is essential for β-cell survival and insulin secretion. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2019**, 1865, 2138-2148	6.9	19
20	Transcriptome-wide reprogramming of N-methyladenosine modification by the mouse microbiome. *Cell Research*, **2019**, 29, 167-170	24.7	19
19	High-Resolution Mapping of N⁶-Methyladenosine in Transcriptome and Genome Using a Photo-Crosslinking-Assisted Strategy. *Methods in Enzymology*, **2015**, 560, 161-85	1.7	16

18	Durable pluripotency and haploidy in epiblast stem cells derived from haploid embryonic stem cells in vitro. *Journal of Molecular Cell Biology*, **2015**, 7, 326-37	6.3	16
17	Ubiquitously expressed genes participate in cell-specific functions via alternative promoter usage. *EMBO Reports*, **2016**, 17, 1304-13	6.5	14
16	Peroxisome Elevation Induces Stem Cell Differentiation and Intestinal Epithelial Repair. *Developmental Cell*, **2020**, 53, 169-184.e11	10.2	11
15	Acute Deletion of METTL14 in Cells of Adult Mice Results in Glucose Intolerance. *Endocrinology*, **2019**, 160, 2388-2394	4.8	10
14	Mapping and editing of nucleic acid modifications. *Computational and Structural Biotechnology Journal*, **2020**, 18, 661-667	6.8	7
13	Three-dimensional culture may promote cell reprogramming. *Organogenesis*, **2013**, 9, 118-20	1.7	7
12	Targeted RNA N -Methyladenosine Demethylation Controls Cell Fate Transition in Human Pluripotent Stem Cells. *Advanced Science*, **2021**, 8, e2003902	13.6	7
11	MicroRNA-323-3p regulates the activity of polycomb repressive complex 2 (PRC2) via targeting the mRNA of embryonic ectoderm development (Eed) gene in mouse embryonic stem cells. *Journal of Biological Chemistry*, **2013**, 288, 23659-65	5.4	6
10	Author response: YTHDC1 mediates nuclear export of N6-methyladenosine methylated mRNAs **2017**,		6
9	RNA mA Modification Functions in Larval Development and Caste Differentiation in Honeybee (Apis mellifera). *Cell Reports*, **2021**, 34, 108580	10.6	5
8	Crystal structure of the yeast heterodimeric ADAT2/3 deaminase. *BMC Biology*, **2020**, 18, 189	7.3	4
7	Long noncoding RNA sponges mmu-miR-139-5p to modulate functions in mouse ESCs and embryos. *RNA Biology*, **2021**, 18, 875-887	4.8	4
6	Systematic calibration of epitranscriptomic maps using a synthetic modification-free RNA library. *Nature Methods*, **2021**, 18, 1213-1222	21.6	4
5	Identification of a small molecule 1,4-bis-[4-(3-phenoxy-propoxy)-but-2-ynyl]-piperazine as a novel inhibitor of the transcription factor p53. *Acta Pharmacologica Sinica*, **2013**, 34, 805-10	8	3
4	The Impact of Microbiome and Microbiota-Derived Sodium Butyrate on Transcriptome and Metabolome Revealed by Multi-Omics Analysis. *Metabolites*, **2021**, 11,	5.6	3
3	Mapping single-nucleotide mA by mA-REF-seq. *Methods*, **2021**,	4.6	1
2	Targeted genetic screening in bacteria with a Cas12k-guided transposase. *Cell Reports*, **2021**, 36, 109635	10.6	1
1	Establishment of transposase-assisted low-input mA sequencing technique. *Journal of Genetics and Genomics*, **2021**, 48, 1036-1039	4	1