Bin Shen

List of Publications by Citations

91	6,930	36	83
papers	citations	h-index	g-index
104	9,146	12.6	5.68
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
91	Generation of gene-modified cynomolgus monkey via Cas9/RNA-mediated gene targeting in one-cell embryos. *Cell*, **2014**, 156, 836-43	56.2	764
90	Efficient genome modification by CRISPR-Cas9 nickase with minimal off-target effects. *Nature Methods*, **2014**, 11, 399-402	21.6	575
89	YTHDC1 mediates nuclear export of N-methyladenosine methylated mRNAs. *ELife*, **2017**, 6,	8.9	452
88	Generation of gene-modified mice via Cas9/RNA-mediated gene targeting. *Cell Research*, **2013**, 23, 720-3	24.7	430
87	Ythdc2 is an N-methyladenosine binding protein that regulates mammalian spermatogenesis. *Cell Research*, **2017**, 27, 1115-1127	24.7	404
86	Anti-tumour immunity controlled through mRNA mA methylation and YTHDF1 in dendritic cells. *Nature*, **2019**, 566, 270-274	50.4	358
85	VIRMA mediates preferential mA mRNA methylation in 3Ψ‌UTR and near stop codon and associates with alternative polyadenylation. *Cell Discovery*, **2018**, 4, 10	22.3	332
84	sgRNAcas9: a software package for designing CRISPR sgRNA and evaluating potential off-target cleavage sites. *PLoS ONE*, **2014**, 9, e100448	3.7	218
83	mA facilitates hippocampus-dependent learning and memory through YTHDF1. *Nature*, **2018**, 563, 249-253	50.4	208
82	Opposing Roles for the lncRNA Haunt and Its Genomic Locus in Regulating HOXA Gene Activation during Embryonic Stem Cell Differentiation. *Cell Stem Cell*, **2015**, 16, 504-16	18	198
81	CRISPR-Cas9 mediated efficient PD-1 disruption on human primary T cells from cancer patients. *Scientific Reports*, **2016**, 6, 20070	4.9	188
80	-methyladenosine of chromosome-associated regulatory RNA regulates chromatin state and transcription. *Science*, **2020**, 367, 580-586	33.3	185
79	Epitranscriptomic mA Regulation of Axon Regeneration in the Adult Mammalian Nervous System. *Neuron*, **2018**, 97, 313-325.e6	13.9	171
78	Generating rats with conditional alleles using CRISPR/Cas9. *Cell Research*, **2014**, 24, 122-5	24.7	149
77	Off-target mutations are rare in Cas9-modified mice. *Nature Methods*, **2015**, 12, 479	21.6	149
76	Suppression of mA reader Ythdf2 promotes hematopoietic stem cell expansion. *Cell Research*, **2018** , 28, 904-917	24.7	124
75	Efficient in vivo deletion of a large imprinted lncRNA by CRISPR/Cas9. *RNA Biology*, **2014**, 11, 829-35	4.8	121

74	mA in mRNA coding regions promotes translation via the RNA helicase-containing YTHDC2. *Nature Communications*, **2019**, 10, 5332	17.4	119
73	YTHDF2 reduction fuels inflammation and vascular abnormalization in hepatocellular carcinoma. *Molecular Cancer*, **2019**, 18, 163	42.1	113
72	Transfer RNA demethylase ALKBH3 promotes cancer progression via induction of tRNA-derived small RNAs. *Nucleic Acids Research*, **2019**, 47, 2533-2545	20.1	108
71	One-step generation of different immunodeficient mice with multiple gene modifications by CRISPR/Cas9 mediated genome engineering. *International Journal of Biochemistry and Cell Biology*, **2014**, 46, 49-55	5.6	98
70	Dual sgRNAs facilitate CRISPR/Cas9-mediated mouse genome targeting. *FEBS Journal*, **2014**, 281, 1717-25	5.7	97
69	Efficient generation of gene-modified pigs via injection of zygote with Cas9/sgRNA. *Scientific Reports*, **2015**, 5, 8256	4.9	92
68	VEGFR-3 ligand-binding and kinase activity are required for lymphangiogenesis but not for angiogenesis. *Cell Research*, **2010**, 20, 1319-31	24.7	91
67	Systematic identification of genes with a cancer-testis expression pattern in 19 cancer types. *Nature Communications*, **2016**, 7, 10499	17.4	80
66	Heritable multiplex genetic engineering in rats using CRISPR/Cas9. *PLoS ONE*, **2014**, 9, e89413	3.7	77
65	Akt/Protein kinase B is required for lymphatic network formation, remodeling, and valve development. *American Journal of Pathology*, **2010**, 177, 2124-33	5.8	77
64	CRISPR/Cas9-mediated Dax1 knockout in the monkey recapitulates human AHC-HH. *Human Molecular Genetics*, **2015**, 24, 7255-64	5.6	64
63	Loss of YTHDF2-mediated mA-dependent mRNA clearance facilitates hematopoietic stem cell regeneration. *Cell Research*, **2018**, 28, 1035-1038	24.7	56
62	TCTE1 is a conserved component of the dynein regulatory complex and is required for motility and metabolism in mouse spermatozoa. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E5370-E5378	11.5	47
61	A cancer-testis non-coding RNA LIN28B-AS1 activates driver gene LIN28B by interacting with IGF2BP1 in lung adenocarcinoma. *Oncogene*, **2019**, 38, 1611-1624	9.2	45
60	An essential role for PNLDC1 in piRNA 3Vend trimming and male fertility in mice. *Cell Research*, **2017**, 27, 1392-1396	24.7	44
59	The Heat-Induced Reversible Change in the Blood-Testis Barrier (BTB) Is Regulated by the Androgen Receptor (AR) via the Partitioning-Defective Protein (Par) Polarity Complex in the Mouse. *Biology of Reproduction*, **2013**, 89, 12	3.9	42
58	Angiopoietin receptor Tie2 is required for vein specification and maintenance via regulating COUP-TFII. *ELife*, **2016**, 5,	8.9	40
57	Genetic dissection of tie pathway in mouse lymphatic maturation and valve development. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2014**, 34, 1221-30	9.4	36

56	APOBEC3 induces mutations during repair of CRISPR-Cas9-generated DNA breaks. *Nature Structural and Molecular Biology*, **2018**, 25, 45-52	17.6	35
55	The N6-methyladenosine RNA-binding protein YTHDF1 modulates the translation of TRAF6 to mediate the intestinal immune response. *Nucleic Acids Research*, **2021**, 49, 5537-5552	20.1	34
54	Oocyte competence is maintained by mA methyltransferase KIAA1429-mediated RNA metabolism during mouse follicular development. *Cell Death and Differentiation*, **2020**, 27, 2468-2483	12.7	25
53	Sox30 initiates transcription of haploid genes during late meiosis and spermiogenesis in mouse testes. *Development (Cambridge)*, **2018**, 145,	6.6	23
52	Germline acquisition of Cas9/RNA-mediated gene modifications in monkeys. *Cell Research*, **2015**, 25, 262-5	24.7	23
51	Nuclear mA reader YTHDC1 regulates the scaffold function of LINE1 RNA in mouse ESCs and early embryos. *Protein and Cell*, **2021**, 12, 455-474	7.2	21
50	Gene knockout of Zmym3 in mice arrests spermatogenesis at meiotic metaphase with defects in spindle assembly checkpoint. *Cell Death and Disease*, **2017**, 8, e2910	9.8	19
49	The post-PAM interaction of RNA-guided spCas9 with DNA dictates its target binding and dissociation. *Science Advances*, **2019**, 5, eaaw9807	14.3	15
48	Efficient knockin mouse generation by ssDNA oligonucleotides and zinc-finger nuclease assisted homologous recombination in zygotes. *PLoS ONE*, **2013**, 8, e77696	3.7	15
47	The 18S rRNA m A methyltransferase METTL5 promotes mouse embryonic stem cell differentiation. *EMBO Reports*, **2020**, 21, e49863	6.5	15
46	LncRNA MEG3 negatively modified osteosarcoma development through regulation of miR-361-5p and FoxM1. *Journal of Cellular Physiology*, **2019**, 234, 13464-13480	7	15
45	The inherited variations of a p53-responsive enhancer in 13q12.12 confer lung cancer risk by attenuating TNFRSF19 expression. *Genome Biology*, **2019**, 20, 103	18.3	14
44	Precision modeling of mitochondrial diseases in zebrafish via DdCBE-mediated mtDNA base editing. *Cell Discovery*, **2021**, 7, 78	22.3	14
43	Expression of the RNA methyltransferase Nsun5 is essential for developing cerebral cortex. *Molecular Brain*, **2019**, 12, 74	4.5	13
42	Effects of perinatal dioxin exposure on development of children: a 3-year follow-up study of China cohort. *Environmental Science and Pollution Research*, **2019**, 26, 20780-20786	5.1	13
41	Nuclear Exosome Targeting Complex Core Factor Zcchc8 Regulates the Degradation of LINE1 RNA in Early Embryos and Embryonic Stem Cells. *Cell Reports*, **2019**, 29, 2461-2472.e6	10.6	13
40	YTHDF1 Regulates Pulmonary Hypertension through Translational Control of MAGED1. *American Journal of Respiratory and Critical Care Medicine*, **2021**, 203, 1158-1172	10.2	12
39	A lipidomics study reveals hepatic lipid signatures associating with deficiency of the LDL receptor in a rat model. *Biology Open*, **2016**, 5, 979-86	2.2	12

38	Multivariate analysis of airway obstruction and reintubation after anterior cervical surgery: A Retrospective Cohort Study of 774 patients. *International Journal of Surgery*, **2017**, 41, 28-33	7.5	11
37	Cognitive deficits in mice lacking Nsun5, a cytosine-5 RNA methyltransferase, with impairment of oligodendrocyte precursor cells. *Glia*, **2019**, 67, 688-702	9	11
36	Generation of fertile offspring from Kit(w)/Kit(wv) mice through differentiation of gene corrected nuclear transfer embryonic stem cells. *Cell Research*, **2015**, 25, 851-63	24.7	9
35	Transforaminal endoscopic system technique for discogenic low back pain: A prospective Cohort study. *International Journal of Surgery*, **2016**, 35, 134-138	7.5	9
34	A Critical Role of Nuclear m6A Reader YTHDC1 in Leukemogenesis by Regulating MCM Complex-Mediated DNA Replication. *Blood*, **2021**,	2.2	9
33	Agenesis and Hypomyelination of Corpus Callosum in Mice Lacking Nsun5, an RNA Methyltransferase. *Cells*, **2019**, 8,	7.9	8
32	Efficient targeting of FATS at a common fragile site in mice through TALEN-mediated double-hit genome modification. *Biotechnology Letters*, **2014**, 36, 471-9	3	8
31	Rational cyclization-based minimization of entropy penalty upon the binding of Nrf2-derived linear peptides to Keap1: A new strategy to improve therapeutic peptide activity against sepsis. *Biophysical Chemistry*, **2019**, 244, 22-28	3.5	8
30	Precision modeling of mitochondrial disease in rats via DdCBE-mediated mtDNA editing. *Cell Discovery*, **2021**, 7, 95	22.3	7
29	Prioritized cervical or lumbar surgery for coexisting cervical and lumbar stenosis: Prognostic analysis of 222 case. *International Journal of Surgery*, **2017**, 44, 344-349	7.5	6
28	Author response: YTHDC1 mediates nuclear export of N6-methyladenosine methylated mRNAs **2017**,		6
27	Depletion of m A reader protein YTHDC1 induces dilated cardiomyopathy by abnormal splicing of Titin. *Journal of Cellular and Molecular Medicine*, **2021**, 25, 10879-10891	5.6	6
26	Comparison of different surgical approaches of functional endoscopic sinus surgery on patients with chronic rhinosinusitis. *International Journal of Clinical and Experimental Medicine*, **2014**, 7, 1585-91		5
25	Intracellular XBP1-IL-24 axis dismantles cytotoxic unfolded protein response in the liver. *Cell Death and Disease*, **2020**, 11, 17	9.8	5
24	USP15 promotes the apoptosis of degenerative nucleus pulposus cells by suppressing the PI3K/AKT signalling pathway. *Journal of Cellular and Molecular Medicine*, **2020**, 24, 13813-13823	5.6	5
23	gene mutation by pair truncated sgRNA/Cas9-D10A in cynomolgus monkeys. *Zoological Research*, **2021**, 42, 469-477	3.4	5
22	Combined Effects of Single Nucleotide Polymorphisms (SNPs) within C-reactive Protein (CRP) and Environmental Parameters on Risk and Prognosis for Diabetic Foot Osteomyelitis Patients. *Experimental and Clinical Endocrinology and Diabetes*, **2020**, 128, 528-539	2.3	4
21	Human biodistribution and radiation dosimetry of [F]DASA-23, a PET probe targeting pyruvate kinase M2. *European Journal of Nuclear Medicine and Molecular Imaging*, **2020**, 47, 2123-2130	8.8	4

20	Functional annotation of cis-regulatory elements in human cells by dCas9/sgRNA. *Cell Research*, **2015**, 25, 877-80	24.7	4
19	Dynamics of Staphylococcus aureus Cas9 in DNA target Association and Dissociation. *EMBO Reports* , **2020**, 21, e50184	6.5	4
18	DdCBE mediates efficient and inheritable modifications in mouse mitochondrial genome.. *Molecular Therapy - Nucleic Acids*, **2022**, 27, 73-80	10.7	4
17	Single-cell RNA-Seq reveals a highly coordinated transcriptional program in mouse germ cells during primordial follicle formation. *Aging Cell*, **2021**, 20, e13424	9.9	4
16	A [C] CO dispensing system for rapid screening of carbonylation reactions. *Journal of Labelled Compounds and Radiopharmaceuticals*, **2018**, 61, 1110-1114	1.9	4
15	Lumbar Spinal Tuberculosis Presenting as Abdominal Pain: Case Report. *The Surgery Journal*, **2015**, 1, e44-e46	0.9	2
14	DdCBE-mediated mitochondrial base editing in human 3PN embryos.. *Cell Discovery*, **2022**, 8, 8	22.3	2
13	Application of molybdenum target X-ray photography in imaging analysis of caudal intervertebral disc degeneration in rats. *World Journal of Clinical Cases*, **2020**, 8, 3431-3439	1.6	2
12	m A reader protein YTHDF2 regulates spermatogenesis by timely clearance of phase-specific transcripts. *Cell Proliferation*, **2021**, e13164	7.9	2
11	Preoperative vitamin D status and its effects on short-term clinical outcomes in lumbar spine surgery. *Journal of Orthopaedic Science*, **2020**, 25, 787-792	1.6	2
10	Mutations in RNA Methyltransferase Gene Confer High Risk of Outflow Tract Malformation. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 623394	5.7	2
9	Evaluation of carbon-11 labeled 5-(1-methyl-1H-pyrazol-4-yl)-N-(2-methyl-5-(3-(trifluoromethyl)benzamido)phenyl)nicotinamide as PET tracer for imaging of CSF-1R expression in the brain. *Bioorganic and Medicinal Chemistry*, **2021**, 42, 116245	3.4	2
8	BLZ945 derivatives for PET imaging of colony stimulating factor-1 receptors in the brain. *Nuclear Medicine and Biology*, **2021**, 100-101, 44-51	2.1	2
7	UdgX-Mediated Uracil Sequencing at Single-Nucleotide Resolution.. *Journal of the American Chemical Society*, **2022**,	16.4	1
6	Sigma-1 Receptor Changes Observed in Chronic Pelvic Pain Patients: A Pilot PET/MRI Study.. *Frontiers in Pain Research*, **2021**, 2, 711748	1.4	1
5	Preparing Platelet-Rich Plasma with Whole Blood Harvested Intraoperatively During Spinal Fusion. *Medical Science Monitor*, **2017**, 23, 3578-3584	3.2	1
4	Nuclear m6A reader Ythdc1 regulates the scaffold function of LINE1 in mouse ESCs		1
3	Extensive humoral immune response to AAVs and Cas proteins in nonhuman primates. *Science Bulletin*, **2021**, 66, 2061-2064	10.6	1

2	RNA 5-methylcytosine regulates YBX2-dependent liquid-liquid phase separation. *Fundamental Research*, **2022**, 2, 48-55		0
1	Efficient DNA interrogation of SpCas9 governed by its electrostatic interaction with DNA beyond the PAM and protospacer. *Nucleic Acids Research*, **2021**, 49, 12433-12444	20.1	0