Bin Shen

List of Publications by Year in descending order

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70961 35952 10,897 93 41 97 citations h-index g-index papers 104 104 104 12437 all docs citing authors docs citations times ranked

#	Article	IF	CITATIONS
1	Generation of Gene-Modified Cynomolgus Monkey via Cas9/RNA-Mediated Gene Targeting in One-Cell Embryos. Cell, 2014, 156, 836-843.	13.5	930
2	YTHDC1 mediates nuclear export of N6-methyladenosine methylated mRNAs. ELife, 2017, 6, .	2.8	815
3	Efficient genome modification by CRISPR-Cas9 nickase with minimal off-target effects. Nature Methods, 2014, 11, 399-402.	9.0	716
4	Ythdc2 is an N6-methyladenosine binding protein that regulates mammalian spermatogenesis. Cell Research, 2017, 27, 1115-1127.	5.7	696
5	Anti-tumour immunity controlled through mRNA m6A methylation and YTHDF1 in dendritic cells. Nature, 2019, 566, 270-274.	13.7	681
6	VIRMA mediates preferential m6A mRNA methylation in $3\hat{a} \in ^2$ UTR and near stop codon and associates with alternative polyadenylation. Cell Discovery, 2018, 4, 10.	3.1	643
7	Generation of gene-modified mice via Cas9/RNA-mediated gene targeting. Cell Research, 2013, 23, 720-723.	5.7	504
8	<i>N</i> ⁶ -methyladenosine of chromosome-associated regulatory RNA regulates chromatin state and transcription. Science, 2020, 367, 580-586.	6.0	406
9	m6A facilitates hippocampus-dependent learning and memory through YTHDF1. Nature, 2018, 563, 249-253.	13.7	354
10	sgRNAcas9: A Software Package for Designing CRISPR sgRNA and Evaluating Potential Off-Target Cleavage Sites. PLoS ONE, 2014, 9, e100448.	1.1	327
11	Epitranscriptomic m6A Regulation of Axon Regeneration in the Adult Mammalian Nervous System. Neuron, 2018, 97, 313-325.e6.	3.8	292
12	m6A in mRNA coding regions promotes translation via the RNA helicase-containing YTHDC2. Nature Communications, 2019, 10, 5332.	5.8	268
13	Opposing Roles for the IncRNA Haunt and Its Genomic Locus in Regulating HOXA Gene Activation during Embryonic Stem Cell Differentiation. Cell Stem Cell, 2015, 16, 504-516.	5.2	247
14	CRISPR-Cas9 mediated efficient PD-1 disruption on human primary T cells from cancer patients. Scientific Reports, 2016, 6, 20070.	1.6	237
15	YTHDF2 reduction fuels inflammation and vascular abnormalization in hepatocellular carcinoma. Molecular Cancer, 2019, 18, 163.	7.9	230
16	Transfer RNA demethylase ALKBH3 promotes cancer progression via induction of tRNA-derived small RNAs. Nucleic Acids Research, 2019, 47, 2533-2545.	6.5	213
17	Suppression of m6A reader Ythdf2 promotes hematopoietic stem cell expansion. Cell Research, 2018, 28, 904-917.	5.7	203
18	Off-target mutations are rare in Cas9-modified mice. Nature Methods, 2015, 12, 479-479.	9.0	171

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19	Generating rats with conditional alleles using CRISPR/Cas9. Cell Research, 2014, 24, 122-125.	5.7	169
20	Efficient in vivo deletion of a large imprinted lncRNA by CRISPR/Cas9. RNA Biology, 2014, 11, 829-835.	1.5	148
21	Systematic identification of genes with a cancer-testis expression pattern in 19 cancer types. Nature Communications, 2016, 7, 10499.	5.8	124
22	VEGFR-3 ligand-binding and kinase activity are required for lymphangiogenesis but not for angiogenesis. Cell Research, 2010, 20, 1319-1331.	5.7	123
23	Dual sgRNAs facilitate CRISPR/Cas9â€mediated mouse genome targeting. FEBS Journal, 2014, 281, 1717-1725.	2.2	122
24	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.	1.2	110
25	Efficient generation of gene-modified pigs via injection of zygote with Cas9/sgRNA. Scientific Reports, 2015, 5, 8256.	1.6	104
26	Akt/Protein Kinase B Is Required for Lymphatic Network Formation, Remodeling, and Valve Development. American Journal of Pathology, 2010, 177, 2124-2133.	1.9	95
27	Loss of YTHDF2-mediated m6A-dependent mRNA clearance facilitates hematopoietic stem cell regeneration. Cell Research, 2018, 28, 1035-1038.	5.7	95
28	Heritable Multiplex Genetic Engineering in Rats Using CRISPR/Cas9. PLoS ONE, 2014, 9, e89413.	1.1	90
29	Nuclear m6A reader YTHDC1 regulates the scaffold function of LINE1 RNA in mouse ESCs and early embryos. Protein and Cell, 2021, 12, 455-474.	4.8	84
30	A critical role of nuclear m6A reader YTHDC1 in leukemogenesis by regulating MCM complex–mediated DNA replication. Blood, 2021, 138, 2838-2852.	0.6	83
31	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.	3.3	74
32	The $\langle i \rangle N \langle i \rangle \langle scp \rangle 6 \langle scp \rangle$ -methyladenosine RNA-binding protein YTHDF1 modulates the translation of $\langle i \rangle TRAF6 \langle i \rangle$ to mediate the intestinal immune response. Nucleic Acids Research, 2021, 49, 5537-5552.	6.5	74
33	An essential role for PNLDC1 in piRNA 3′ end trimming and male fertility in mice. Cell Research, 2017, 27, 1392-1396.	5.7	73
34	CRISPR/Cas9-mediated <i>Dax1</i> knockout in the monkey recapitulates human AHC-HH. Human Molecular Genetics, 2015, 24, 7255-7264.	1.4	71
35	Oocyte competence is maintained by m6A methyltransferase KIAA1429-mediated RNA metabolism during mouse follicular development. Cell Death and Differentiation, 2020, 27, 2468-2483.	5.0	70
36	Generation of <i>e<scp>GFP</scp></i> and <i>Cre</i> knockin rats by <scp>CRISPR</scp> /Cas9. FEBS Journal, 2014, 281, 3779-3790.	2.2	66

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37	YTHDF1 Regulates Pulmonary Hypertension through Translational Control of MAGED1. American Journal of Respiratory and Critical Care Medicine, 2021, 203, 1158-1172.	2.5	62
38	A cancer-testis non-coding RNA LIN28B-AS1 activates driver gene LIN28B by interacting with IGF2BP1 in lung adenocarcinoma. Oncogene, 2019, 38, 1611-1624.	2.6	61
39	Angiopoietin receptor Tie2 is required for vein specification and maintenance via regulating COUP-TFII. ELife, 2016, 5, .	2.8	59
40	Genetic Dissection of Tie Pathway in Mouse Lymphatic Maturation and Valve Development. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 1221-1230.	1.1	53
41	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 Mouse1. Biology of Reproduction, 2013, 89, 12.	1.2	49
42	APOBEC3 induces mutations during repair of CRISPRâ€"Cas9-generated DNA breaks. Nature Structural and Molecular Biology, 2018, 25, 45-52.	3.6	42
43	Precision modeling of mitochondrial diseases in zebrafish via DdCBE-mediated mtDNA base editing. Cell Discovery, 2021, 7, 78.	3.1	42
44	The 18S <scp>rRNA</scp> m ⁶ A methyltransferase <scp>METTL</scp> 5 promotes mouse embryonic stem cell differentiation. EMBO Reports, 2020, 21, e49863.	2.0	42
45	DdCBE mediates efficient and inheritable modifications in mouse mitochondrial genome. Molecular Therapy - Nucleic Acids, 2022, 27, 73-80.	2.3	38
46	Sox30 initiates transcription of haploid genes during late meiosis and spermiogenesis in mouse testes. Development (Cambridge), 2018, 145, .	1.2	36
47	Germline acquisition of Cas9/RNA-mediated gene modifications in monkeys. Cell Research, 2015, 25, 262-265.	5.7	32
48	Precision modeling of mitochondrial disease in rats via DdCBE-mediated mtDNA editing. Cell Discovery, 2021, 7, 95.	3.1	30
49	The post-PAM interaction of RNA-guided spCas9 with DNA dictates its target binding and dissociation. Science Advances, 2019, 5, eaaw9807.	4.7	29
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-e2910.	2.7	28
51	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.	2.9	28
52	LncRNA MEG3 negatively modified osteosarcoma development through regulation of miRâ€361â€5p and FoxM1. Journal of Cellular Physiology, 2019, 234, 13464-13480.	2.0	28
53	N6-methyladenosine regulates maternal RNA maintenance in oocytes and timely RNA decay during mouse maternal-to-zygotic transition. Nature Cell Biology, 2022, 24, 917-927.	4.6	28
54	The inherited variations of a p53-responsive enhancer in 13q12.12 confer lung cancer risk by attenuating TNFRSF19 expression. Genome Biology, 2019, 20, 103.	3.8	27

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55	Expression of the RNA methyltransferase Nsun5 is essential for developing cerebral cortex. Molecular Brain, 2019, 12, 74.	1.3	23
56	Depletion of m ⁶ A reader protein YTHDC1 induces dilated cardiomyopathy by abnormal splicing of <i>Titin</i> . Journal of Cellular and Molecular Medicine, 2021, 25, 10879-10891.	1.6	21
57	DdCBE-mediated mitochondrial base editing in human 3PN embryos. Cell Discovery, 2022, 8, 8.	3.1	21
58	Cognitive deficits in mice lacking Nsun5, a cytosineâ€5 RNA methyltransferase, with impairment of oligodendrocyte precursor cells. Glia, 2019, 67, 688-702.	2.5	20
59	Dynamics of <i>Staphylococcus aureus</i> Cas9 in <scp>DNA</scp> target Association and Dissociation. EMBO Reports, 2020, 21, e50184.	2.0	20
60	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.	1.1	18
61	m ⁶ A reader protein YTHDF2 regulates spermatogenesis by timely clearance of phaseâ€specific transcripts. Cell Proliferation, 2022, 55, e13164.	2.4	18
62	Generation of fertile offspring from Kitw/Kitwv mice through differentiation of gene corrected nuclear transfer embryonic stem cells. Cell Research, 2015, 25, 851-863.	5.7	17
63	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.	2.7	17
64	Efficient Knockin Mouse Generation by ssDNA Oligonucleotides and Zinc-Finger Nuclease Assisted Homologous Recombination in Zygotes. PLoS ONE, 2013, 8, e77696.	1.1	15
65	A lipidomics study reveals hepatic lipid signatures associating with deficiency of the LDL receptor in a rat model. Biology Open, 2016, 5, 979-986.	0.6	15
66	Agenesis and Hypomyelination of Corpus Callosum in Mice Lacking Nsun5, an RNA Methyltransferase. Cells, 2019, 8, 552.	1.8	15
67	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.	1.5	15
68	Singleâ€cell RNAâ€Seq reveals a highly coordinated transcriptional program in mouse germ cells during primordial follicle formation. Aging Cell, 2021, 20, e13424.	3.0	15
69	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.	1.6	14
70	Transforaminal endoscopic system technique for discogenic low back pain: A prospective Cohort study. International Journal of Surgery, 2016, 35, 134-138.	1.1	13
71	Preoperative vitamin D status and its effects on short-term clinical outcomes in lumbar spine surgery. Journal of Orthopaedic Science, 2020, 25, 787-792.	0.5	12
72	<i>PINK1</i> gene mutation by pair truncated sgRNA/Cas9-D10A in cynomolgus monkeys. Zoological Research, 2021, 42, 469-477.	0.9	12

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73	Prioritized cervical or lumbar surgery for coexisting cervical and lumbar stenosis: Prognostic analysis of 222 case. International Journal of Surgery, 2017, 44, 344-349.	1.1	10
74	Human biodistribution and radiation dosimetry of [18F]DASA-23, a PET probe targeting pyruvate kinase M2. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 2123-2130.	3.3	10
75	BLZ945 derivatives for PET imaging of colony stimulating factor-1 receptors in the brain. Nuclear Medicine and Biology, 2021, 100-101, 44-51.	0.3	10
76	Intracellular XBP1-IL-24 axis dismantles cytotoxic unfolded protein response in the liver. Cell Death and Disease, 2020, 11, 17.	2.7	9
77	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.	0.6	9
78	Efficient DNA interrogation of SpCas9 governed by its electrostatic interaction with DNA beyond the PAM and protospacer. Nucleic Acids Research, 2021, 49, 12433-12444.	6.5	9
79	Efficient targeting of FATS at a common fragile site in mice through TALEN-mediated double-hit genome modification. Biotechnology Letters, 2014, 36, 471-479.	1.1	8
80	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.	1.4	8
81	UdgX-Mediated Uracil Sequencing at Single-Nucleotide Resolution. Journal of the American Chemical Society, 2022, 144, 1323-1331.	6.6	8
82	RNA 5-methylcytosine regulates YBX2-dependent liquid-liquid phase separation. Fundamental Research, 2022, 2, 48-55.	1.6	8
83	Mutations in RNA Methyltransferase Gene NSUN5 Confer High Risk of Outflow Tract Malformation. Frontiers in Cell and Developmental Biology, 2021, 9, 623394.	1.8	6
84	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.	1.3	6
85	Functional annotation of cis-regulatory elements in human cells by dCas9/sgRNA. Cell Research, 2015, 25, 877-880.	5.7	5
86	A [¹¹ C] CO dispensing system for rapid screening of carbonylation reactions. Journal of Labelled Compounds and Radiopharmaceuticals, 2018, 61, 1110-1114.	0.5	4
87	Lumbar Spinal Tuberculosis Presenting as Abdominal Pain: Case Report. The Surgery Journal, 2015, 01, e44-e46.	0.3	3
88	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.	0.3	3
89	Sigma-1 Receptor Changes Observed in Chronic Pelvic Pain Patients: A Pilot PET/MRI Study. Frontiers in Pain Research, 2021, 2, 711748.	0.9	3
90	Extensive humoral immune response to AAVs and Cas proteins in nonhuman primates. Science Bulletin, 2021, 66, 2061-2064.	4.3	1

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91	Preparing Platelet-Rich Plasma with Whole Blood Harvested Intraoperatively During Spinal Fusion. Medical Science Monitor, 2017, 23, 3578-3584.	0.5	1
92	The enhancer rare germline variation rs548071605 contributes to lung cancer development. Human Mutation, 2022, 43, 200-214.	1.1	1
93	Abstract 4319: Hypoxia regulates m6A-reader YTHDF2 to fuel cancer-promoting inflammation in hepatocellular carcinoma. , 2019, , .		0