

Bin Shen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91
papers

6,930
citations

36
h-index

83
g-index

104
ext. papers

9,146
ext. citations

12.6
avg, IF

5.68
L-index

#	Paper	IF	Citations
91	UdgX-Mediated Uracil Sequencing at Single-Nucleotide Resolution.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	1
90	RNA 5-methylcytosine regulates YBX2-dependent liquid-liquid phase separation. <i>Fundamental Research</i> , 2022 , 2, 48-55		0
89	DdCBE-mediated mitochondrial base editing in human 3PN embryos.. <i>Cell Discovery</i> , 2022 , 8, 8	22.3	2
88	DdCBE mediates efficient and inheritable modifications in mouse mitochondrial genome.. <i>Molecular Therapy - Nucleic Acids</i> , 2022 , 27, 73-80	10.7	4
87	Sigma-1 Receptor Changes Observed in Chronic Pelvic Pain Patients: A Pilot PET/MRI Study.. <i>Frontiers in Pain Research</i> , 2021 , 2, 711748	1.4	1
86	m A reader protein YTHDF2 regulates spermatogenesis by timely clearance of phase-specific transcripts. <i>Cell Proliferation</i> , 2021 , e13164	7.9	2
85	Efficient DNA interrogation of SpCas9 governed by its electrostatic interaction with DNA beyond the PAM and protospacer. <i>Nucleic Acids Research</i> , 2021 , 49, 12433-12444	20.1	0
84	Precision modeling of mitochondrial disease in rats via DdCBE-mediated mtDNA editing. <i>Cell Discovery</i> , 2021 , 7, 95	22.3	7
83	Depletion of m A reader protein YTHDC1 induces dilated cardiomyopathy by abnormal splicing of Titin. <i>Journal of Cellular and Molecular Medicine</i> , 2021 , 25, 10879-10891	5.6	6
82	Nuclear mA reader YTHDC1 regulates the scaffold function of LINE1 RNA in mouse ESCs and early embryos. <i>Protein and Cell</i> , 2021 , 12, 455-474	7.2	21
81	Mutations in RNA Methyltransferase Gene Confer High Risk of Outflow Tract Malformation. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 623394	5.7	2
80	YTHDF1 Regulates Pulmonary Hypertension through Translational Control of MAGED1. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021 , 203, 1158-1172	10.2	12
79	The N6-methyladenosine RNA-binding protein YTHDF1 modulates the translation of TRAF6 to mediate the intestinal immune response. <i>Nucleic Acids Research</i> , 2021 , 49, 5537-5552	20.1	34
78	Single-cell RNA-Seq reveals a highly coordinated transcriptional program in mouse germ cells during primordial follicle formation. <i>Aging Cell</i> , 2021 , 20, e13424	9.9	4
77	gene mutation by pair truncated sgRNA/Cas9-D10A in cynomolgus monkeys. <i>Zoological Research</i> , 2021 , 42, 469-477	3.4	5
76	A Critical Role of Nuclear m6A Reader YTHDC1 in Leukemogenesis by Regulating MCM Complex-Mediated DNA Replication. <i>Blood</i> , 2021 ,	2.2	9
75	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. <i>Bioorganic and Medicinal Chemistry</i> , 2021 , 42, 1162-15	3.4	2

74	Precision modeling of mitochondrial diseases in zebrafish via DdCBE-mediated mtDNA base editing. <i>Cell Discovery</i> , 2021 , 7, 78	22.3	14
73	BLZ945 derivatives for PET imaging of colony stimulating factor-1 receptors in the brain. <i>Nuclear Medicine and Biology</i> , 2021 , 100-101, 44-51	2.1	2
72	Extensive humoral immune response to AAVs and Cas proteins in nonhuman primates. <i>Science Bulletin</i> , 2021 , 66, 2061-2064	10.6	1
71	Combined Effects of Single Nucleotide Polymorphisms (SNPs) within C-reactive Protein (CRP) and Environmental Parameters on Risk and Prognosis for Diabetic Foot Osteomyelitis Patients. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 2020 , 128, 528-539	2.3	4
70	Oocyte competence is maintained by mA methyltransferase KIAA1429-mediated RNA metabolism during mouse follicular development. <i>Cell Death and Differentiation</i> , 2020 , 27, 2468-2483	12.7	25
69	Human biodistribution and radiation dosimetry of [F]DASA-23, a PET probe targeting pyruvate kinase M2. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2020 , 47, 2123-2130	8.8	4
68	-methyladenosine of chromosome-associated regulatory RNA regulates chromatin state and transcription. <i>Science</i> , 2020 , 367, 580-586	33.3	185
67	Application of molybdenum target X-ray photography in imaging analysis of caudal intervertebral disc degeneration in rats. <i>World Journal of Clinical Cases</i> , 2020 , 8, 3431-3439	1.6	2
66	The 18S rRNA m A methyltransferase METTL5 promotes mouse embryonic stem cell differentiation. <i>EMBO Reports</i> , 2020 , 21, e49863	6.5	15
65	Dynamics of Staphylococcus aureus Cas9 in DNA target Association and Dissociation. <i>EMBO Reports</i> , 2020 , 21, e50184	6.5	4
64	Intracellular XBP1-IL-24 axis dismantles cytotoxic unfolded protein response in the liver. <i>Cell Death and Disease</i> , 2020 , 11, 17	9.8	5
63	Preoperative vitamin D status and its effects on short-term clinical outcomes in lumbar spine surgery. <i>Journal of Orthopaedic Science</i> , 2020 , 25, 787-792	1.6	2
62	USP15 promotes the apoptosis of degenerative nucleus pulposus cells by suppressing the PI3K/AKT signalling pathway. <i>Journal of Cellular and Molecular Medicine</i> , 2020 , 24, 13813-13823	5.6	5
61	Expression of the RNA methyltransferase Nsun5 is essential for developing cerebral cortex. <i>Molecular Brain</i> , 2019 , 12, 74	4.5	13
60	The inherited variations of a p53-responsive enhancer in 13q12.12 confer lung cancer risk by attenuating TNFRSF19 expression. <i>Genome Biology</i> , 2019 , 20, 103	18.3	14
59	Effects of perinatal dioxin exposure on development of children: a 3-year follow-up study of China cohort. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 20780-20786	5.1	13
58	Agensis and Hypomyelination of Corpus Callosum in Mice Lacking Nsun5, an RNA Methyltransferase. <i>Cells</i> , 2019 , 8,	7.9	8
57	Anti-tumour immunity controlled through mRNA mA methylation and YTHDF1 in dendritic cells. <i>Nature</i> , 2019 , 566, 270-274	50.4	358

56	The post-PAM interaction of RNA-guided spCas9 with DNA dictates its target binding and dissociation. <i>Science Advances</i> , 2019 , 5, eaaw9807	14.3	15
55	YTHDF2 reduction fuels inflammation and vascular abnormalization in hepatocellular carcinoma. <i>Molecular Cancer</i> , 2019 , 18, 163	42.1	113
54	Nuclear Exosome Targeting Complex Core Factor Zcchc8 Regulates the Degradation of LINE1 RNA in Early Embryos and Embryonic Stem Cells. <i>Cell Reports</i> , 2019 , 29, 2461-2472.e6	10.6	13
53	mA in mRNA coding regions promotes translation via the RNA helicase-containing YTHDC2. <i>Nature Communications</i> , 2019 , 10, 5332	17.4	119
52	Transfer RNA demethylase ALKBH3 promotes cancer progression via induction of tRNA-derived small RNAs. <i>Nucleic Acids Research</i> , 2019 , 47, 2533-2545	20.1	108
51	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. <i>Biophysical Chemistry</i> , 2019 , 244, 22-28	3.5	8
50	LncRNA MEG3 negatively modified osteosarcoma development through regulation of miR-361-5p and FoxM1. <i>Journal of Cellular Physiology</i> , 2019 , 234, 13464-13480	7	15
49	A cancer-testis non-coding RNA LIN28B-AS1 activates driver gene LIN28B by interacting with IGF2BP1 in lung adenocarcinoma. <i>Oncogene</i> , 2019 , 38, 1611-1624	9.2	45
48	Cognitive deficits in mice lacking Nsun5, a cytosine-5 RNA methyltransferase, with impairment of oligodendrocyte precursor cells. <i>Glia</i> , 2019 , 67, 688-702	9	11
47	VIRMA mediates preferential mA mRNA methylation in 3ΨTR and near stop codon and associates with alternative polyadenylation. <i>Cell Discovery</i> , 2018 , 4, 10	22.3	332
46	Epitranscriptomic mA Regulation of Axon Regeneration in the Adult Mammalian Nervous System. <i>Neuron</i> , 2018 , 97, 313-325.e6	13.9	171
45	Suppression of mA reader Ythdf2 promotes hematopoietic stem cell expansion. <i>Cell Research</i> , 2018 , 28, 904-917	24.7	124
44	Loss of YTHDF2-mediated mA-dependent mRNA clearance facilitates hematopoietic stem cell regeneration. <i>Cell Research</i> , 2018 , 28, 1035-1038	24.7	56
43	Sox30 initiates transcription of haploid genes during late meiosis and spermiogenesis in mouse testes. <i>Development (Cambridge)</i> , 2018 , 145,	6.6	23
42	APOBEC3 induces mutations during repair of CRISPR-Cas9-generated DNA breaks. <i>Nature Structural and Molecular Biology</i> , 2018 , 25, 45-52	17.6	35
41	A [C] CO dispensing system for rapid screening of carbonylation reactions. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2018 , 61, 1110-1114	1.9	4
40	mA facilitates hippocampus-dependent learning and memory through YTHDF1. <i>Nature</i> , 2018 , 563, 249-253.4	25.4	208
39	Multivariate analysis of airway obstruction and reintubation after anterior cervical surgery: A Retrospective Cohort Study of 774 patients. <i>International Journal of Surgery</i> , 2017 , 41, 28-33	7.5	11

38	Prioritized cervical or lumbar surgery for coexisting cervical and lumbar stenosis: Prognostic analysis of 222 case. <i>International Journal of Surgery</i> , 2017 , 44, 344-349	7.5	6
37	Ythdc2 is an N-methyladenosine binding protein that regulates mammalian spermatogenesis. <i>Cell Research</i> , 2017 , 27, 1115-1127	24.7	404
36	TCTE1 is a conserved component of the dynein regulatory complex and is required for motility and metabolism in mouse spermatozoa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E5370-E5378	11.5	47
35	Gene knockout of Zmym3 in mice arrests spermatogenesis at meiotic metaphase with defects in spindle assembly checkpoint. <i>Cell Death and Disease</i> , 2017 , 8, e2910	9.8	19
34	An essential role for PNLDC1 in piRNA 3'end trimming and male fertility in mice. <i>Cell Research</i> , 2017 , 27, 1392-1396	24.7	44
33	YTHDC1 mediates nuclear export of N-methyladenosine methylated mRNAs. <i>ELife</i> , 2017 , 6,	8.9	452
32	Author response: YTHDC1 mediates nuclear export of N6-methyladenosine methylated mRNAs 2017 ,		6
31	Preparing Platelet-Rich Plasma with Whole Blood Harvested Intraoperatively During Spinal Fusion. <i>Medical Science Monitor</i> , 2017 , 23, 3578-3584	3.2	1
30	CRISPR-Cas9 mediated efficient PD-1 disruption on human primary T cells from cancer patients. <i>Scientific Reports</i> , 2016 , 6, 20070	4.9	188
29	Systematic identification of genes with a cancer-testis expression pattern in 19 cancer types. <i>Nature Communications</i> , 2016 , 7, 10499	17.4	80
28	Angiopoietin receptor Tie2 is required for vein specification and maintenance via regulating COUP-TFII. <i>ELife</i> , 2016 , 5,	8.9	40
27	Transforaminal endoscopic system technique for discogenic low back pain: A prospective Cohort study. <i>International Journal of Surgery</i> , 2016 , 35, 134-138	7.5	9
26	A lipidomics study reveals hepatic lipid signatures associating with deficiency of the LDL receptor in a rat model. <i>Biology Open</i> , 2016 , 5, 979-86	2.2	12
25	Efficient generation of gene-modified pigs via injection of zygote with Cas9/sgRNA. <i>Scientific Reports</i> , 2015 , 5, 8256	4.9	92
24	Generation of fertile offspring from Kit(w)/Kit(wv) mice through differentiation of gene corrected nuclear transfer embryonic stem cells. <i>Cell Research</i> , 2015 , 25, 851-63	24.7	9
23	Opposing Roles for the lncRNA Haunt and Its Genomic Locus in Regulating HOXA Gene Activation during Embryonic Stem Cell Differentiation. <i>Cell Stem Cell</i> , 2015 , 16, 504-16	18	198
22	CRISPR/Cas9-mediated Dax1 knockout in the monkey recapitulates human AHC-HH. <i>Human Molecular Genetics</i> , 2015 , 24, 7255-64	5.6	64
21	Lumbar Spinal Tuberculosis Presenting as Abdominal Pain: Case Report. <i>The Surgery Journal</i> , 2015 , 1, e44-e46	0.9	2

20	Functional annotation of cis-regulatory elements in human cells by dCas9/sgRNA. <i>Cell Research</i> , 2015 , 25, 877-80	24.7	4
19	Off-target mutations are rare in Cas9-modified mice. <i>Nature Methods</i> , 2015 , 12, 479	21.6	149
18	Germline acquisition of Cas9/RNA-mediated gene modifications in monkeys. <i>Cell Research</i> , 2015 , 25, 262-5	24.7	23
17	Efficient targeting of FATS at a common fragile site in mice through TALEN-mediated double-hit genome modification. <i>Biotechnology Letters</i> , 2014 , 36, 471-9	3	8
16	Efficient genome modification by CRISPR-Cas9 nickase with minimal off-target effects. <i>Nature Methods</i> , 2014 , 11, 399-402	21.6	575
15	Generating rats with conditional alleles using CRISPR/Cas9. <i>Cell Research</i> , 2014 , 24, 122-5	24.7	149
14	One-step generation of different immunodeficient mice with multiple gene modifications by CRISPR/Cas9 mediated genome engineering. <i>International Journal of Biochemistry and Cell Biology</i> , 2014 , 46, 49-55	5.6	98
13	Generation of gene-modified cynomolgus monkey via Cas9/RNA-mediated gene targeting in one-cell embryos. <i>Cell</i> , 2014 , 156, 836-43	56.2	764
12	Genetic dissection of tie pathway in mouse lymphatic maturation and valve development. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 1221-30	9.4	36
11	Efficient in vivo deletion of a large imprinted lncRNA by CRISPR/Cas9. <i>RNA Biology</i> , 2014 , 11, 829-35	4.8	121
10	Heritable multiplex genetic engineering in rats using CRISPR/Cas9. <i>PLoS ONE</i> , 2014 , 9, e89413	3.7	77
9	sgRNAs9: a software package for designing CRISPR sgRNA and evaluating potential off-target cleavage sites. <i>PLoS ONE</i> , 2014 , 9, e100448	3.7	218
8	Dual sgRNAs facilitate CRISPR/Cas9-mediated mouse genome targeting. <i>FEBS Journal</i> , 2014 , 281, 1717-25	5.7	97
7	Comparison of different surgical approaches of functional endoscopic sinus surgery on patients with chronic rhinosinusitis. <i>International Journal of Clinical and Experimental Medicine</i> , 2014 , 7, 1585-91		5
6	Generation of gene-modified mice via Cas9/RNA-mediated gene targeting. <i>Cell Research</i> , 2013 , 23, 720-3	24.7	430
5	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. <i>Biology of Reproduction</i> , 2013 , 89, 12	3.9	42
4	Efficient knockin mouse generation by ssDNA oligonucleotides and zinc-finger nuclease assisted homologous recombination in zygotes. <i>PLoS ONE</i> , 2013 , 8, e77696	3.7	15
3	Akt/Protein kinase B is required for lymphatic network formation, remodeling, and valve development. <i>American Journal of Pathology</i> , 2010 , 177, 2124-33	5.8	77

- 2 VEGFR-3 ligand-binding and kinase activity are required for lymphangiogenesis but not for angiogenesis. *Cell Research*, **2010**, 20, 1319-31 24.7 91
- 1 Nuclear m6A reader Ythdc1 regulates the scaffold function of LINE1 in mouse ESCs 1