

Kun Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

21,691
citations

19636

61
h-index

21521

114
g-index

132
all docs

132
docs citations

132
times ranked

33624
citing authors

#	ARTICLE	IF	CITATIONS
1	Temporal analyses of postnatal liver development and maturation by single-cell transcriptomics. <i>Developmental Cell</i> , 2022, 57, 398-414.e5.	3.1	30
2	Discovery of genomic loci of the human cerebral cortex using genetically informed brain atlases. <i>Science</i> , 2022, 375, 522-528.	6.0	31
3	TET1s deficiency exacerbates oscillatory shear flow-induced atherosclerosis. <i>International Journal of Biological Sciences</i> , 2022, 18, 2163-2180.	2.6	13
4	A single-cell regulatory map of postnatal lung alveologenesis in humans and mice. <i>Cell Genomics</i> , 2022, 2, 100108.	3.0	13
5	Dedifferentiation-associated inflammatory factors of long-term expanded human hepatocytes exacerbate their elimination by macrophages during liver engraftment. <i>Hepatology</i> , 2022, 76, 1690-1705.	3.6	11
6	A reference tissue atlas for the human kidney. <i>Science Advances</i> , 2022, 8, .	4.7	67
7	A multimodal and integrated approach to interrogate human kidney biopsies with rigor and reproducibility: guidelines from the Kidney Precision Medicine Project. <i>Physiological Genomics</i> , 2021, 53, 1-11.	1.0	59
8	Rationale and design of the Kidney Precision Medicine Project. <i>Kidney International</i> , 2021, 99, 498-510.	2.6	94
9	5-Azacytidine Transiently Restores Dysregulated Erythroid Differentiation Gene Expression in TET2-Deficient Erythroleukemia Cells. <i>Molecular Cancer Research</i> , 2021, 19, 451-464.	1.5	3
10	A new approach to decode DNA methylome and genomic variants simultaneously from double strand bisulfite sequencing. <i>Briefings in Bioinformatics</i> , 2021, 22, .	3.2	5
11	Charting oncogenicity of genes and variants across lineages via multiplexed screens in teratomas. <i>IScience</i> , 2021, 24, 103149.	1.9	2
12	Comparative cellular analysis of motor cortex in human, marmoset and mouse. <i>Nature</i> , 2021, 598, 111-119.	13.7	361
13	A multimodal cell census and atlas of the mammalian primary motor cortex. <i>Nature</i> , 2021, 598, 86-102.	13.7	316
14	Scalable dual-omics profiling with single-nucleus chromatin accessibility and mRNA expression sequencing 2 (SNARE-seq2). <i>Nature Protocols</i> , 2021, 16, 4992-5029.	5.5	18
15	Non-invasive early detection of cancer four years before conventional diagnosis using a blood test. <i>Nature Communications</i> , 2020, 11, 3475.	5.8	341
16	Defining the Teratoma as a Model for Multi-lineage Human Development. <i>Cell</i> , 2020, 183, 1402-1419.e18.	13.5	32
17	RETrace: simultaneous retrospective lineage tracing and methylation profiling of single cells. <i>Genome Research</i> , 2020, 30, 602-610.	2.4	14
18	Tools for the analysis of high-dimensional single-cell RNA sequencing data. <i>Nature Reviews Nephrology</i> , 2020, 16, 408-421.	4.1	80

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19	Genetic evidence of gender difference in autism spectrum disorder supports the female-protective effect. <i>Translational Psychiatry</i> , 2020, 10, 4.	2.4	84
20	The role of the NMD factor UPF3B in olfactory sensory neurons. <i>ELife</i> , 2020, 9, .	2.8	18
21	A comparative study of the genetic components of three subcategories of autism spectrum disorder. <i>Molecular Psychiatry</i> , 2019, 24, 1720-1731.	4.1	22
22	A single-nucleus RNA-sequencing pipeline to decipher the molecular anatomy and pathophysiology of human kidneys. <i>Nature Communications</i> , 2019, 10, 2832.	5.8	206
23	Cellular Recruitment by Podocyte-Derived Pro-migratory Factors in Assembly of the Human Renal Filter. <i>IScience</i> , 2019, 20, 402-414.	1.9	11
24	Precise in vivo genome editing via single homology arm donor mediated intron-targeting gene integration for genetic disease correction. <i>Cell Research</i> , 2019, 29, 804-819.	5.7	51
25	DNA methylation identifies genetically and prognostically distinct subtypes of myelodysplastic syndromes. <i>Blood Advances</i> , 2019, 3, 2845-2858.	2.5	32
26	High-throughput sequencing of the transcriptome and chromatin accessibility in the same cell. <i>Nature Biotechnology</i> , 2019, 37, 1452-1457.	9.4	550
27	Fever Promotes T Lymphocyte Trafficking via a Thermal Sensory Pathway Involving Heat Shock Protein 90 and β 4 Integrins. <i>Immunity</i> , 2019, 50, 137-151.e6.	6.6	69
28	Epigenetically Silenced Candidate Tumor Suppressor Genes in Prostate Cancer: Identified by Modeling Methylation Stratification and Applied to Progression Prediction. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2019, 28, 198-207.	1.1	5
29	VarCards: an integrated genetic and clinical database for coding variants in the human genome. <i>Nucleic Acids Research</i> , 2018, 46, D1039-D1048.	6.5	148
30	Gel-seq: A Method for Simultaneous Sequencing Library Preparation of DNA and RNA Using Hydrogel Matrices. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	1
31	Single-nucleus analysis of accessible chromatin in developing mouse forebrain reveals cell-type-specific transcriptional regulation. <i>Nature Neuroscience</i> , 2018, 21, 432-439.	7.1	290
32	Integrative single-cell analysis of transcriptional and epigenetic states in the human adult brain. <i>Nature Biotechnology</i> , 2018, 36, 70-80.	9.4	762
33	Large-Scale Targeted DNA Methylation Analysis Using Bisulfite Padlock Probes. <i>Methods in Molecular Biology</i> , 2018, 1708, 365-382.	0.4	1
34	Mapping Cellular Reprogramming via Pooled Overexpression Screens with Paired Fitness and Single-Cell RNA-Sequencing Readout. <i>Cell Systems</i> , 2018, 7, 548-555.e8.	2.9	35
35	Visualizing and Interpreting Single-Cell Gene Expression Datasets with Similarity Weighted Nonnegative Embedding. <i>Cell Systems</i> , 2018, 7, 656-666.e4.	2.9	63
36	Reply to "DNA methylation haplotypes as cancer markers". <i>Nature Genetics</i> , 2018, 50, 1063-1066.	9.4	1

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37	Performance evaluation of pathogenicity-computation methods for missense variants. <i>Nucleic Acids Research</i> , 2018, 46, 7793-7804.	6.5	168
38	PAK2 Haploinsufficiency Results in Synaptic Cytoskeleton Impairment and Autism-Related Behavior. <i>Cell Reports</i> , 2018, 24, 2029-2041.	2.9	64
39	Transcriptomic signature associated with carcinogenesis and aggressiveness of papillary thyroid carcinoma. <i>Theranostics</i> , 2018, 8, 4345-4358.	4.6	63
40	DNA Methylation Identifies Genetically and Prognostically Distinct Subtypes of MDS. <i>Blood</i> , 2018, 132, 106-106.	0.6	0
41	Identification of methylation haplotype blocks aids in deconvolution of heterogeneous tissue samples and tumor tissue-of-origin mapping from plasma DNA. <i>Nature Genetics</i> , 2017, 49, 635-642.	9.4	384
42	Vitamin D-related genes are subjected to significant <i>de novo</i> mutation burdens in autism spectrum disorder. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , 2017, 174, 568-577.	1.1	20
43	Gel-seq: whole-genome and transcriptome sequencing by simultaneous low-input DNA and RNA library preparation using semi-permeable hydrogel barriers. <i>Lab on A Chip</i> , 2017, 17, 2619-2630.	3.1	3
44	High-resolution RNA allelotyping along the inactive X chromosome: evidence of RNA polymerase III in regulating chromatin configuration. <i>Scientific Reports</i> , 2017, 7, 45460.	1.6	10
45	Ultraaccurate genome sequencing and haplotyping of single human cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12512-12517.	3.3	41
46	Targeted sequencing and functional analysis reveal brain-size-related genes and their networks in autism spectrum disorders. <i>Molecular Psychiatry</i> , 2017, 22, 1282-1290.	4.1	95
47	A comparative strategy for single-nucleus and single-cell transcriptomes confirms accuracy in predicted cell-type expression from nuclear RNA. <i>Scientific Reports</i> , 2017, 7, 6031.	1.6	209
48	Targeted methylation sequencing reveals dysregulated Wnt signaling in Parkinson disease. <i>Journal of Genetics and Genomics</i> , 2016, 43, 587-592.	1.7	52
49	Characterization of chromatin accessibility with a transposome hypersensitive sites sequencing (THS-seq) assay. <i>Genome Biology</i> , 2016, 17, 20.	3.8	55
50	Mechanical signals regulate and activate SNAIL1 protein to control the fibrogenic response of CAFs. <i>Journal of Cell Science</i> , 2016, 129, 1989-2002.	1.2	57
51	AJUBA LIM Proteins Limit Hippo Activity in Proliferating Cells by Sequestering the Hippo Core Kinase Complex in the Cytosol. <i>Molecular and Cellular Biology</i> , 2016, 36, 2526-2542.	1.1	50
52	In vivo genome editing via CRISPR/Cas9 mediated homology-independent targeted integration. <i>Nature</i> , 2016, 540, 144-149.	18.7	906
53	The Action of Discoidin Domain Receptor 2 in Basal Tumor Cells and Stromal Cancer-Associated Fibroblasts Is Critical for Breast Cancer Metastasis. <i>Cell Reports</i> , 2016, 15, 2510-2523.	2.9	85
54	Quantitative comparison of DNA methylation assays for biomarker development and clinical applications. <i>Nature Biotechnology</i> , 2016, 34, 726-737.	9.4	270

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55	Neuronal subtypes and diversity revealed by single-nucleus RNA sequencing of the human brain. <i>Science</i> , 2016, 352, 1586-1590.	6.0	822
56	Characterizing transcriptional heterogeneity through pathway and gene set overdispersion analysis. <i>Nature Methods</i> , 2016, 13, 241-244.	9.0	356
57	Fluorescent in situ sequencing (FISSEQ) of RNA for gene expression profiling in intact cells and tissues. <i>Nature Protocols</i> , 2015, 10, 442-458.	5.5	422
58	The lncRNA DEANR1 Facilitates Human Endoderm Differentiation by Activating FOXA2 Expression. <i>Cell Reports</i> , 2015, 11, 137-148.	2.9	127
59	Humanized Mice Reveal Differential Immunogenicity of Cells Derived from Autologous Induced Pluripotent Stem Cells. <i>Cell Stem Cell</i> , 2015, 17, 353-359.	5.2	198
60	Characterization of Genome-Methylome Interactions in 22 Nuclear Pedigrees. <i>PLoS ONE</i> , 2014, 9, e99313.	1.1	15
61	Development and Bias Assessment of a Method for Targeted Metagenomic Sequencing of Marine Cyanobacteria. <i>Applied and Environmental Microbiology</i> , 2014, 80, 1116-1125.	1.4	12
62	Global DNA methylation and transcriptional analyses of human ESC-derived cardiomyocytes. <i>Protein and Cell</i> , 2014, 5, 59-68.	4.8	26
63	Comparable Frequencies of Coding Mutations and Loss of Imprinting in Human Pluripotent Cells Derived by Nuclear Transfer and Defined Factors. <i>Cell Stem Cell</i> , 2014, 15, 634-642.	5.2	113
64	Advances in the profiling of DNA modifications: cytosine methylation and beyond. <i>Nature Reviews Genetics</i> , 2014, 15, 647-661.	7.7	224
65	Modelling Fanconi anemia pathogenesis and therapeutics using integration-free patient-derived iPSCs. <i>Nature Communications</i> , 2014, 5, 4330.	5.8	102
66	Distinct Chemokine Signaling Regulates Integrin Ligand Specificity to Dictate Tissue-Specific Lymphocyte Homing. <i>Developmental Cell</i> , 2014, 30, 61-70.	3.1	75
67	Mouse SCNT ESCs Have Lower Somatic Mutation Load Than Syngeneic iPSCs. <i>Stem Cell Reports</i> , 2014, 2, 399-405.	2.3	20
68	Analysis of protein-coding mutations in hiPSCs and their possible role during somatic cell reprogramming. <i>Nature Communications</i> , 2013, 4, 1382.	5.8	58
69	The Presenilin-1 E9 Mutation Results in Reduced β -Secretase Activity, but Not Total Loss of PS1 Function, in Isogenic Human Stem Cells. <i>Cell Reports</i> , 2013, 5, 974-985.	2.9	168
70	Massively parallel polymerase cloning and genome sequencing of single cells using nanoliter microwells. <i>Nature Biotechnology</i> , 2013, 31, 1126-1132.	9.4	231
71	On the design of clone-based haplotyping. <i>Genome Biology</i> , 2013, 14, R100.	13.9	18
72	Genome-wide Analysis Reveals TET- and TDG-Dependent 5-Methylcytosine Oxidation Dynamics. <i>Cell</i> , 2013, 153, 692-706.	13.5	440

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73	Microfluidic devices with permeable polymer barriers for capture and transport of biomolecules and cells. <i>Lab on A Chip</i> , 2013, 13, 3389.	3.1	13
74	The Unique Disulfide Bond-stabilized W1 β Loop in the β -Propeller Domain Regulates Integrin α 7 Affinity and Signaling. <i>Journal of Biological Chemistry</i> , 2013, 288, 14228-14237.	1.6	12
75	Disruption of disulfide-restriction at integrin knees induces activation and ligand-independent signaling of α 7. <i>Journal of Cell Science</i> , 2013, 126, 5030-41.	1.2	8
76	Dynamics of 5-methylcytosine and 5-hydroxymethylcytosine during germ cell reprogramming. <i>Cell Research</i> , 2013, 23, 329-339.	5.7	152
77	Global DNA methylation and transcriptional analyses of human ESC-derived cardiomyocytes. <i>Protein and Cell</i> , 2013, 5, 59.	4.8	3
78	Chromatin signature of widespread monoallelic expression. <i>ELife</i> , 2013, 2, e01256.	2.8	71
79	The regulation of integrin function by divalent cations. <i>Cell Adhesion and Migration</i> , 2012, 6, 20-29.	1.1	205
80	A public resource facilitating clinical use of genomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11920-11927.	3.3	194
81	Tet1 controls meiosis by regulating meiotic gene expression. <i>Nature</i> , 2012, 492, 443-447.	13.7	255
82	Whole-Genome Sequencing in Autism Identifies Hot Spots for De Novo Germline Mutation. <i>Cell</i> , 2012, 151, 1431-1442.	13.5	501
83	Library-free methylation sequencing with bisulfite padlock probes. <i>Nature Methods</i> , 2012, 9, 270-272.	9.0	92
84	Evolutionary History and Adaptation from High-Coverage Whole-Genome Sequences of Diverse African Hunter-Gatherers. <i>Cell</i> , 2012, 150, 457-469.	13.5	289
85	Identification of a specific reprogramming-associated epigenetic signature in human induced pluripotent stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 16196-16201.	3.3	152
86	The metabolome of induced pluripotent stem cells reveals metabolic changes occurring in somatic cell reprogramming. <i>Cell Research</i> , 2012, 22, 168-177.	5.7	452
87	Genome-wide mapping of the sixth base. <i>Genome Biology</i> , 2011, 12, 116.	13.9	0
88	Specific Sorting of Single Bacterial Cells with Microfabricated Fluorescence-Activated Cell Sorting and Tyramide Signal Amplification Fluorescence in Situ Hybridization. <i>Analytical Chemistry</i> , 2011, 83, 7269-7275.	3.2	50
89	Increased methylation variation in epigenetic domains across cancer types. <i>Nature Genetics</i> , 2011, 43, 768-775.	9.4	968
90	Genome-wide Regulation of 5hmC, 5mC, and Gene Expression by Tet1 Hydroxylase in Mouse Embryonic Stem Cells. <i>Molecular Cell</i> , 2011, 42, 451-464.	4.5	551

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91	Targeted Gene Correction of Laminopathy-Associated LMNA Mutations in Patient-Specific iPSCs. <i>Cell Stem Cell</i> , 2011, 8, 688-694.	5.2	214
92	Human oocytes reprogram somatic cells to a pluripotent state. <i>Nature</i> , 2011, 478, 70-75.	13.7	221
93	Somatic coding mutations in human induced pluripotent stem cells. <i>Nature</i> , 2011, 471, 63-67.	13.7	1,147
94	Recapitulation of premature ageing with iPSCs from Hutchinsonâ€™Gilford progeria syndrome. <i>Nature</i> , 2011, 472, 221-225.	13.7	510
95	Mediators and dynamics of DNA methylation. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2011, 3, 281-298.	6.6	7
96	Targeted bisulfite sequencing by solution hybrid selection and massively parallel sequencing. <i>Nucleic Acids Research</i> , 2011, 39, e127-e127.	6.5	61
97	Genetic correction and analysis of induced pluripotent stem cells from a patient with gyrate atrophy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 6537-6542.	3.3	150
98	Rapid identification of heterozygous mutations in <i>Drosophila melanogaster</i> using genomic capture sequencing. <i>Genome Research</i> , 2010, 20, 981-988.	2.4	30
99	Allele-specific methylation is prevalent and is contributed by CpG-SNPs in the human genome. <i>Genome Research</i> , 2010, 20, 883-889.	2.4	343
100	Multiplex padlock targeted sequencing reveals human hypermutable CpG variations. <i>Genome Research</i> , 2009, 19, 1606-1615.	2.4	62
101	Targeted bisulfite sequencing reveals changes in DNA methylation associated with nuclear reprogramming. <i>Nature Biotechnology</i> , 2009, 27, 353-360.	9.4	458
102	Digital RNA allelotyping reveals tissue-specific and allele-specific gene expression in human. <i>Nature Methods</i> , 2009, 6, 613-618.	9.0	149
103	Optimal Timing of Inner Cell Mass Isolation Increases the Efficiency of Human Embryonic Stem Cell Derivation and Allows Generation of Sibling Cell Lines. <i>Cell Stem Cell</i> , 2009, 4, 103-106.	5.2	171
104	Genome-Wide Identification of Human RNA Editing Sites by Parallel DNA Capturing and Sequencing. <i>Science</i> , 2009, 324, 1210-1213.	6.0	483
105	A Robust Approach to Identifying Tissue-Specific Gene Expression Regulatory Variants Using Personalized Human Induced Pluripotent Stem Cells. <i>PLoS Genetics</i> , 2009, 5, e1000718.	1.5	55
106	Multiplex amplification of large sets of human exons. <i>Nature Methods</i> , 2007, 4, 931-936.	9.0	392
107	Finding the Needles in the Metagenome Haystack. <i>Microbial Ecology</i> , 2007, 53, 475-485.	1.4	68
108	Sequencing genomes from single cells by polymerase cloning. <i>Nature Biotechnology</i> , 2006, 24, 680-686.	9.4	388

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109	Long-range polony haplotyping of individual human chromosome molecules. <i>Nature Genetics</i> , 2006, 38, 382-387.	9.4	97
110	Accurate Multiplex Polony Sequencing of an Evolved Bacterial Genome. <i>Science</i> , 2005, 309, 1728-1732.	6.0	1,189
111	Randomly distributed crossovers may generate block-like patterns of linkage disequilibrium: an act of genetic drift. <i>Human Genetics</i> , 2003, 113, 51-59.	1.8	41
112	The Effect of Single Nucleotide Polymorphism Identification Strategies on Estimates of Linkage Disequilibrium. <i>Molecular Biology and Evolution</i> , 2003, 20, 232-242.	3.5	67
113	HaploBlockFinder: haplotype block analyses. <i>Bioinformatics</i> , 2003, 19, 1300-1301.	1.8	112
114	Interrogating a High-Density SNP Map for Signatures of Natural Selection. <i>Genome Research</i> , 2002, 12, 1805-1814.	2.4	852
115	Distribution of Recombination Crossovers and the Origin of Haplotype Blocks: The Interplay of Population History, Recombination, and Mutation. <i>American Journal of Human Genetics</i> , 2002, 71, 1227-1234.	2.6	399
116	The Effect That Genotyping Errors Have on the Robustness of Common Linkage-Disequilibrium Measures. <i>American Journal of Human Genetics</i> , 2001, 68, 1447-1456.	2.6	110