

Zizhen Yao

List of Publications by Year in descending order

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67
papers

13,698
citations

66250

44
h-index

107981

68
g-index

92
all docs

92
docs citations

92
times ranked

18110
citing authors

#	ARTICLE	IF	CITATIONS
1	Dense functional and molecular readout of a circuit hub in sensory cortex. <i>Science</i> , 2022, 375, eabl5981.	6.0	36
2	Phenotypic variation of transcriptomic cell types in mouse motor cortex. <i>Nature</i> , 2021, 598, 144-150.	13.7	196
3	Alternating sources of perisomatic inhibition during behavior. <i>Neuron</i> , 2021, 109, 997-1012.e9.	3.8	67
4	Enhancer viruses for combinatorial cell-subclass-specific labeling. <i>Neuron</i> , 2021, 109, 1449-1464.e13.	3.8	93
5	A taxonomy of transcriptomic cell types across the isocortex and hippocampal formation. <i>Cell</i> , 2021, 184, 3222-3241.e26.	13.5	479
6	Control of impulsivity by Gi-protein signalling in layer-5 pyramidal neurons of the anterior cingulate cortex. <i>Communications Biology</i> , 2021, 4, 662.	2.0	15
7	Single-cell and single-nucleus RNA-seq uncovers shared and distinct axes of variation in dorsal LGN neurons in mice, non-human primates, and humans. <i>ELife</i> , 2021, 10, .	2.8	41
8	A transcriptomic and epigenomic cell atlas of the mouse primary motor cortex. <i>Nature</i> , 2021, 598, 103-110.	13.7	166
9	Morphological diversity of single neurons in molecularly defined cell types. <i>Nature</i> , 2021, 598, 174-181.	13.7	180
10	Isoform cell-type specificity in the mouse primary motor cortex. <i>Nature</i> , 2021, 598, 195-199.	13.7	52
11	Human neocortical expansion involves glutamatergic neuron diversification. <i>Nature</i> , 2021, 598, 151-158.	13.7	160
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	Spatially resolved cell atlas of the mouse primary motor cortex by MERFISH. <i>Nature</i> , 2021, 598, 137-143.	13.7	205
15	Integrated Morphoelectric and Transcriptomic Classification of Cortical GABAergic Cells. <i>Cell</i> , 2020, 183, 935-953.e19.	13.5	290
16	Multimodal Analysis of Cell Types in a Hypothalamic Node Controlling Social Behavior. <i>Cell</i> , 2019, 179, 713-728.e17.	13.5	186
17	Conserved cell types with divergent features in human versus mouse cortex. <i>Nature</i> , 2019, 573, 61-68.	13.7	1,198
18	MYOD1 functions as a clock amplifier as well as a critical co-factor for downstream circadian gene expression in muscle. <i>ELife</i> , 2019, 8, .	2.8	49

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19	Single-cell transcriptomic evidence for dense intracortical neuropeptide networks. <i>ELife</i> , 2019, 8, .	2.8	98
20	Single-cell profiling of the developing mouse brain and spinal cord with split-pool barcoding. <i>Science</i> , 2018, 360, 176-182.	6.0	961
21	Single-nucleus and single-cell transcriptomes compared in matched cortical cell types. <i>PLoS ONE</i> , 2018, 13, e0209648.	1.1	400
22	Distinct descending motor cortex pathways and their roles in movement. <i>Nature</i> , 2018, 563, 79-84.	13.7	320
23	Shared and distinct transcriptomic cell types across neocortical areas. <i>Nature</i> , 2018, 563, 72-78.	13.7	1,323
24	A Suite of Transgenic Driver and Reporter Mouse Lines with Enhanced Brain-Cell-Type Targeting and Functionality. <i>Cell</i> , 2018, 174, 465-480.e22.	13.5	571
25	Small noncoding RNAs in FSHD2 muscle cells reveal both DUX4- and SMCHD1-specific signatures. <i>Human Molecular Genetics</i> , 2018, 27, 2644-2657.	1.4	6
26	Single-Cell Profiling of an In Vitro Model of Human Interneuron Development Reveals Temporal Dynamics of Cell Type Production and Maturation. <i>Neuron</i> , 2017, 93, 1035-1048.e5.	3.8	43
27	The identification and functional annotation of RNA structures conserved in vertebrates. <i>Genome Research</i> , 2017, 27, 1371-1383.	2.4	71
28	SMCHD1 regulates a limited set of gene clusters on autosomal chromosomes. <i>Skeletal Muscle</i> , 2017, 7, 12.	1.9	32
29	A Single-Cell Roadmap of Lineage Bifurcation in Human ESC Models of Embryonic Brain Development. <i>Cell Stem Cell</i> , 2017, 20, 120-134.	5.2	118
30	Layer-specific chromatin accessibility landscapes reveal regulatory networks in adult mouse visual cortex. <i>ELife</i> , 2017, 6, .	2.8	73
31	Inferring cortical function in the mouse visual system through large-scale systems neuroscience. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7337-7344.	3.3	82
32	Fixed single-cell transcriptomic characterization of human radial glial diversity. <i>Nature Methods</i> , 2016, 13, 87-93.	9.0	201
33	Distinct Activities of Myf5 and MyoD Indicate Separate Roles in Skeletal Muscle Lineage Specification and Differentiation. <i>Developmental Cell</i> , 2016, 36, 375-385.	3.1	85
34	Adult mouse cortical cell taxonomy revealed by single cell transcriptomics. <i>Nature Neuroscience</i> , 2016, 19, 335-346.	7.1	1,522
35	Conversion of MyoD to a Neurogenic Factor: Binding Site Specificity Determines Lineage. <i>Cell Reports</i> , 2015, 10, 1937-1946.	2.9	45
36	DICER/AGO-dependent epigenetic silencing of D4Z4 repeats enhanced by exogenous siRNA suggests mechanisms and therapies for FSHD. <i>Human Molecular Genetics</i> , 2015, 24, 4817-4828.	1.4	37

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37	DUX4-induced gene expression is the major molecular signature in FSHD skeletal muscle. <i>Human Molecular Genetics</i> , 2014, 23, 5342-5352.	1.4	170
38	DUX4 promotes transcription of FRG2 by directly activating its promoter in facioscapulohumeral muscular dystrophy. <i>Skeletal Muscle</i> , 2014, 4, 19.	1.9	19
39	Discriminative motif analysis of high-throughput dataset. <i>Bioinformatics</i> , 2014, 30, 775-783.	1.8	39
40	Antagonistic regulation of p57kip2 by Hes/Hey downstream of Notch signaling and muscle regulatory factors regulates skeletal muscle growth arrest. <i>Development (Cambridge)</i> , 2014, 141, 2780-2790.	1.2	45
41	Comparison of endogenous and overexpressed MyoD shows enhanced binding of physiologically bound sites. <i>Skeletal Muscle</i> , 2013, 3, 8.	1.9	23
42	Comparison of Genome-Wide Binding of MyoD in Normal Human Myogenic Cells and Rhabdomyosarcomas Identifies Regional and Local Suppression of Promyogenic Transcription Factors. <i>Molecular and Cellular Biology</i> , 2013, 33, 773-784.	1.1	62
43	Genome-wide binding of the basic helix-loop-helix myogenic inhibitor musculin has substantial overlap with MyoD: implications for buffering activity. <i>Skeletal Muscle</i> , 2013, 3, 26.	1.9	16
44	Tissue-specific splicing of a ubiquitously expressed transcription factor is essential for muscle differentiation. <i>Genes and Development</i> , 2013, 27, 1247-1259.	2.7	94
45	DUX4 Binding to Retroelements Creates Promoters That Are Active in FSHD Muscle and Testis. <i>PLoS Genetics</i> , 2013, 9, e1003947.	1.5	151
46	Myod and <i>H19</i> - <i>Igf2</i> locus interactions are required for diaphragm formation in the mouse. <i>Development (Cambridge)</i> , 2013, 140, 1231-1239.	1.2	57
47	Intrinsic Epigenetic Regulation of the D4Z4 Macrosatellite Repeat in a Transgenic Mouse Model for FSHD. <i>PLoS Genetics</i> , 2013, 9, e1003415.	1.5	95
48	Fundamental differences in promoter CpG island DNA hypermethylation between human cancer and genetically engineered mouse models of cancer. <i>Epigenetics</i> , 2013, 8, 1254-1260.	1.3	16
49	Pbx and Prdm1a transcription factors differentially regulate subsets of the fast skeletal muscle program in zebrafish. <i>Biology Open</i> , 2013, 2, 546-555.	0.6	23
50	Genome-wide DNA methylation studies suggest distinct DNA methylation patterns in pediatric embryonal and alveolar rhabdomyosarcomas. <i>Epigenetics</i> , 2012, 7, 400-408.	1.3	56
51	DUX4 Activates Germline Genes, Retroelements, and Immune Mediators: Implications for Facioscapulohumeral Dystrophy. <i>Developmental Cell</i> , 2012, 22, 38-51.	3.1	384
52	Genetic and Epigenetic Determinants of Neurogenesis and Myogenesis. <i>Developmental Cell</i> , 2012, 22, 721-735.	3.1	100
53	miR-206 integrates multiple components of differentiation pathways to control the transition from growth to differentiation in rhabdomyosarcoma cells. <i>Skeletal Muscle</i> , 2012, 2, 7.	1.9	37
54	Differential genomic targeting of the transcription factor TAL1 in alternate haematopoietic lineages. <i>EMBO Journal</i> , 2011, 30, 494-509.	3.5	120

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55	MyoD Directly Up-regulates Premyogenic Mesoderm Factors during Induction of Skeletal Myogenesis in Stem Cells. <i>Journal of Biological Chemistry</i> , 2011, 286, 2517-2525.	1.6	38
56	De novo prediction of structured RNAs from genomic sequences. <i>Trends in Biotechnology</i> , 2010, 28, 9-19.	4.9	58
57	Genome-wide MyoD Binding in Skeletal Muscle Cells: A Potential for Broad Cellular Reprogramming. <i>Developmental Cell</i> , 2010, 18, 662-674.	3.1	434
58	A widespread riboswitch candidate that controls bacterial genes involved in molybdenum cofactor and tungsten cofactor metabolism. <i>Molecular Microbiology</i> , 2008, 68, 918-932.	1.2	142
59	The aptamer core of SAM-IV riboswitches mimics the ligand-binding site of SAM-I riboswitches. <i>Rna</i> , 2008, 14, 822-828.	1.6	103
60	Comparative genomics beyond sequence-based alignments: RNA structures in the ENCODE regions. <i>Genome Research</i> , 2008, 18, 242-251.	2.4	82
61	A Computational Pipeline for High- Throughput Discovery of cis-Regulatory Noncoding RNA in Prokaryotes. <i>PLoS Computational Biology</i> , 2007, 3, e126.	1.5	77
62	Identification of 22 candidate structured RNAs in bacteria using the CMfinder comparative genomics pipeline. <i>Nucleic Acids Research</i> , 2007, 35, 4809-4819.	6.5	292
63	A Marfan syndrome gene expression phenotype in cultured skin fibroblasts. <i>BMC Genomics</i> , 2007, 8, 319.	1.2	21
64	Bone morphogenetic protein 4: Potential regulator of shear stress-induced graft neointimal atrophy. <i>Journal of Vascular Surgery</i> , 2006, 43, 150-158.	0.6	22
65	A Regression-based K nearest neighbor algorithm for gene function prediction from heterogeneous data. <i>BMC Bioinformatics</i> , 2006, 7, S11.	1.2	86
66	CMfinder—a covariance model based RNA motif finding algorithm. <i>Bioinformatics</i> , 2006, 22, 445-452.	1.8	316
67	A Suite of Transgenic Driver and Reporter Mouse Lines with Enhanced Brain Cell Type Targeting and Functionality. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2