Evan Z Macosko

List of Publications by Year in Descending Order

52 papers	10,810 citations	26 h-index	68 g-index
68 ext. papers	16,242 ext. citations	34.3 avg, IF	6.17 L-index

#	Paper	IF	Citations
52	Dissection of artifactual and confounding glial signatures by single-cell sequencing of mouse and human brain.. *Nature Neuroscience*, **2022**, 25, 306-316	25.5	6
51	High-resolution Slide-seqV2 spatial transcriptomics enables discovery of disease-specific cell neighborhoods and pathways.. *IScience*, **2022**, 25, 104097	6.1	1
50	Single-cell genomic profiling of human dopamine neurons identifies a population that selectively degenerates in Parkinson's disease.. *Nature Neuroscience*, **2022**, 25, 588-595	25.5	11
49	Spatial genomics enables multi-modal study of clonal heterogeneity in tissues.. *Nature*, **2021**,	50.4	6
48	Dissecting mammalian spermatogenesis using spatial transcriptomics. *Cell Reports*, **2021**, 37, 109915	10.6	8
47	Control of osteocyte dendrite formation by Sp7 and its target gene osteocrin. *Nature Communications*, **2021**, 12, 6271	17.4	6
46	Graded heterogeneity of metabotropic signaling underlies a continuum of cell-intrinsic temporal responses in unipolar brush cells. *Nature Communications*, **2021**, 12, 5491	17.4	4
45	A transcriptomic and epigenomic cell atlas of the mouse primary motor cortex. *Nature*, **2021**, 598, 103-110	50.4	23
44	Comparative cellular analysis of motor cortex in human, marmoset and mouse. *Nature*, **2021**, 598, 111-119	50.4	31
43	A multimodal cell census and atlas of the mammalian primary motor cortex. *Nature*, **2021**, 598, 86-102	50.4	44
42	A transcriptomic atlas of mouse cerebellar cortex comprehensively defines cell types. *Nature*, **2021**, 598, 214-219	50.4	16
41	Deep learning and alignment of spatially resolved single-cell transcriptomes with Tangram. *Nature Methods*, **2021**, 18, 1352-1362	21.6	25
40	Voices of biotech research. *Nature Biotechnology*, **2021**, 39, 281-286	44.5	1
39	Molecular logic of cellular diversification in the mouse cerebral cortex. *Nature*, **2021**, 595, 554-559	50.4	33
38	Highly sensitive spatial transcriptomics at near-cellular resolution with Slide-seqV2. *Nature Biotechnology*, **2021**, 39, 313-319	44.5	120
37	Robust decomposition of cell type mixtures in spatial transcriptomics. *Nature Biotechnology*, **2021**,	44.5	64
36	Single-cell RNA sequencing at isoform resolution. *Nature Biotechnology*, **2020**, 38, 697-698	44.5	1

35	Jointly defining cell types from multiple single-cell datasets using LIGER. *Nature Protocols*, **2020**, 15, 3632-3662	18.8	17
34	Single-Cell Multi-omic Integration Compares and Contrasts Features of Brain Cell Identity. *Cell*, **2019**, 177, 1873-1887.e17	56.2	378
33	Slide-seq: A scalable technology for measuring genome-wide expression at high spatial resolution. *Science*, **2019**, 363, 1463-1467	33.3	669
32	Single-Cell RNA Sequencing of Microglia throughout the Mouse Lifespan and in the Injured Brain Reveals Complex Cell-State Changes. *Immunity*, **2019**, 50, 253-271.e6	32.3	644
31	Heritability enrichment of specifically expressed genes identifies disease-relevant tissues and cell types. *Nature Genetics*, **2018**, 50, 621-629	36.3	400
30	Molecular Diversity and Specializations among the Cells of the Adult Mouse Brain. *Cell*, **2018**, 174, 1015-1030.e16	56.2	668
29	A molecular census of arcuate hypothalamus and median eminence cell types. *Nature Neuroscience*, **2017**, 20, 484-496	25.5	401
28	Cell diversity and network dynamics in photosensitive human brain organoids. *Nature*, **2017**, 545, 48-53	50.4	609
27	Genetically Distinct Parallel Pathways in the Entopeduncular Nucleus for Limbic and Sensorimotor Output of the Basal Ganglia. *Neuron*, **2017**, 94, 138-152.e5	13.9	95
26	Comprehensive Classification of Retinal Bipolar Neurons by Single-Cell Transcriptomics. *Cell*, **2016**, 166, 1308-1323.e30	56.2	675
25	Balancing selection shapes density-dependent foraging behaviour. *Nature*, **2016**, 539, 254-258	50.4	89
24	Highly Parallel Genome-wide Expression Profiling of Individual Cells Using Nanoliter Droplets. *Cell*, **2015**, 161, 1202-1214	56.2	3873
23	Serotonin and the neuropeptide PDF initiate and extend opposing behavioral states in C. elegans. *Cell*, **2013**, 154, 1023-1035	56.2	230
22	Genetics. Our fallen genomes. *Science*, **2013**, 342, 564-5	33.3	6
21	Neuromodulatory state and sex specify alternative behaviors through antagonistic synaptic pathways in C. elegans. *Neuron*, **2012**, 75, 585-92	13.9	100
20	Oxytocin/vasopressin-related peptides have an ancient role in reproductive behavior. *Science*, **2012**, 338, 540-3	33.3	179
19	A hub-and-spoke circuit drives pheromone attraction and social behaviour in C. elegans. *Nature*, **2009**, 458, 1171-5	50.4	350
18	Quantitative mapping of a digenic behavioral trait implicates globin variation in C. elegans sensory behaviors. *Neuron*, **2009**, 61, 692-9	13.9	177

17	Innate immunity in Caenorhabditis elegans is regulated by neurons expressing NPR-1/GPCR. *Science*, **2008**, 322, 460-4	33.3	166
16	Functional and selective RNA interference in developing axons and growth cones. *Journal of Neuroscience*, **2006**, 26, 5727-32	6.6	141
15	Local translation of RhoA regulates growth cone collapse. *Nature*, **2005**, 436, 1020-1024	50.4	347
14	Fresh Frozen Mouse Brain Preparation (for Single Nuclei Sequencing) v1		2
13	High Resolution Slide-seqV2 Spatial Transcriptomics Enables Discovery of Disease-Specific Cell Neighborhoods and Pathways		3
12	An integrated transcriptomic and epigenomic atlas of mouse primary motor cortex cell types		23
11	A transcriptomic atlas of the mouse cerebellum reveals regional specializations and novel cell types		28
10	Sensitive spatial genome wide expression profiling at cellular resolution		18
9	Evolution of cellular diversity in primary motor cortex of human, marmoset monkey, and mouse		33
8	Robust decomposition of cell type mixtures in spatial transcriptomics		16
7	Molecular Logic of Cellular Diversification in the Mammalian Cerebral Cortex		8
6	Deep learning and alignment of spatially-resolved whole transcriptomes of single cells in the mouse brain with Tangram		17
5	Dissecting Mammalian Spermatogenesis Using Spatial Transcriptomics		3
4	A multimodal cell census and atlas of the mammalian primary motor cortex		12
3	Single Cell Sequencing Reveals Glial Specific Responses to Tissue Processing & Enzymatic Dissociation in Mice and Humans		10
2	Candelabrum cells are molecularly distinct, ubiquitous interneurons of the cerebellar cortex with specialized circuit properties		2
1	An atlas of healthy and injured cell states and niches in the human kidney		10