

Eran A Mukamel

List of Publications by Citations

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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.

49
papers

5,433
citations

26
h-index

60
g-index

60
ext. papers

7,378
ext. citations

17.4
avg, IF

5.34
L-index

#	Paper	IF	Citations
49	Global epigenomic reconfiguration during mammalian brain development. <i>Science</i> , 2013 , 341, 1237905	33.3	1283
48	Electroencephalogram signatures of loss and recovery of consciousness from propofol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E1142-51	11.5	444
47	Automated analysis of cellular signals from large-scale calcium imaging data. <i>Neuron</i> , 2009 , 63, 747-60	13.9	443
46	Human body epigenome maps reveal noncanonical DNA methylation variation. <i>Nature</i> , 2015 , 523, 212-6	50.4	442
45	Epigenomic Signatures of Neuronal Diversity in the Mammalian Brain. <i>Neuron</i> , 2015 , 86, 1369-84	13.9	430
44	High-speed, miniaturized fluorescence microscopy in freely moving mice. <i>Nature Methods</i> , 2008 , 5, 935-8	21.6	289
43	Single-cell methylomes identify neuronal subtypes and regulatory elements in mammalian cortex. <i>Science</i> , 2017 , 357, 600-604	33.3	279
42	Rapid fragmentation of neuronal networks at the onset of propofol-induced unconsciousness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E3377-86	11.5	278
41	Motor behavior activates Bergmann glial networks. <i>Neuron</i> , 2009 , 62, 400-12	13.9	220
40	Advances in light microscopy for neuroscience. <i>Annual Review of Neuroscience</i> , 2009 , 32, 435-506	17	217
39	Statistical deconvolution for superresolution fluorescence microscopy. <i>Biophysical Journal</i> , 2012 , 102, 2391-400	2.9	129
38	Epigenomic landscapes of retinal rods and cones. <i>ELife</i> , 2016 , 5, e11613	8.9	83
37	A transition in brain state during propofol-induced unconsciousness. <i>Journal of Neuroscience</i> , 2014 , 34, 839-45	6.6	82
36	Environmental enrichment increases transcriptional and epigenetic differentiation between mouse dorsal and ventral dentate gyrus. <i>Nature Communications</i> , 2018 , 9, 298	17.4	73
35	Comprehensive analysis of single cell ATAC-seq data with SnapATAC. <i>Nature Communications</i> , 2021 , 12, 1337	17.4	61
34	Disruption of mGluR5 in parvalbumin-positive interneurons induces core features of neurodevelopmental disorders. <i>Molecular Psychiatry</i> , 2015 , 20, 1161-72	15.1	52
33	SnapATAC: A Comprehensive Analysis Package for Single Cell ATAC-seq		48

32	A unique role for DNA (hydroxy)methylation in epigenetic regulation of human inhibitory neurons. <i>Science Advances</i> , 2018 , 4, eaau6190	14.3	46
31	A multimodal cell census and atlas of the mammalian primary motor cortex. <i>Nature</i> , 2021 , 598, 86-102	50.4	44
30	Turning over DNA methylation in the mind. <i>Frontiers in Neuroscience</i> , 2015 , 9, 252	5.1	43
29	Allele-specific non-CG DNA methylation marks domains of active chromatin in female mouse brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E2882-E2890	11.5	35
28	Evolution of cellular diversity in primary motor cortex of human, marmoset monkey, and mouse		33
27	Comparative cellular analysis of motor cortex in human, marmoset and mouse. <i>Nature</i> , 2021 , 598, 111-119	50.4	31
26	Single-Cell Sequencing of Brain Cell Transcriptomes and Epigenomes. <i>Neuron</i> , 2021 , 109, 11-26	13.9	31
25	Lock-and-key mechanisms of cerebellar memory recall based on rebound currents. <i>Journal of Neurophysiology</i> , 2008 , 100, 2328-47	3.2	29
24	Unified resolution bounds for conventional and stochastic localization fluorescence microscopy. <i>Physical Review Letters</i> , 2012 , 109, 168102	7.4	26
23	A transcriptomic and epigenomic cell atlas of the mouse primary motor cortex. <i>Nature</i> , 2021 , 598, 103-115	50.4	23
22	Single nucleus multi-omics links human cortical cell regulatory genome diversity to disease risk variants		23
21	An integrated transcriptomic and epigenomic atlas of mouse primary motor cortex cell types		23
20	Perspectives on defining cell types in the brain. <i>Current Opinion in Neurobiology</i> , 2019 , 56, 61-68	7.6	22
19	Maternal immune activation impairs cognitive flexibility and alters transcription in frontal cortex. <i>Neurobiology of Disease</i> , 2019 , 125, 211-218	7.5	21
18	Phase-based measures of cross-frequency coupling in brain electrical dynamics under general anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 1981-4	0.9	19
17	An Atlas of Gene Regulatory Elements in Adult Mouse Cerebrum		15
16	DNA methylation atlas of the mouse brain at single-cell resolution. <i>Nature</i> , 2021 , 598, 120-128	50.4	14
15	A transient cortical state with sleep-like sensory responses precedes emergence from general anesthesia in humans. <i>ELife</i> , 2018 , 7,	8.9	13

14	A multimodal cell census and atlas of the mammalian primary motor cortex		12
13	Bayesian analysis of trinomial data in behavioral experiments and its application to human studies of general anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011, 2011, 4705-8</i>	0.9	9
12	Temporal heterodyne detector for multitemporal mode quantum state measurement. <i>Journal of Optics B: Quantum and Semiclassical Optics, 2000, 2, 510-516</i>		9
11	Epigenomic diversity of cortical projection neurons in the mouse brain. <i>Nature, 2021, 598, 167-173</i>	50.4	9
10	Phase diagram for unzipping DNA with long-range interactions. <i>Physical Review E, 2002, 66, 032901</i>	2.4	8
9	An atlas of gene regulatory elements in adult mouse cerebrum. <i>Nature, 2021, 598, 129-136</i>	50.4	8
8	DNA Methylation Atlas of the Mouse Brain at Single-Cell Resolution		6
7	Robust time-varying multivariate coherence estimation: application to electroencephalogram recordings during general anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011, 2011, 4725-8</i>	0.9	4
6	Retinal coding of visual scenes -- repetitive and redundant too?. <i>Neuron, 2005, 46, 357-9</i>	13.9	4
5	Epigenomic Diversity of Cortical Projection Neurons in the Mouse Brain		4
4	Single nucleus multi-omics identifies human cortical cell regulatory genome diversity.. <i>Cell Genomics, 2022, 2,</i>		4
3	Multiple Comparisons and Inappropriate Statistical Testing Lead to Spurious Sex Differences in Gene Expression. <i>Biological Psychiatry, 2022, 91, e1-e2</i>	7.9	3
2	Dnmt3a knockout in excitatory neurons impairs postnatal synapse maturation and is partly compensated by repressive histone modification H3K27me3		2
1	Evolution of regulatory signatures in primate cortical neurons at cell-type resolution. <i>Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28422-28432</i>	11.5	1