

Eran A Mukamel

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.

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	Multiple Comparisons and Inappropriate Statistical Testing Lead to Spurious Sex Differences in Gene Expression. <i>Biological Psychiatry</i> , 2022 , 91, e1-e2	7.9	3
48	Single nucleus multi-omics identifies human cortical cell regulatory genome diversity.. <i>Cell Genomics</i> , 2022 , 2,		4
47	An atlas of gene regulatory elements in adult mouse cerebrum. <i>Nature</i> , 2021 , 598, 129-136	50.4	8
46	A transcriptomic and epigenomic cell atlas of the mouse primary motor cortex. <i>Nature</i> , 2021 , 598, 103-110	50.4	23
45	Comparative cellular analysis of motor cortex in human, marmoset and mouse. <i>Nature</i> , 2021 , 598, 111-119	50.4	31
44	A multimodal cell census and atlas of the mammalian primary motor cortex. <i>Nature</i> , 2021 , 598, 86-102	50.4	44
43	DNA methylation atlas of the mouse brain at single-cell resolution. <i>Nature</i> , 2021 , 598, 120-128	50.4	14
42	Epigenomic diversity of cortical projection neurons in the mouse brain. <i>Nature</i> , 2021 , 598, 167-173	50.4	9
41	Single-Cell Sequencing of Brain Cell Transcriptomes and Epigenomes. <i>Neuron</i> , 2021 , 109, 11-26	13.9	31
40	Comprehensive analysis of single cell ATAC-seq data with SnapATAC. <i>Nature Communications</i> , 2021 , 12, 1337	17.4	61
39	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</i> , 2020 , 117, 28422-28432	11.5	1
38	Maternal immune activation impairs cognitive flexibility and alters transcription in frontal cortex. <i>Neurobiology of Disease</i> , 2019 , 125, 211-218	7.5	21
37	Perspectives on defining cell types in the brain. <i>Current Opinion in Neurobiology</i> , 2019 , 56, 61-68	7.6	22
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	A transient cortical state with sleep-like sensory responses precedes emergence from general anesthesia in humans. <i>ELife</i> , 2018 , 7,	8.9	13
34	A unique role for DNA (hydroxy)methylation in epigenetic regulation of human inhibitory neurons. <i>Science Advances</i> , 2018 , 4, eaau6190	14.3	46
33	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

32	Single-cell methylomes identify neuronal subtypes and regulatory elements in mammalian cortex. <i>Science</i> , 2017 , 357, 600-604	33.3	279
31	Epigenomic landscapes of retinal rods and cones. <i>ELife</i> , 2016 , 5, e11613	8.9	83
30	Epigenomic Signatures of Neuronal Diversity in the Mammalian Brain. <i>Neuron</i> , 2015 , 86, 1369-84	13.9	430
29	Disruption of mGluR5 in parvalbumin-positive interneurons induces core features of neurodevelopmental disorders. <i>Molecular Psychiatry</i> , 2015 , 20, 1161-72	15.1	52
28	Turning over DNA methylation in the mind. <i>Frontiers in Neuroscience</i> , 2015 , 9, 252	5.1	43
27	Human body epigenome maps reveal noncanonical DNA methylation variation. <i>Nature</i> , 2015 , 523, 212-6	50.4	442
26	A transition in brain state during propofol-induced unconsciousness. <i>Journal of Neuroscience</i> , 2014 , 34, 839-45	6.6	82
25	Global epigenomic reconfiguration during mammalian brain development. <i>Science</i> , 2013 , 341, 1237905	33.3	1283
24	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
23	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
22	Statistical deconvolution for superresolution fluorescence microscopy. <i>Biophysical Journal</i> , 2012 , 102, 2391-400	2.9	129
21	Unified resolution bounds for conventional and stochastic localization fluorescence microscopy. <i>Physical Review Letters</i> , 2012 , 109, 168102	7.4	26
20	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
19	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</i> , 2011 , 2011, 4705-8	0.9	4
18	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</i> , 2011 , 2011, 4705-8	0.9	9
17	Motor behavior activates Bergmann glial networks. <i>Neuron</i> , 2009 , 62, 400-12	13.9	220
16	Automated analysis of cellular signals from large-scale calcium imaging data. <i>Neuron</i> , 2009 , 63, 747-60	13.9	443
15	Advances in light microscopy for neuroscience. <i>Annual Review of Neuroscience</i> , 2009 , 32, 435-506	17	217

14	High-speed, miniaturized fluorescence microscopy in freely moving mice. <i>Nature Methods</i> , 2008 , 5, 935-8	21.6	289
13	Lock-and-key mechanisms of cerebellar memory recall based on rebound currents. <i>Journal of Neurophysiology</i> , 2008 , 100, 2328-47	3.2	29
12	Retinal coding of visual scenes -- repetitive and redundant too?. <i>Neuron</i> , 2005 , 46, 357-9	13.9	4
11	Phase diagram for unzipping DNA with long-range interactions. <i>Physical Review E</i> , 2002 , 66, 032901	2.4	8
10	Temporal heterodyne detector for multitemporal mode quantum state measurement. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2000 , 2, 510-516		9
9	Epigenomic Diversity of Cortical Projection Neurons in the Mouse Brain		4
8	Dnmt3a knockout in excitatory neurons impairs postnatal synapse maturation and is partly compensated by repressive histone modification H3K27me3		2
7	Single nucleus multi-omics links human cortical cell regulatory genome diversity to disease risk variants		23
6	An integrated transcriptomic and epigenomic atlas of mouse primary motor cortex cell types		23
5	Evolution of cellular diversity in primary motor cortex of human, marmoset monkey, and mouse		33
4	DNA Methylation Atlas of the Mouse Brain at Single-Cell Resolution		6
3	An Atlas of Gene Regulatory Elements in Adult Mouse Cerebrum		15
2	A multimodal cell census and atlas of the mammalian primary motor cortex		12
1	SnapATAC: A Comprehensive Analysis Package for Single Cell ATAC-seq		48