

Eran A Mukamel

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

8,716
citations

172386
29
h-index

289141
40
g-index

60
all docs

60
docs citations

60
times ranked

12311
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Epigenomic Reconfiguration During Mammalian Brain Development. <i>Science</i> , 2013, 341, 1237905.	6.0	1,609
2	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.	3.3	679
3	Epigenomic Signatures of Neuronal Diversity in the Mammalian Brain. <i>Neuron</i> , 2015, 86, 1369-1384.	3.8	640
4	Automated Analysis of Cellular Signals from Large-Scale Calcium Imaging Data. <i>Neuron</i> , 2009, 63, 747-760.	3.8	616
5	Human body epigenome maps reveal noncanonical DNA methylation variation. <i>Nature</i> , 2015, 523, 212-216.	13.7	605
6	Single-cell methylomes identify neuronal subtypes and regulatory elements in mammalian cortex. <i>Science</i> , 2017, 357, 600-604.	6.0	445
7	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.	3.3	366
8	Comparative cellular analysis of motor cortex in human, marmoset and mouse. <i>Nature</i> , 2021, 598, 111-119.	13.7	361
9	High-speed, miniaturized fluorescence microscopy in freely moving mice. <i>Nature Methods</i> , 2008, 5, 935-938.	9.0	352
10	A multimodal cell census and atlas of the mammalian primary motor cortex. <i>Nature</i> , 2021, 598, 86-102.	13.7	316
11	Motor Behavior Activates Bergmann Glial Networks. <i>Neuron</i> , 2009, 62, 400-412.	3.8	272
12	Advances in Light Microscopy for Neuroscience. <i>Annual Review of Neuroscience</i> , 2009, 32, 435-506.	5.0	269
13	Comprehensive analysis of single cell ATAC-seq data with SnapATAC. <i>Nature Communications</i> , 2021, 12, 1337.	5.8	253
14	A transcriptomic and epigenomic cell atlas of the mouse primary motor cortex. <i>Nature</i> , 2021, 598, 103-110.	13.7	166
15	Statistical Deconvolution for Superresolution Fluorescence Microscopy. <i>Biophysical Journal</i> , 2012, 102, 2391-2400.	0.2	152
16	Single-Cell Sequencing of Brain Cell Transcriptomes and Epigenomes. <i>Neuron</i> , 2021, 109, 11-26.	3.8	135
17	DNA methylation atlas of the mouse brain at single-cell resolution. <i>Nature</i> , 2021, 598, 120-128.	13.7	135
18	A Transition in Brain State during Propofol-Induced Unconsciousness. <i>Journal of Neuroscience</i> , 2014, 34, 839-845.	1.7	115

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19	Environmental enrichment increases transcriptional and epigenetic differentiation between mouse dorsal and ventral dentate gyrus. <i>Nature Communications</i> , 2018, 9, 298.	5.8	106
20	Epigenomic landscapes of retinal rods and cones. <i>ELife</i> , 2016, 5, e11613.	2.8	106
21	An atlas of gene regulatory elements in adult mouse cerebrum. <i>Nature</i> , 2021, 598, 129-136.	13.7	95
22	A unique role for DNA (hydroxy)methylation in epigenetic regulation of human inhibitory neurons. <i>Science Advances</i> , 2018, 4, eaau6190.	4.7	92
23	Disruption of mGluR5 in parvalbumin-positive interneurons induces core features of neurodevelopmental disorders. <i>Molecular Psychiatry</i> , 2015, 20, 1161-1172.	4.1	77
24	Single nucleus multi-omics identifies human cortical cell regulatory genome diversity. <i>Cell Genomics</i> , 2022, 2, 100107.	3.0	58
25	Turning over DNA methylation in the mind. <i>Frontiers in Neuroscience</i> , 2015, 9, 252.	1.4	49
26	Epigenomic diversity of cortical projection neurons in the mouse brain. <i>Nature</i> , 2021, 598, 167-173.	13.7	47
27	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.	3.3	45
28	Perspectives on defining cell types in the brain. <i>Current Opinion in Neurobiology</i> , 2019, 56, 61-68.	2.0	44
29	Maternal immune activation impairs cognitive flexibility and alters transcription in frontal cortex. <i>Neurobiology of Disease</i> , 2019, 125, 211-218.	2.1	41
30	Lock-and-Key Mechanisms of Cerebellar Memory Recall Based on Rebound Currents. <i>Journal of Neurophysiology</i> , 2008, 100, 2328-2347.	0.9	32
31	Phase-based measures of cross-frequency coupling in brain electrical dynamics under general anesthesia. , 2011, 2011, 1981-4.		32
32	Unified Resolution Bounds for Conventional and Stochastic Localization Fluorescence Microscopy. <i>Physical Review Letters</i> , 2012, 109, 168102.	2.9	30
33	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.	3.3	18
34	A transient cortical state with sleep-like sensory responses precedes emergence from general anesthesia in humans. <i>ELife</i> , 2018, 7, .	2.8	18
35	Cellular and genetic drivers of RNA editing variation in the human brain. <i>Nature Communications</i> , 2022, 13, .	5.8	18
36	Temporal heterodyne detector for multitemporal mode quantum state measurement. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2000, 2, 510-516.	1.4	13

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37	Dnmt3a knockout in excitatory neurons impairs postnatal synapse maturation and increases the repressive histone modification H3K27me3. <i>ELife</i> , 0, 11, .	2.8	10
38	Bayesian analysis of trinomial data in behavioral experiments and its application to human studies of general anesthesia. , 2011, 2011, 4705-8.		9
39	Phase diagram for unzipping DNA with long-range interactions. <i>Physical Review E</i> , 2002, 66, 032901.	0.8	8
40	Robust time-varying multivariate coherence estimation: Application to electroencephalogram recordings during general anesthesia. , 2011, 2011, 4725-8.		6
41	Retinal Coding of Visual Scenesâ€” Repetitive and Redundant Too?. <i>Neuron</i> , 2005, 46, 357-359.	3.8	5
42	Multiple Comparisons and Inappropriate Statistical Testing Lead to Spurious Sex Differences in Gene Expression. <i>Biological Psychiatry</i> , 2022, 91, e1-e2.	0.7	4