Eran A Mukamel

List of Publications by Year
in descending order

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42	8,716	172207	288905
papers	citations	29 h-index	40 g-index

60	60	60	12311
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Global Epigenomic Reconfiguration During Mammalian Brain Development. Science, 2013, 341, 1237905.	6.0	1,609
2	Electroencephalogram signatures of loss and recovery of consciousness from propofol. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1142-51.	3.3	679
3	Epigenomic Signatures of Neuronal Diversity in the Mammalian Brain. Neuron, 2015, 86, 1369-1384.	3.8	640
4	Automated Analysis of Cellular Signals from Large-Scale Calcium Imaging Data. Neuron, 2009, 63, 747-760.	3.8	616
5	Human body epigenome maps reveal noncanonical DNA methylation variation. Nature, 2015, 523, 212-216.	13.7	605
6	Single-cell methylomes identify neuronal subtypes and regulatory elements in mammalian cortex. Science, 2017, 357, 600-604.	6.0	445
7	Rapid fragmentation of neuronal networks at the onset of propofol-induced unconsciousness. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E3377-86.	3.3	366
8	Comparative cellular analysis of motor cortex in human, marmoset and mouse. Nature, 2021, 598, 111-119.	13.7	361
9	High-speed, miniaturized fluorescence microscopy in freely moving mice. Nature Methods, 2008, 5, 935-938.	9.0	352
10	A multimodal cell census and atlas of the mammalian primary motor cortex. Nature, 2021, 598, 86-102.	13.7	316
11	Motor Behavior Activates Bergmann Glial Networks. Neuron, 2009, 62, 400-412.	3.8	272
12	Advances in Light Microscopy for Neuroscience. Annual Review of Neuroscience, 2009, 32, 435-506.	5.0	269
13	Comprehensive analysis of single cell ATAC-seq data with SnapATAC. Nature Communications, 2021, 12, 1337.	5.8	253
14	A transcriptomic and epigenomic cell atlas of the mouse primary motor cortex. Nature, 2021, 598, 103-110.	13.7	166
15	Statistical Deconvolution for Superresolution Fluorescence Microscopy. Biophysical Journal, 2012, 102, 2391-2400.	0.2	152
16	Single-Cell Sequencing of Brain Cell Transcriptomes and Epigenomes. Neuron, 2021, 109, 11-26.	3.8	135
17	DNA methylation atlas of the mouse brain at single-cell resolution. Nature, 2021, 598, 120-128.	13.7	135
18	A Transition in Brain State during Propofol-Induced Unconsciousness. Journal of Neuroscience, 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. Nature Communications, 2018, 9, 298.	5.8	106
20	Epigenomic landscapes of retinal rods and cones. ELife, 2016, 5, e11613.	2.8	106
21	An atlas of gene regulatory elements in adult mouse cerebrum. Nature, 2021, 598, 129-136.	13.7	95
22	A unique role for DNA (hydroxy)methylation in epigenetic regulation of human inhibitory neurons. Science Advances, 2018, 4, eaau6190.	4.7	92
23	Disruption of mGluR5 in parvalbumin-positive interneurons induces core features of neurodevelopmental disorders. Molecular Psychiatry, 2015, 20, 1161-1172.	4.1	77
24	Single nucleus multi-omics identifies human cortical cell regulatory genome diversity. Cell Genomics, 2022, 2, 100107.	3.0	58
25	Turning over DNA methylation in the mind. Frontiers in Neuroscience, 2015, 9, 252.	1.4	49
26	Epigenomic diversity of cortical projection neurons in the mouse brain. Nature, 2021, 598, 167-173.	13.7	47
27	Allele-specific non-CG DNA methylation marks domains of active chromatin in female mouse brain. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2882-E2890.	3.3	45
28	Perspectives on defining cell types in the brain. Current Opinion in Neurobiology, 2019, 56, 61-68.	2.0	44
29	Maternal immune activation impairs cognitive flexibility and alters transcription in frontal cortex. Neurobiology of Disease, 2019, 125, 211-218.	2.1	41
30	Lock-and-Key Mechanisms of Cerebellar Memory Recall Based on Rebound Currents. Journal of Neurophysiology, 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. Physical Review Letters, 2012, 109, 168102.	2.9	30
33	Evolution of regulatory signatures in primate cortical neurons at cell-type resolution. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28422-28432.	3.3	18
34	A transient cortical state with sleep-like sensory responses precedes emergence from general anesthesia in humans. ELife, 2018, 7, .	2.8	18
35	Cellular and genetic drivers of RNA editing variation in the human brain. Nature Communications, 2022, 13, .	5.8	18
36	Temporal heterodyne detector for multitemporal mode quantum state measurement. Journal of Optics B: Quantum and Semiclassical Optics, 2000, 2, 510-516.	1.4	13

#	Article	IF	Citations
37	Dnmt3a knockout in excitatory neurons impairs postnatal synapse maturation and increases the repressive histone modification H3K27me3. ELife, 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. Physical Review E, 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?. Neuron, 2005, 46, 357-359.	3.8	5
42	Multiple Comparisons and Inappropriate Statistical Testing Lead to Spurious Sex Differences in Gene Expression. Biological Psychiatry, 2022, 91, e1-e2.	0.7	4