

Hillel Adesnik

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

3,395
citations

361413

20
h-index

526287

27
g-index

46
all docs

46
docs citations

46
times ranked

3780
citing authors

#	ARTICLE	IF	CITATIONS
1	A neural circuit for spatial summation in visual cortex. <i>Nature</i> , 2012, 490, 226-231.	27.8	580
2	Gain control by layer six in cortical circuits of vision. <i>Nature</i> , 2012, 483, 47-52.	27.8	451
3	Lateral competition for cortical space by layer-specific horizontal circuits. <i>Nature</i> , 2010, 464, 1155-1160.	27.8	328
4	Cortical gamma band synchronization through somatostatin interneurons. <i>Nature Neuroscience</i> , 2017, 20, 951-959.	14.8	301
5	Precise multimodal optical control of neural ensemble activity. <i>Nature Neuroscience</i> , 2018, 21, 881-893.	14.8	222
6	Three-dimensional scanless holographic optogenetics with temporal focusing (3D-SHOT). <i>Nature Communications</i> , 2017, 8, 1228.	12.8	168
7	Compressive light-field microscopy for 3D neural activity recording. <i>Optica</i> , 2016, 3, 517.	9.3	146
8	3D computer-generated holography by non-convex optimization. <i>Optica</i> , 2017, 4, 1306.	9.3	143
9	A direct translaminar inhibitory circuit tunes cortical output. <i>Nature Neuroscience</i> , 2015, 18, 1631-1640.	14.8	105
10	Inhibitory Circuits in Cortical Layer 5. <i>Frontiers in Neural Circuits</i> , 2016, 10, 35.	2.8	103
11	Synaptic Mechanisms of Feature Coding in the Visual Cortex of Awake Mice. <i>Neuron</i> , 2017, 95, 1147-1159.e4.	8.1	98
12	Cracking the Function of Layers in the Sensory Cortex. <i>Neuron</i> , 2018, 100, 1028-1043.	8.1	90
13	Complementary networks of cortical somatostatin interneurons enforce layer specific control. <i>ELife</i> , 2019, 8, .	6.0	89
14	Probing neural codes with two-photon holographic optogenetics. <i>Nature Neuroscience</i> , 2021, 24, 1356-1366.	14.8	79
15	Ultrasound activates mechanosensitive TRAAK K ⁺ channels through the lipid membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	76
16	A Comprehensive Optogenetic Pharmacology Toolkit for In Vivo Control of GABA A Receptors and Synaptic Inhibition. <i>Neuron</i> , 2015, 88, 879-891.	8.1	69
17	Surround Integration Organizes a Spatial Map during Active Sensation. <i>Neuron</i> , 2017, 94, 1220-1233.e5.	8.1	51
18	High-performance microbial opsins for spatially and temporally precise perturbations of large neuronal networks. <i>Neuron</i> , 2022, 110, 1139-1155.e6.	8.1	47

#	ARTICLE	IF	CITATIONS
19	Layer-specific excitation/inhibition balances during neuronal synchronization in the visual cortex. <i>Journal of Physiology</i> , 2018, 596, 1639-1657.	2.9	45
20	A neural circuit for gamma-band coherence across the retinotopic map in mouse visual cortex. <i>ELife</i> , 2018, 7, .	6.0	39
21	Superficial Layers Suppress the Deep Layers to Fine-tune Cortical Coding. <i>Journal of Neuroscience</i> , 2019, 39, 2052-2064.	3.6	36
22	Synthesis of a comprehensive population code for contextual features in the awake sensory cortex. <i>ELife</i> , 2021, 10, .	6.0	16
23	Bayesian methods for event analysis of intracellular currents. <i>Journal of Neuroscience Methods</i> , 2016, 269, 21-32.	2.5	14
24	Spatial integration during active tactile sensation drives orientation perception. <i>Neuron</i> , 2021, 109, 1707-1720.e7.	8.1	8
25	Three-dimensional multi-site random access photostimulation (3D-MAP). <i>ELife</i> , 2022, 11, .	6.0	8
26	Cell Type-Specific Optogenetic Dissection of Brain Rhythms. <i>Trends in Neurosciences</i> , 2018, 41, 122-124.	8.6	7
27	Precision multidimensional neural population code recovered from single intracellular recordings. <i>Scientific Reports</i> , 2020, 10, 15997.	3.3	2
28	NDNF interneurons, Spartans of the cortical column: Small in number, strong in impact. <i>Neuron</i> , 2021, 109, 2041-2042.	8.1	0