

Joshua T Trachtenberg

List of Publications by Year in descending order

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39
papers

7,646
citations

201385

27
h-index

301761

39
g-index

42
all docs

42
docs citations

42
times ranked

8706
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-term in vivo imaging of experience-dependent synaptic plasticity in adult cortex. <i>Nature</i> , 2002, 420, 788-794.	13.7	1,706
2	Transient and Persistent Dendritic Spines in the Neocortex In Vivo. <i>Neuron</i> , 2005, 45, 279-291.	3.8	1,003
3	Long-term, high-resolution imaging in the mouse neocortex through a chronic cranial window. <i>Nature Protocols</i> , 2009, 4, 1128-1144.	5.5	894
4	Absence of CNTNAP2 Leads to Epilepsy, Neuronal Migration Abnormalities, and Core Autism-Related Deficits. <i>Cell</i> , 2011, 147, 235-246.	13.5	870
5	A disinhibitory microcircuit initiates critical-period plasticity in the visual cortex. <i>Nature</i> , 2013, 501, 543-546.	13.7	353
6	Schwann cell apoptosis at developing neuromuscular junctions is regulated by glial growth factor. <i>Nature</i> , 1996, 379, 174-177.	13.7	274
7	Schwann cells induce and guide sprouting and reinnervation of neuromuscular junctions. <i>Trends in Neurosciences</i> , 1996, 19, 280-285.	4.2	218
8	The Critical Period for Ocular Dominance Plasticity in the Ferret's Visual Cortex. <i>Journal of Neuroscience</i> , 1999, 19, 6965-6978.	1.7	214
9	Rapid Anatomical Plasticity of Horizontal Connections in the Developing Visual Cortex. <i>Journal of Neuroscience</i> , 2001, 21, 3476-3482.	1.7	197
10	Encoding and storage of spatial information in the retrosplenial cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8661-8666.	3.3	189
11	Hotspots of dendritic spine turnover facilitate clustered spine addition and learning and memory. <i>Nature Communications</i> , 2018, 9, 422.	5.8	131
12	Experience-dependent binocular competition in the visual cortex begins at eye opening. <i>Nature Neuroscience</i> , 2007, 10, 370-375.	7.1	129
13	Enhanced Spatial Resolution During Locomotion and Heightened Attention in Mouse Primary Visual Cortex. <i>Journal of Neuroscience</i> , 2016, 36, 6382-6392.	1.7	122
14	Laminar and compartmental regulation of dendritic growth in mature cortex. <i>Nature Neuroscience</i> , 2009, 12, 116-118.	7.1	111
15	Nerve Terminal Withdrawal from Rat Neuromuscular Junctions Induced by Neuregulin and Schwann Cells. <i>Journal of Neuroscience</i> , 1997, 17, 6243-6255.	1.7	105
16	Spatial clustering of tuning in mouse primary visual cortex. <i>Nature Communications</i> , 2016, 7, 12270.	5.8	102
17	Fast-spiking interneurons have an initial orientation bias that is lost with vision. <i>Nature Neuroscience</i> , 2011, 14, 1121-1123.	7.1	97
18	Glial Growth Factor Rescues Schwann Cells of Mechanoreceptors from Denervation-Induced Apoptosis. <i>Journal of Neuroscience</i> , 1997, 17, 6697-6706.	1.7	92

#	ARTICLE	IF	CITATIONS
19	Associative Fear Learning Enhances Sparse Network Coding in Primary Sensory Cortex. <i>Neuron</i> , 2012, 75, 121-132.	3.8	92
20	An inhibitory pullâ€“push circuit in frontal cortex. <i>Nature Neuroscience</i> , 2017, 20, 389-392.	7.1	90
21	Î-Catenin Is Required for the Maintenance of Neural Structure and Function in Mature Cortex In Vivo. <i>Neuron</i> , 2009, 64, 320-327.	3.8	79
22	A protocol for preparing GFP-labeled neurons previously imaged in vivo and in slice preparations for light and electron microscopic analysis. <i>Nature Protocols</i> , 2009, 4, 1145-1156.	5.5	71
23	The Autism Related Protein Contactin-Associated Protein-Like 2 (CNTNAP2) Stabilizes New Spines: An In Vivo Mouse Study. <i>PLoS ONE</i> , 2015, 10, e0125633.	1.1	68
24	Neuromodulatory control of localized dendritic spiking in critical period cortex. <i>Nature</i> , 2019, 567, 100-104.	13.7	66
25	MDL Constrained 3-D Grayscale Skeletonization Algorithm for Automated Extraction of Dendrites and Spines from Fluorescence Confocal Images. <i>Neuroinformatics</i> , 2009, 7, 213-232.	1.5	53
26	Vision-dependent specification of cell types and function in the developing cortex. <i>Cell</i> , 2022, 185, 311-327.e24.	13.5	45
27	Competition, inhibition, and critical periods of cortical plasticity. <i>Current Opinion in Neurobiology</i> , 2015, 35, 44-48.	2.0	39
28	Local tuning biases in mouse primary visual cortex. <i>Journal of Neurophysiology</i> , 2018, 120, 274-280.	0.9	33
29	Ipsilateral Eye Cortical Maps Are Uniquely Sensitive to Binocular Plasticity. <i>Journal of Neurophysiology</i> , 2009, 101, 855-861.	0.9	32
30	Overexpression of calcium-activated potassium channels underlies cortical dysfunction in a model of <i>PTEN</i>-associated autism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18297-18302.	3.3	32
31	Vision Changes the Cellular Composition of Binocular Circuitry during the Critical Period. <i>Neuron</i> , 2020, 108, 735-747.e6.	3.8	32
32	State-Dependent Subnetworks of Parvalbumin-Expressing Interneurons in Neocortex. <i>Cell Reports</i> , 2019, 26, 2282-2288.e3.	2.9	28
33	Pattern and not magnitude of neural activity determines dendritic spine stability in awake mice. <i>Nature Neuroscience</i> , 2012, 15, 949-951.	7.1	20
34	Vision is required for the formation of binocular neurons prior to the classical critical period. <i>Current Biology</i> , 2021, 31, 4305-4313.e5.	1.8	15
35	The Development of Receptive Field Tuning Properties in Mouse Binocular Primary Visual Cortex. <i>Journal of Neuroscience</i> , 2022, 42, 3546-3556.	1.7	11
36	Pten and EphB4 regulate the establishment of perisomatic inhibition in mouse visual cortex. <i>Nature Communications</i> , 2016, 7, 12829.	5.8	10

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37	The Refinement of Ipsilateral Eye Retinotopic Maps Is Increased by Removing the Dominant Contralateral Eye in Adult Mice. PLoS ONE, 2010, 5, e9925.	1.1	9
38	Parvalbumin Interneurons: All Forest, No Trees. Neuron, 2015, 87, 247-248.	3.8	6
39	Long-Term, High-Resolution Imaging in the Neocortex In Vivo. Cold Spring Harbor Protocols, 2008, 2008, pdb.prot4902.	0.2	4