

Mark HÃ¼bner

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

6,546
citations

172457

29
h-index

276875

41
g-index

46
all docs

46
docs citations

46
times ranked

6367
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-term, high-resolution imaging in the mouse neocortex through a chronic cranial window. <i>Nature Protocols</i> , 2009, 4, 1128-1144.	12.0	894
2	Sensorimotor Mismatch Signals in Primary Visual Cortex of the Behaving Mouse. <i>Neuron</i> , 2012, 74, 809-815.	8.1	572
3	Experience leaves a lasting structural trace in cortical circuits. <i>Nature</i> , 2009, 457, 313-317.	27.8	462
4	A genetically encoded calcium indicator for chronic in vivo two-photon imaging. <i>Nature Methods</i> , 2008, 5, 805-811.	19.0	458
5	Critical-Period Plasticity in the Visual Cortex. <i>Annual Review of Neuroscience</i> , 2012, 35, 309-330.	10.7	329
6	Spatial Relationships among Three Columnar Systems in Cat Area 17. <i>Journal of Neuroscience</i> , 1997, 17, 9270-9284.	3.6	309
7	Synaptic Scaling and Homeostatic Plasticity in the Mouse Visual Cortex In Vivo. <i>Neuron</i> , 2013, 80, 327-334.	8.1	301
8	Homeostatic Regulation of Eye-Specific Responses in Visual Cortex during Ocular Dominance Plasticity. <i>Neuron</i> , 2007, 54, 961-972.	8.1	298
9	Highly ordered arrangement of single neurons in orientation pinwheels. <i>Nature</i> , 2006, 442, 925-928.	27.8	293
10	Massive restructuring of neuronal circuits during functional reorganization of adult visual cortex. <i>Nature Neuroscience</i> , 2008, 11, 1162-1167.	14.8	275
11	Mapping Retinotopic Structure in Mouse Visual Cortex with Optical Imaging. <i>Journal of Neuroscience</i> , 2002, 22, 6549-6559.	3.6	210
12	Loss of Sensory Input Causes Rapid Structural Changes of Inhibitory Neurons in Adult Mouse Visual Cortex. <i>Neuron</i> , 2011, 71, 869-882.	8.1	210
13	Prior experience enhances plasticity in adult visual cortex. <i>Nature Neuroscience</i> , 2006, 9, 127-132.	14.8	189
14	Neuronal Plasticity: Beyond the Critical Period. <i>Cell</i> , 2014, 159, 727-737.	28.9	186
15	Cell-specific restoration of stimulus preference after monocular deprivation in the visual cortex. <i>Science</i> , 2016, 352, 1319-1322.	12.6	173
16	Visual cortex maps are optimized for uniform coverage. <i>Nature Neuroscience</i> , 2000, 3, 822-826.	14.8	149
17	Spatio-temporal frequency domains and their relation to cytochrome oxidase staining in cat visual cortex. <i>Nature</i> , 1997, 385, 529-533.	27.8	142
18	Pairing-Induced Changes of Orientation Maps in Cat Visual Cortex. <i>Neuron</i> , 2001, 32, 325-337.	8.1	129

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19	Variance and invariance of neuronal long-term representations. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160161.	4.0	108
20	Searching for Engrams. <i>Neuron</i> , 2010, 67, 363-371.	8.1	87
21	Lateral geniculate neurons projecting to primary visual cortex show ocular dominance plasticity in adult mice. <i>Nature Neuroscience</i> , 2017, 20, 1708-1714.	14.8	87
22	Mouse visual cortex. <i>Current Opinion in Neurobiology</i> , 2003, 13, 413-420.	4.2	71
23	Altered Visual Experience Induces Instructive Changes of Orientation Preference in Mouse Visual Cortex. <i>Journal of Neuroscience</i> , 2011, 31, 13911-13920.	3.6	69
24	PirB regulates a structural substrate for cortical plasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20771-20776.	7.1	67
25	Mouse prefrontal cortex represents learned rules for categorization. <i>Nature</i> , 2021, 593, 411-417.	27.8	61
26	Area-Specific Mapping of Binocular Disparity across Mouse Visual Cortex. <i>Current Biology</i> , 2019, 29, 2954-2960.e5.	3.9	58
27	Relationships between dendritic morphology and cytochrome oxidase compartments in monkey striate cortex. <i>Journal of Comparative Neurology</i> , 1992, 324, 67-80.	1.6	51
28	Selective Persistence of Sensorimotor Mismatch Signals in Visual Cortex of Behaving Alzheimer's Disease Mice. <i>Current Biology</i> , 2016, 26, 956-964.	3.9	49
29	Two-photon Calcium Imaging in Mice Navigating a Virtual Reality Environment. <i>Journal of Visualized Experiments</i> , 2014, , e50885.	0.3	48
30	Food and water restriction lead to differential learning behaviors in a head-fixed two-choice visual discrimination task for mice. <i>PLoS ONE</i> , 2018, 13, e0204066.	2.5	42
31	Mouse visual cortex areas represent perceptual and semantic features of learned visual categories. <i>Nature Neuroscience</i> , 2021, 24, 1441-1451.	14.8	31
32	High-yield in vitro recordings from neurons functionally characterized in vivo. <i>Nature Protocols</i> , 2018, 13, 1275-1293.	12.0	24
33	Limited functional convergence of eye-specific inputs in the retinogeniculate pathway of the mouse. <i>Neuron</i> , 2021, 109, 2457-2468.e12.	8.1	23
34	Disparity Sensitivity and Binocular Integration in Mouse Visual Cortex Areas. <i>Journal of Neuroscience</i> , 2020, 40, 8883-8899.	3.6	21
35	Benchmarking miniaturized microscopy against two-photon calcium imaging using single-cell orientation tuning in mouse visual cortex. <i>PLoS ONE</i> , 2019, 14, e0214954.	2.5	20
36	Orientation and direction tuning align with dendritic morphology and spatial connectivity in mouse visual cortex. <i>Current Biology</i> , 2022, 32, 1743-1753.e7.	3.9	15

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37	A Molecular Correlate of Ocular Dominance Columns in the Developing Mammalian Visual Cortex. <i>Cerebral Cortex</i> , 2013, 23, 2531-2541.	2.9	13
38	Visual Cortex: Two-Photon Excitement. <i>Current Biology</i> , 2005, 15, R205-R208.	3.9	7
39	Spaced training enhances memory and prefrontal ensemble stability in mice. <i>Current Biology</i> , 2021, 31, 4052-4061.e6.	3.9	6
40	Visual Cortex: Binocular Matchmaking. <i>Current Biology</i> , 2021, 31, R197-R199.	3.9	4
41	Visual development: Making maps in the dark. <i>Current Biology</i> , 1998, 8, R342-R345.	3.9	3
42	A Division of Light and Dark in the Visual Cortex. <i>Neuron</i> , 2015, 88, 624-626.	8.1	0