Mark HÃ¼bener

List of Publications by Year
in descending order

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	Orientation and direction tuning align with dendritic morphology and spatial connectivity in mouse visual cortex. Current Biology, 2022, 32, 1743-1753.e7.	3.9	15
2	Visual Cortex: Binocular Matchmaking. Current Biology, 2021, 31, R197-R199.	3.9	4
3	Mouse prefrontal cortex represents learned rules for categorization. Nature, 2021, 593, 411-417.	27.8	61
4	Limited functional convergence of eye-specific inputs in the retinogeniculate pathway of the mouse. Neuron, 2021, 109, 2457-2468.e12.	8.1	23
5	Mouse visual cortex areas represent perceptual and semantic features of learned visual categories. Nature Neuroscience, 2021, 24, 1441-1451.	14.8	31
6	Spaced training enhances memory and prefrontal ensemble stability in mice. Current Biology, 2021, 31, 4052-4061.e6.	3.9	6
7	Disparity Sensitivity and Binocular Integration in Mouse Visual Cortex Areas. Journal of Neuroscience, 2020, 40, 8883-8899.	3.6	21
8	Area-Specific Mapping of Binocular Disparity across Mouse Visual Cortex. Current Biology, 2019, 29, 2954-2960.e5.	3.9	58
9	Benchmarking miniaturized microscopy against two-photon calcium imaging using single-cell orientation tuning in mouse visual cortex. PLoS ONE, 2019, 14, e0214954.	2.5	20
10	Food and water restriction lead to differential learning behaviors in a head-fixed two-choice visual discrimination task for mice. PLoS ONE, 2018, 13, e0204066.	2.5	42
11	High-yield in vitro recordings from neurons functionally characterized in vivo. Nature Protocols, 2018, 13, 1275-1293.	12.0	24
12	Variance and invariance of neuronal long-term representations. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160161.	4.0	108
13	Lateral geniculate neurons projecting to primary visual cortex show ocular dominance plasticity in adult mice. Nature Neuroscience, 2017, 20, 1708-1714.	14.8	87
14	Selective Persistence of Sensorimotor Mismatch Signals in Visual Cortex of Behaving Alzheimerâ€™s Disease Mice. Current Biology, 2016, 26, 956-964.	3.9	49
15	Cell-specific restoration of stimulus preference after monocular deprivation in the visual cortex. Science, 2016, 352, 1319-1322.	12.6	173
16	A Division of Light and Dark in the Visual Cortex. Neuron, 2015, 88, 624-626.	8.1	0
17	Two-photon Calcium Imaging in Mice Navigating a Virtual Reality Environment. Journal of Visualized Experiments, 2014, , e50885.	0.3	48
18	Neuronal Plasticity: Beyond the Critical Period. Cell, 2014, 159, 727-737.	28.9	186

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19	Synaptic Scaling and Homeostatic Plasticity in the Mouse Visual Cortex InÂVivo. Neuron, 2013, 80, 327-334.	8.1	301
20	A Molecular Correlate of Ocular Dominance Columns in the Developing Mammalian Visual Cortex. Cerebral Cortex, 2013, 23, 2531-2541.	2.9	13
21	PirB regulates a structural substrate for cortical plasticity. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20771-20776.	7.1	67
22	Sensorimotor Mismatch Signals in Primary Visual Cortex of the Behaving Mouse. Neuron, 2012, 74, 809-815.	8.1	572
23	Critical-Period Plasticity in the Visual Cortex. Annual Review of Neuroscience, 2012, 35, 309-330.	10.7	329
24	Altered Visual Experience Induces Instructive Changes of Orientation Preference in Mouse Visual Cortex. Journal of Neuroscience, 2011, 31, 13911-13920.	3.6	69
25	Loss of Sensory Input Causes Rapid Structural Changes of Inhibitory Neurons in Adult Mouse Visual Cortex. Neuron, 2011, 71, 869-882.	8.1	210
26	Searching for Engrams. Neuron, 2010, 67, 363-371.	8.1	87
27	Experience leaves a lasting structural trace in cortical circuits. Nature, 2009, 457, 313-317.	27.8	462
28	Long-term, high-resolution imaging in the mouse neocortex through a chronic cranial window. Nature Protocols, 2009, 4, 1128-1144.	12.0	894
29	A genetically encoded calcium indicator for chronic in vivo two-photon imaging. Nature Methods, 2008, 5, 805-811.	19.0	458
30	Massive restructuring of neuronal circuits during functional reorganization of adult visual cortex. Nature Neuroscience, 2008, 11, 1162-1167.	14.8	275
31	Homeostatic Regulation of Eye-Specific Responses in Visual Cortex during Ocular Dominance Plasticity. Neuron, 2007, 54, 961-972.	8.1	298
32	Prior experience enhances plasticity in adult visual cortex. Nature Neuroscience, 2006, 9, 127-132.	14.8	189
33	Highly ordered arrangement of single neurons in orientation pinwheels. Nature, 2006, 442, 925-928.	27.8	293
34	Visual Cortex: Two-Photon Excitement. Current Biology, 2005, 15, R205-R208.	3.9	7
35	Mouse visual cortex. Current Opinion in Neurobiology, 2003, 13, 413-420.	4.2	71
36	Mapping Retinotopic Structure in Mouse Visual Cortex with Optical Imaging. Journal of Neuroscience, 2002, 22, 6549-6559.	3.6	210

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37	Pairing-Induced Changes of Orientation Maps in Cat Visual Cortex. Neuron, 2001, 32, 325-337.	8.1	129
38	Visual cortex maps are optimized for uniform coverage. Nature Neuroscience, 2000, 3, 822-826.	14.8	149
39	Visual development: Making maps in the dark. Current Biology, 1998, 8, R342-R345.	3.9	3
40	Spatioâ€“temporal frequency domains and their relation to cytochrome oxidase staining in cat visual cortex. Nature, 1997, 385, 529-533.	27.8	142
41	Spatial Relationships among Three Columnar Systems in Cat Area 17. Journal of Neuroscience, 1997, 17, 9270-9284.	3.6	309
42	Relationships between dendritic morphology and cytochrome oxidase compartments in monkey striate cortex. Journal of Comparative Neurology, 1992, 324, 67-80.	1.6	51