

Markus Meister

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

17,234
citations

32410

55
h-index

87275

74
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94
all docs

94
docs citations

94
times ranked

14528
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning, fast and slow. <i>Current Opinion in Neurobiology</i> , 2022, 75, 102555.	2.0	13
2	Mice in a labyrinth show rapid learning, sudden insight, and efficient exploration. <i>ELife</i> , 2021, 10, .	2.8	48
3	Fine-Grained System Identification of Nonlinear Neural Circuits. , 2021, , .		2
4	Electrode pooling can boost the yield of extracellular recordings with switchable silicon probes. <i>Nature Communications</i> , 2021, 12, 5245.	5.8	4
5	Functional Architecture of Motion Direction in the Mouse Superior Colliculus. <i>Current Biology</i> , 2020, 30, 3304-3315.e4.	1.8	36
6	The sifting of visual information in the superior colliculus. <i>ELife</i> , 2020, 9, .	2.8	77
7	Functional diversity among sensory neurons from efficient coding principles. <i>PLoS Computational Biology</i> , 2019, 15, e1007476.	1.5	27
8	Augmented reality powers a cognitive assistant for the blind. <i>ELife</i> , 2018, 7, .	2.8	36
9	Neural Circuit Inference from Function to Structure. <i>Current Biology</i> , 2017, 27, 189-198.	1.8	66
10	Four alpha ganglion cell types in mouse retina: Function, structure, and molecular signatures. <i>PLoS ONE</i> , 2017, 12, e0180091.	1.1	194
11	Physical limits to magnetogenetics. <i>ELife</i> , 2016, 5, .	2.8	147
12	Reconstruction of genetically identified neurons imaged by serial-section electron microscopy. <i>ELife</i> , 2016, 5, .	2.8	75
13	A neuronal circuit for colour vision based on rod-cone opponency. <i>Nature</i> , 2016, 532, 236-239.	13.7	167
14	Ventromedial hypothalamic neurons control a defensive emotion state. <i>ELife</i> , 2015, 4, .	2.8	926
15	Neurodata Without Borders: Creating a Common Data Format for Neurophysiology. <i>Neuron</i> , 2015, 88, 629-634.	3.8	171
16	Orientation columns in the mouse superior colliculus. <i>Nature</i> , 2015, 519, 229-232.	13.7	104
17	On the dimensionality of odor space. <i>ELife</i> , 2015, 4, e07865.	2.8	94
18	Benefits of Pathway Splitting in Sensory Coding. <i>Journal of Neuroscience</i> , 2014, 34, 12127-12144.	1.7	114

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19	The Projective Field of Retinal Bipolar Cells and Its Modulation by Visual Context. <i>Neuron</i> , 2014, 81, 641-652.	3.8	40
20	Rapid Innate Defensive Responses of Mice to Looming Visual Stimuli. <i>Current Biology</i> , 2013, 23, 2011-2015.	1.8	447
21	Dynamical Adaptation in Photoreceptors. <i>PLoS Computational Biology</i> , 2013, 9, e1003289.	1.5	48
22	Nonlinear Dynamics Support a Linear Population Code in a Retinal Target-Tracking Circuit. <i>Journal of Neuroscience</i> , 2013, 33, 16971-16982.	1.7	35
23	Computing Complex Visual Features with Retinal Spike Times. <i>PLoS ONE</i> , 2013, 8, e53063.	1.1	38
24	Rats maintain a binocular field centered on the horizon. <i>F1000Research</i> , 2013, 2, 176.	0.8	13
25	Decorrelation and efficient coding by retinal ganglion cells. <i>Nature Neuroscience</i> , 2012, 15, 628-635.	7.1	183
26	The most numerous ganglion cell type of the mouse retina is a selective feature detector. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E2391-8.	3.3	256
27	Divergence of visual channels in the inner retina. <i>Nature Neuroscience</i> , 2012, 15, 1581-1589.	7.1	89
28	A wireless multi-channel neural amplifier for freely moving animals. <i>Nature Neuroscience</i> , 2011, 14, 263-269.	7.1	161
29	Retinal Ganglion Cells with Distinct Directional Preferences Differ in Molecular Identity, Structure, and Central Projections. <i>Journal of Neuroscience</i> , 2011, 31, 7753-7762.	1.7	300
30	Age-Related Alterations in Neurons of the Mouse Retina. <i>Journal of Neuroscience</i> , 2011, 31, 16033-16044.	1.7	149
31	The Projective Field of a Retinal Amacrine Cell. <i>Journal of Neuroscience</i> , 2011, 31, 8595-8604.	1.7	30
32	Bayesian model of dynamic image stabilization in the visual system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 19525-19530.	3.3	61
33	Laminar Restriction of Retinal Ganglion Cell Dendrites and Axons: Subtype-Specific Developmental Patterns Revealed with Transgenic Markers. <i>Journal of Neuroscience</i> , 2010, 30, 1452-1462.	1.7	257
34	Eye Smarter than Scientists Believed: Neural Computations in Circuits of the Retina. <i>Neuron</i> , 2010, 65, 150-164.	3.8	577
35	Precision and diversity in an odor map on the olfactory bulb. <i>Nature Neuroscience</i> , 2009, 12, 210-220.	7.1	290
36	Neural Encoding of Rapidly Fluctuating Odors. <i>Neuron</i> , 2009, 61, 570-586.	3.8	114

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37	Modeling convergent ON and OFF pathways in the early visual system. <i>Biological Cybernetics</i> , 2008, 99, 263-278.	0.6	52
38	Molecular identification of a retinal cell type that responds to upward motion. <i>Nature</i> , 2008, 452, 478-482.	13.7	361
39	Rapid Neural Coding in the Retina with Relative Spike Latencies. <i>Science</i> , 2008, 319, 1108-1111.	6.0	534
40	Rat Olfactory Bulb Mitral Cells Receive Sparse Glomerular Inputs. <i>Neuron</i> , 2008, 59, 802-814.	3.8	152
41	β -Protocadherins regulate neuronal survival but are dispensable for circuit formation in retina. <i>Development (Cambridge)</i> , 2008, 135, 4141-4151.	1.2	139
42	A Retinal Circuit That Computes Object Motion. <i>Journal of Neuroscience</i> , 2008, 28, 6807-6817.	1.7	170
43	LED Arrays as Cost Effective and Efficient Light Sources for Widefield Microscopy. <i>PLoS ONE</i> , 2008, 3, e2146.	1.1	66
44	A Neural Computation for Visual Acuity in the Presence of Eye Movements. <i>PLoS Biology</i> , 2007, 5, e331.	2.6	42
45	Retinal Adaptation to Object Motion. <i>Neuron</i> , 2007, 56, 689-700.	3.8	65
46	Retinal Ganglion Cells Can Rapidly Change Polarity from Off to On. <i>PLoS Biology</i> , 2007, 5, e65.	2.6	99
47	Local Retinal Circuits of Melanopsin-Containing Ganglion Cells Identified by Transsynaptic Viral Tracing. <i>Current Biology</i> , 2007, 17, 981-988.	1.8	165
48	Dynamic predictive coding by the retina. <i>Nature</i> , 2005, 436, 71-77.	13.7	422
49	Retina versus Cortex. <i>Neuron</i> , 2004, 42, 5-7.	3.8	35
50	Segregation of object and background motion in the retina. <i>Nature</i> , 2003, 423, 401-408.	13.7	440
51	Multineuronal Firing Patterns in the Signal from Eye to Brain. <i>Neuron</i> , 2003, 37, 499-511.	3.8	151
52	Genetically engineered mice with an additional class of cone photoreceptors: Implications for the evolution of color vision. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 11706-11711.	3.3	98
53	Loss of Sex Discrimination and Male-Male Aggression in Mice Deficient for TRP2. <i>Science</i> , 2002, 295, 1493-1500.	6.0	774
54	Fast and Slow Contrast Adaptation in Retinal Circuitry. <i>Neuron</i> , 2002, 36, 909-919.	3.8	460

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55	Predicting Every Spike. <i>Neuron</i> , 2001, 30, 803-817.	3.8	310
56	Tuning and Topography in an Odor Map on the Rat Olfactory Bulb. <i>Journal of Neuroscience</i> , 2001, 21, 1351-1360.	1.7	365
57	Responses of Vomeronasal Neurons to Natural Stimuli. <i>Science</i> , 2000, 289, 1569-1572.	6.0	257
58	How to measure the information gained from one symbol. <i>Network: Computation in Neural Systems</i> , 1999, 10, 325-340.	2.2	95
59	Anticipation of moving stimuli by the retina. <i>Nature</i> , 1999, 398, 334-338.	13.7	439
60	The Neural Code of the Retina. <i>Neuron</i> , 1999, 22, 435-450.	3.8	389
61	A Novel Signaling Pathway from Rod Photoreceptors to Ganglion Cells in Mammalian Retina. <i>Neuron</i> , 1998, 21, 481-493.	3.8	258
62	Mechanisms of Concerted Firing among Retinal Ganglion Cells. <i>Neuron</i> , 1998, 20, 527-539.	3.8	231
63	Refractoriness and Neural Precision. <i>Journal of Neuroscience</i> , 1998, 18, 2200-2211.	1.7	328
64	Synchronous Period-Doubling in Flicker Vision of Salamander and Man. <i>Journal of Neurophysiology</i> , 1998, 79, 1869-1878.	0.9	75
65	The Light Response of Retinal Ganglion Cells Is Truncated by a Displaced Amacrine Circuit. <i>Neuron</i> , 1997, 18, 637-650.	3.8	126
66	Decoding Visual Information From a Population of Retinal Ganglion Cells. <i>Journal of Neurophysiology</i> , 1997, 78, 2336-2350.	0.9	336
67	Adaptation of retinal processing to image contrast and spatial scale. <i>Nature</i> , 1997, 386, 69-73.	13.7	467
68	Individual neurons dissociated from rat suprachiasmatic nucleus express independently phased circadian firing rhythms. <i>Neuron</i> , 1995, 14, 697-706.	3.8	1,325
69	Multi-neuronal signals from the retina: acquisition and analysis. <i>Journal of Neuroscience Methods</i> , 1994, 51, 95-106.	1.3	368
70	Transient period of correlated bursting activity during development of the mammalian retina. <i>Neuron</i> , 1993, 11, 923-938.	3.8	530
71	The retinal readout array. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1991, 310, 389-394.	0.7	16
72	Synchronous bursts of action potentials in ganglion cells of the developing mammalian retina. <i>Science</i> , 1991, 252, 939-943.	6.0	1,108

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73	The proton flux through the bacterial flagellar motor. <i>Cell</i> , 1987, 49, 643-650.	13.5	189
74	Rapid rotation of flagellar bundles in swimming bacteria. <i>Nature</i> , 1987, 325, 637-640.	13.7	233
75	Constraints on flagellar rotation. <i>Journal of Molecular Biology</i> , 1985, 184, 645-656.	2.0	68
76	How to measure the information gained from one symbol. , 0, .		69