

Michael D Mauk

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

32
papers

2,782
citations

22
h-index

32
g-index

32
ext. papers

3,044
ext. citations

6.4
avg, IF

4.98
L-index

#	Paper	IF	Citations
32	No neuron is an island: Homeostatic plasticity and over-constraint in a neural circuit. <i>Neurobiology of Learning and Memory</i> , 2020 , 170, 106982	3.1	0
31	Cerebellar Processing Common to Delay and Trace Eyelid Conditioning. <i>Journal of Neuroscience</i> , 2018 , 38, 7221-7236	6.6	9
30	Medial Auditory Thalamus Is Necessary for Expression of Auditory Trace Eyelid Conditioning. <i>Journal of Neuroscience</i> , 2018 , 38, 8831-8844	6.6	3
29	A cerebellar adaptation to uncertain inputs. <i>Science Advances</i> , 2018 , 4, eaap9660	14.3	7
28	Machine Learning Capabilities of a Simulated Cerebellum. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017 , 28, 510-522	10.3	16
27	Links Between Single-Trial Changes and Learning Rate in Eyelid Conditioning. <i>Cerebellum</i> , 2016 , 15, 112-115	4.5	10
26	Systematic variation of acquisition rate in delay eyelid conditioning. <i>Behavioral Neuroscience</i> , 2016 , 130, 553-62	2.1	2
25	Relating cerebellar purkinje cell activity to the timing and amplitude of conditioned eyelid responses. <i>Journal of Neuroscience</i> , 2015 , 35, 7813-32	6.6	60
24	Using a million cell simulation of the cerebellum: network scaling and task generality. <i>Neural Networks</i> , 2013 , 47, 95-102	9.1	33
23	Persistent activity in a cortical-to-subcortical circuit: bridging the temporal gap in trace eyelid conditioning. <i>Journal of Neurophysiology</i> , 2012 , 107, 50-64	3.2	71
22	Multiple sites of extinction for a single learned response. <i>Journal of Neurophysiology</i> , 2012 , 107, 226-38	3.2	16
21	A subtraction mechanism of temporal coding in cerebellar cortex. <i>Journal of Neuroscience</i> , 2011 , 31, 2026-34	3.4	36
20	Cerebellar cortex contributions to the expression and timing of conditioned eyelid responses. <i>Journal of Neurophysiology</i> , 2010 , 103, 2039-49	3.2	41
19	Temporal patterns of inputs to cerebellum necessary and sufficient for trace eyelid conditioning. <i>Journal of Neurophysiology</i> , 2010 , 104, 627-40	3.2	43
18	Eyelid conditioning to a target amplitude: adding how much to whether and when. <i>Journal of Neuroscience</i> , 2010 , 30, 14145-52	6.6	10
17	A decremting form of plasticity apparent in cerebellar learning. <i>Journal of Neuroscience</i> , 2010 , 30, 16993-7003	6.6	16
16	Interactions between prefrontal cortex and cerebellum revealed by trace eyelid conditioning. <i>Learning and Memory</i> , 2009 , 16, 86-95	2.8	111

15	Learning-induced plasticity in deep cerebellar nucleus. <i>Journal of Neuroscience</i> , 2006 , 26, 12656-63	6.6	121
14	Covariation of alternative measures of responding in rabbit (<i>Oryctolagus cuniculus</i>) eyeblink conditioning during acquisition training and tone generalization. <i>Behavioral Neuroscience</i> , 2003 , 117, 292-303	2.1	42
13	Stimulus generalization of conditioned eyelid responses produced without cerebellar cortex: implications for plasticity in the cerebellar nuclei. <i>Learning and Memory</i> , 2003 , 10, 346-54	2.8	33
12	Parallels between cerebellum- and amygdala-dependent conditioning. <i>Nature Reviews Neuroscience</i> , 2002 , 3, 122-31	13.5	196
11	Latent acquisition of timed responses in cerebellar cortex. <i>Journal of Neuroscience</i> , 2001 , 21, 682-90	6.6	90
10	Computer simulation of cerebellar information processing. <i>Nature Neuroscience</i> , 2000 , 3 Suppl, 1205-11	25.5	265
9	Mechanisms of cerebellar learning suggested by eyelid conditioning. <i>Current Opinion in Neurobiology</i> , 2000 , 10, 717-24	7.6	153
8	Timing mechanisms in the cerebellum: testing predictions of a large-scale computer simulation. <i>Journal of Neuroscience</i> , 2000 , 20, 5516-25	6.6	276
7	Inhibitory control of LTP and LTD: stability of synapse strength. <i>Journal of Neurophysiology</i> , 1999 , 81, 1559-66	3.2	90
6	Cerebellar cortex lesions prevent acquisition of conditioned eyelid responses. <i>Journal of Neuroscience</i> , 1999 , 19, 10940-7	6.6	122
5	Simulations of cerebellar motor learning: computational analysis of plasticity at the mossy fiber to deep nucleus synapse. <i>Journal of Neuroscience</i> , 1999 , 19, 7140-51	6.6	133
4	Pharmacological analysis of cerebellar contributions to the timing and expression of conditioned eyelid responses. <i>Neuropharmacology</i> , 1998 , 37, 471-80	5.5	155
3	Roles of cerebellar cortex and nuclei in motor learning: contradictions or clues?. <i>Neuron</i> , 1997 , 18, 343-6	13.9	119
2	Neural Network Model of the Cerebellum: Temporal Discrimination and the Timing of Motor Responses. <i>Neural Computation</i> , 1994 , 6, 38-55	2.9	269
1	Retention of classically conditioned eyelid responses following acute decerebration. <i>Brain Research</i> , 1987 , 403, 89-95	3.7	234