Michael D Mauk

List of Publications by Citations

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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	2,782	22	32
papers	citations	h-index	g-index
32	**3,044**	**6.4**	**4.98**
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
32	Timing mechanisms in the cerebellum: testing predictions of a large-scale computer simulation. *Journal of Neuroscience*, **2000**, 20, 5516-25	6.6	276
31	Neural Network Model of the Cerebellum: Temporal Discrimination and the Timing of Motor Responses. *Neural Computation*, **1994**, 6, 38-55	2.9	269
30	Computer simulation of cerebellar information processing. *Nature Neuroscience*, **2000**, 3 Suppl, 1205-11	25.5	265
29	Retention of classically conditioned eyelid responses following acute decerebration. *Brain Research*, **1987**, 403, 89-95	3.7	234
28	Parallels between cerebellum- and amygdala-dependent conditioning. *Nature Reviews Neuroscience*, **2002**, 3, 122-31	13.5	196
27	Pharmacological analysis of cerebellar contributions to the timing and expression of conditioned eyelid responses. *Neuropharmacology*, **1998**, 37, 471-80	5.5	155
26	Mechanisms of cerebellar learning suggested by eyelid conditioning. *Current Opinion in Neurobiology*, **2000**, 10, 717-24	7.6	153
25	Simulations of cerebellar motor learning: computational analysis of plasticity at the mossy fiber to deep nucleus synapse. *Journal of Neuroscience*, **1999**, 19, 7140-51	6.6	133
24	Cerebellar cortex lesions prevent acquisition of conditioned eyelid responses. *Journal of Neuroscience*, **1999**, 19, 10940-7	6.6	122
23	Learning-induced plasticity in deep cerebellar nucleus. *Journal of Neuroscience*, **2006**, 26, 12656-63	6.6	121
22	Roles of cerebellar cortex and nuclei in motor learning: contradictions or clues?. *Neuron*, **1997**, 18, 343-6	13.9	119
21	Interactions between prefrontal cortex and cerebellum revealed by trace eyelid conditioning. *Learning and Memory*, **2009**, 16, 86-95	2.8	111
20	Latent acquisition of timed responses in cerebellar cortex. *Journal of Neuroscience*, **2001**, 21, 682-90	6.6	90
19	Inhibitory control of LTP and LTD: stability of synapse strength. *Journal of Neurophysiology*, **1999**, 81, 1559-66	3.2	90
18	Persistent activity in a cortical-to-subcortical circuit: bridging the temporal gap in trace eyelid conditioning. *Journal of Neurophysiology*, **2012**, 107, 50-64	3.2	71
17	Relating cerebellar purkinje cell activity to the timing and amplitude of conditioned eyelid responses. *Journal of Neuroscience*, **2015**, 35, 7813-32	6.6	60
16	Temporal patterns of inputs to cerebellum necessary and sufficient for trace eyelid conditioning. *Journal of Neurophysiology*, **2010**, 104, 627-40	3.2	43

15	Covariation of alternative measures of responding in rabbit (Oryctolagus cuniculus) eyeblink conditioning during acquisition training and tone generalization. *Behavioral Neuroscience*, **2003**, 117, 292-303	2.1	42
14	Cerebellar cortex contributions to the expression and timing of conditioned eyelid responses. *Journal of Neurophysiology*, **2010**, 103, 2039-49	3.2	41
13	A subtraction mechanism of temporal coding in cerebellar cortex. *Journal of Neuroscience*, **2011**, 31, 2025-34	6.6	36
12	Using a million cell simulation of the cerebellum: network scaling and task generality. *Neural Networks*, **2013**, 47, 95-102	9.1	33
11	Stimulus generalization of conditioned eyelid responses produced without cerebellar cortex: implications for plasticity in the cerebellar nuclei. *Learning and Memory*, **2003**, 10, 346-54	2.8	33
10	Machine Learning Capabilities of a Simulated Cerebellum. *IEEE Transactions on Neural Networks and Learning Systems*, **2017**, 28, 510-522	10.3	16
9	Multiple sites of extinction for a single learned response. *Journal of Neurophysiology*, **2012**, 107, 226-38	3.2	16
8	A decrementing form of plasticity apparent in cerebellar learning. *Journal of Neuroscience*, **2010**, 30, 16993-7003	6.6	16
7	Links Between Single-Trial Changes and Learning Rate in Eyelid Conditioning. *Cerebellum*, **2016**, 15, 112-21	4.3	10
6	Eyelid conditioning to a target amplitude: adding how much to whether and when. *Journal of Neuroscience*, **2010**, 30, 14145-52	6.6	10
5	Cerebellar Processing Common to Delay and Trace Eyelid Conditioning. *Journal of Neuroscience*, **2018**, 38, 7221-7236	6.6	9
4	A cerebellar adaptation to uncertain inputs. *Science Advances*, **2018**, 4, eaap9660	14.3	7
3	Medial Auditory Thalamus Is Necessary for Expression of Auditory Trace Eyelid Conditioning. *Journal of Neuroscience*, **2018**, 38, 8831-8844	6.6	3
2	Systematic variation of acquisition rate in delay eyelid conditioning. *Behavioral Neuroscience*, **2016**, 130, 553-62	2.1	2
1	No neuron is an island: Homeostatic plasticity and over-constraint in a neural circuit. *Neurobiology of Learning and Memory*, **2020**, 170, 106982	3.1	0