

Javier F Medina

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

3,945
citations

201674

27
h-index

302126

39
g-index

48
all docs

48
docs citations

48
times ranked

2584
citing authors

#	ARTICLE	IF	CITATIONS
1	Timing Mechanisms in the Cerebellum: Testing Predictions of a Large-Scale Computer Simulation. <i>Journal of Neuroscience</i> , 2000, 20, 5516-5525.	3.6	327
2	Computer simulation of cerebellar information processing. <i>Nature Neuroscience</i> , 2000, 3, 1205-1211.	14.8	316
3	Links from complex spikes to local plasticity and motor learning in the cerebellum of awake-behaving monkeys. <i>Nature Neuroscience</i> , 2008, 11, 1185-1192.	14.8	250
4	Parallels between cerebellum- and amygdala-dependent conditioning. <i>Nature Reviews Neuroscience</i> , 2002, 3, 122-131.	10.2	229
5	Inhibition of climbing fibres is a signal for the extinction of conditioned eyelid responses. <i>Nature</i> , 2002, 416, 330-333.	27.8	227
6	Precise Control of Movement Kinematics by Optogenetic Inhibition of Purkinje Cell Activity. <i>Journal of Neuroscience</i> , 2014, 34, 2321-2330.	3.6	214
7	A Mechanism for Savings in the Cerebellum. <i>Journal of Neuroscience</i> , 2001, 21, 4081-4089.	3.6	204
8	Climbing fibers encode a temporal-difference prediction error during cerebellar learning in mice. <i>Nature Neuroscience</i> , 2015, 18, 1798-1803.	14.8	193
9	Cerebellar granule cells acquire a widespread predictive feedback signal during motor learning. <i>Nature Neuroscience</i> , 2017, 20, 727-734.	14.8	182
10	Mechanisms of cerebellar learning suggested by eyelid conditioning. <i>Current Opinion in Neurobiology</i> , 2000, 10, 717-724.	4.2	178
11	Computational Principles of Supervised Learning in the Cerebellum. <i>Annual Review of Neuroscience</i> , 2018, 41, 233-253.	10.7	174
12	Cerebellar-Dependent Expression of Motor Learning during Eyeblink Conditioning in Head-Fixed Mice. <i>Journal of Neuroscience</i> , 2014, 34, 14845-14853.	3.6	155
13	Simulations of Cerebellar Motor Learning: Computational Analysis of Plasticity at the Mossy Fiber to Deep Nucleus Synapse. <i>Journal of Neuroscience</i> , 1999, 19, 7140-7151.	3.6	152
14	Variation, Signal, and Noise in Cerebellar Sensory-Motor Processing for Smooth-Pursuit Eye Movements. <i>Journal of Neuroscience</i> , 2007, 27, 6832-6842.	3.6	106
15	Chromatin remodeling inactivates activity genes and regulates neural coding. <i>Science</i> , 2016, 353, 300-305.	12.6	96
16	Dynamic modulation of activity in cerebellar nuclei neurons during pavlovian eyeblink conditioning in mice. <i>ELife</i> , 2017, 6, .	6.0	90
17	The multiple roles of Purkinje cells in sensori-motor calibration: to predict, teach and command. <i>Current Opinion in Neurobiology</i> , 2011, 21, 616-622.	4.2	80
18	The Representation of Time for Motor Learning. <i>Neuron</i> , 2005, 45, 157-167.	8.1	79

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19	Does Cerebellar LTD Mediate Motor Learning? Toward a Resolution without a Smoking Gun. <i>Neuron</i> , 1998, 20, 359-362.	8.1	76
20	Beyond "all-or-nothing" climbing fibers: graded representation of teaching signals in Purkinje cells. <i>Frontiers in Neural Circuits</i> , 2013, 7, 115.	2.8	68
21	Coding of stimulus strength via analog calcium signals in Purkinje cell dendrites of awake mice. <i>ELife</i> , 2014, 3, e03663.	6.0	67
22	Encoding and Decoding of Learned Smooth-Pursuit Eye Movements in the Floccular Complex of the Monkey Cerebellum. <i>Journal of Neurophysiology</i> , 2009, 102, 2039-2054.	1.8	62
23	Sensory-Driven Enhancement of Calcium Signals in Individual Purkinje Cell Dendrites of Awake Mice. <i>Cell Reports</i> , 2014, 6, 792-798.	6.4	56
24	Adaptive Timing of Motor Output in the Mouse: The Role of Movement Oscillations in Eyelid Conditioning. <i>Frontiers in Integrative Neuroscience</i> , 2011, 5, 72.	2.1	51
25	Signal, Noise, and Variation in Neural and Sensory-Motor Latency. <i>Neuron</i> , 2016, 90, 165-176.	8.1	43
26	Mechanisms for motor timing in the cerebellar cortex. <i>Current Opinion in Behavioral Sciences</i> , 2016, 8, 53-59.	3.9	38
27	How and why neural and motor variation are related. <i>Current Opinion in Neurobiology</i> , 2015, 33, 110-116.	4.2	31
28	A cerebello-olivary signal for negative prediction error is sufficient to cause extinction of associative motor learning. <i>Nature Neuroscience</i> , 2020, 23, 1550-1554.	14.8	26
29	Teaching the cerebellum about reward. <i>Nature Neuroscience</i> , 2019, 22, 846-848.	14.8	21
30	P-sort: an open-source software for cerebellar neurophysiology. <i>Journal of Neurophysiology</i> , 2021, 126, 1055-1075.	1.8	19
31	Action-based organization of a cerebellar module specialized for predictive control of multiple body parts. <i>Neuron</i> , 2021, 109, 2981-2994.e5.	8.1	17
32	The Neural Code for Motor Control in the Cerebellum and Oculomotor Brainstem. <i>ENeuro</i> , 2014, 1, ENEURO.0004-14.2014.	1.9	17
33	Acquisition of Neural Learning in Cerebellum and Cerebral Cortex for Smooth Pursuit Eye Movements. <i>Journal of Neuroscience</i> , 2011, 31, 12716-12726.	3.6	14
34	Deleting <i>Mecp2</i> from the cerebellum rather than its neuronal subtypes causes a delay in motor learning in mice. <i>ELife</i> , 2021, 10, .	6.0	14
35	A Recipe for Bidirectional Motor Learning: Using Inhibition to Cook Plasticity in the Vestibular Nuclei. <i>Neuron</i> , 2010, 68, 607-609.	8.1	12
36	Single-Unit Extracellular Recording from the Cerebellum During Eyelink Conditioning in Head-Fixed Mice. <i>NeuroMethods</i> , 2018, 134, 39-71.	0.3	12

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37	Immediate and after effects of transcranial direct-current stimulation in the mouse primary somatosensory cortex. <i>Scientific Reports</i> , 2021, 11, 3123.	3.3	12
38	Using Animal Models to Improve the Design and Application of Transcranial Electrical Stimulation in Humans. <i>Current Behavioral Neuroscience Reports</i> , 2018, 5, 125-135.	1.3	9
39	Bidirectional short-term plasticity during single-trial learning of cerebellar-driven eyelid movements in mice. <i>Neurobiology of Learning and Memory</i> , 2020, 170, 107097.	1.9	6
40	Dendritic Inhibition by Shh Signaling-Dependent Stellate Cell Pool Is Critical for Motor Learning. <i>Journal of Neuroscience</i> , 2022, 42, 5130-5143.	3.6	2