

Frédéric Brocard

List of Publications by Year in descending order

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29
papers

1,170
citations

516710

16
h-index

642732

23
g-index

34
all docs

34
docs citations

34
times ranked

950
citing authors

#	ARTICLE	IF	CITATIONS
1	The Persistent Sodium Current Generates Pacemaker Activities in the Central Pattern Generator for Locomotion and Regulates the Locomotor Rhythm. <i>Journal of Neuroscience</i> , 2008, 28, 8577-8589.	3.6	150
2	Perinatal development of lumbar motoneurons and their inputs in the rat. <i>Brain Research Bulletin</i> , 2000, 53, 635-647.	3.0	141
3	Initiation of locomotion in lampreys. <i>Brain Research Reviews</i> , 2008, 57, 172-182.	9.0	141
4	Contribution of Persistent Sodium Current to Locomotor Pattern Generation in Neonatal Rats. <i>Journal of Neurophysiology</i> , 2007, 98, 613-628.	1.8	99
5	Activity-Dependent Changes in Extracellular Ca ²⁺ and K ⁺ Reveal Pacemakers in the Spinal Locomotor-Related Network. <i>Neuron</i> , 2013, 77, 1047-1054.	8.1	97
6	Do Pacemakers Drive the Central Pattern Generator for Locomotion in Mammals?. <i>Neuroscientist</i> , 2010, 16, 139-155.	3.5	75
7	Cleavage of Na ⁺ channels by calpain increases persistent Na ⁺ current and promotes spasticity after spinal cord injury. <i>Nature Medicine</i> , 2016, 22, 404-411.	30.7	68
8	Emergence of Intrinsic Bursting in Trigeminal Sensory Neurons Parallels the Acquisition of Mastication in Weanling Rats. <i>Journal of Neurophysiology</i> , 2006, 96, 2410-2424.	1.8	62
9	Activation of 5-HT _{2A} Receptors Restores KCC2 Function and Reduces Neuropathic Pain after Spinal Cord Injury. <i>Neuroscience</i> , 2018, 387, 48-57.	2.3	53
10	Sodium-Mediated Plateau Potentials in Lumbar Motoneurons of Neonatal Rats. <i>Journal of Neuroscience</i> , 2013, 33, 15626-15641.	3.6	43
11	Differential Plasticity of the GABAergic and Glycinergic Synaptic Transmission to Rat Lumbar Motoneurons after Spinal Cord Injury. <i>Journal of Neuroscience</i> , 2010, 30, 3358-3369.	3.6	38
12	Prochlorperazine Increases KCC2 Function and Reduces Spasticity after Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2017, 34, 3397-3406.	3.4	33
13	Kv1.2 Channels Promote Nonlinear Spiking Motoneurons for Powering Up Locomotion. <i>Cell Reports</i> , 2018, 22, 3315-3327.	6.4	27
14	The M-current works in tandem with the persistent sodium current to set the speed of locomotion. <i>PLoS Biology</i> , 2020, 18, e3000738.	5.6	26
15	Antidromic discharges of dorsal root afferents in the neonatal rat. <i>Journal of Physiology (Paris)</i> , 1999, 93, 359-367.	2.1	24
16	Calpain fosters the hyperexcitability of motoneurons after spinal cord injury and leads to spasticity. <i>ELife</i> , 2019, 8, .	6.0	23
17	New channel lineup in spinal circuits governing locomotion. <i>Current Opinion in Physiology</i> , 2019, 8, 14-22.	1.8	14
18	Therapeutic Role of Neuregulin 1 Type III in SOD1-Linked Amyotrophic Lateral Sclerosis. <i>Neurotherapeutics</i> , 2020, 17, 1048-1060.	4.4	13

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19	Sensitization of neonatal rat lumbar motoneuron by the inflammatory pain mediator bradykinin. <i>ELife</i> , 2015, 4, e06195.	6.0	11
20	Alteration of glycinergic receptor expression in lumbar spinal motoneurons is involved in the mechanisms underlying spasticity after spinal cord injury. <i>Journal of Chemical Neuroanatomy</i> , 2020, 106, 101787.	2.1	9
21	Trpm5 channels encode bistability of spinal motoneurons and ensure motor control of hindlimbs in mice. <i>Nature Communications</i> , 2021, 12, 6815.	12.8	8
22	Altered action potential waveform and shorter axonal initial segment in hiPSC-derived motor neurons with mutations in VRK1. <i>Neurobiology of Disease</i> , 2022, 164, 105609.	4.4	3
23	The M-current works in tandem with the persistent sodium current to set the speed of locomotion. , 2020, 18, e3000738.		0
24	The M-current works in tandem with the persistent sodium current to set the speed of locomotion. , 2020, 18, e3000738.		0
25	The M-current works in tandem with the persistent sodium current to set the speed of locomotion. , 2020, 18, e3000738.		0
26	The M-current works in tandem with the persistent sodium current to set the speed of locomotion. , 2020, 18, e3000738.		0
27	The M-current works in tandem with the persistent sodium current to set the speed of locomotion. , 2020, 18, e3000738.		0
28	The M-current works in tandem with the persistent sodium current to set the speed of locomotion. , 2020, 18, e3000738.		0
29	Calpain role in the pathophysiology of spasticity after spinal cord injury. , 2022, , 249-261.		0