Giuliano Taccola

List of Publications by Year
in descending order

48	841	471061 17	525886 27
papers	citations	h-index	g-index

49	49	49	809
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Newborn Analgesia Mediated by Oxytocin during Delivery. Frontiers in Cellular Neuroscience, 2011, 5, 3.	1.8	102
2	ERG Conductance Expression Modulates the Excitability of Ventral Horn GABAergic Interneurons That Control Rhythmic Oscillations in the Developing Mouse Spinal Cord. Journal of Neuroscience, 2007, 27, 919-928.	1.7	57
3	Kainate and metabolic perturbation mimicking spinal injury differentially contribute to early damage of locomotor networks in the in vitro neonatal rat spinal cord. Neuroscience, 2008, 155, 538-555.	1.1	55
4	Tuning and playing a motor rhythm: how metabotropic glutamate receptors orchestrate generation of motor patterns in the mammalian central nervous system. Journal of Physiology, 2006, 572, 323-334.	1.3	54
5	Neuromodulation of the neural circuits controlling the lower urinary tract. Experimental Neurology, 2016, 285, 182-189.	2.0	34
6	Modulation of rhythmic patterns and cumulative depolarization by group I metabotropic glutamate receptors in the neonatal rat spinal cord in vitro. European Journal of Neuroscience, 2004, 19, 533-541.	1.2	32
7	Schwann cell migration and neurite outgrowth are influenced by media conditioned by epineurial fibroblasts. Neuroscience, 2013, 252, 144-153.	1.1	28
8	Complications of epidural spinal stimulation: lessons from the past and alternatives for the future. Spinal Cord, 2020, 58, 1049-1059.	0.9	28
9	The locomotor central pattern generator of the rat spinal cord in vitro is optimally activated by noisy dorsal root waveforms. Journal of Neurophysiology, 2011, 106, 872-884.	0.9	26
10	Fictive locomotor patterns generated by tetraethylammonium application to the neonatal rat spinal cord in vitro. Neuroscience, 2006, 137, 659-670.	1.1	24
11	Distinct subtypes of group I metabotropic glutamate receptors on rat spinal neurons mediate complex facilitatory and inhibitory effects. European Journal of Neuroscience, 2003, 18, 1873-1883.	1.2	23
12	Anoxic persistence of lumbar respiratory bursts and block of lumbar locomotion in newborn rat brainstemâ€“spinal cords. Journal of Physiology, 2007, 585, 507-524.	1.3	23
13	Dynamics of early locomotor network dysfunction following a focal lesion in an in vitro model of spinal injury. European Journal of Neuroscience, 2010, 31, 60-78.	1.2	23
14	Using EMG to deliver lumbar dynamic electrical stimulation to facilitate cortico-spinal excitability. Brain Stimulation, 2020, 13, 20-34.	0.7	21
15	Staggered multi-site low-frequency electrostimulation effectively induces locomotor patterns in the isolated rat spinal cord. Spinal Cord, 2016, 54, 93-101.	0.9	18
16	Oscillatory Circuits Underlying Locomotor Networks in the Rat Spinal Cord. Critical Reviews in Neurobiology, 2006, 18, 25-36.	3.3	18
17	Effect of metabotropic glutamate receptor activity on rhythmic discharges of the neonatal rat spinal cord in vitro. Experimental Brain Research, 2003, 153, 388-393.	0.7	17
18	Low micromolar concentrations of 4-aminopyridine facilitate fictive locomotion expressed by the rat spinal cord in vitro. Neuroscience, 2004, 126, 511-520.	1.1	16

#	Article	IF	Citations
19	Characteristics of the electrical oscillations evoked by 4-aminopyridine on dorsal root fibers and their relation to fictive locomotor patterns in the rat spinal cord in vitro. Neuroscience, 2005, 132, 1187-1197.	1.1	15
20	Coapplication of noisy patterned electrical stimuli and NMDA plus serotonin facilitates fictive locomotion in the rat spinal cord. Journal of Neurophysiology, 2012, 108, 2977-2990.	0.9	15
21	A1 adenosine receptor modulation of chemically and electrically evoked lumbar locomotor network activity in isolated newborn rat spinal cords. Neuroscience, 2012, 222, 191-204.	1.1	15
22	Nanomolar Oxytocin Synergizes with Weak Electrical Afferent Stimulation to Activate the Locomotor CPG of the Rat Spinal Cord In Vitro. PLoS ONE, 2014, 9, e92967.	1.1	15
23	Role of group II and III metabotropic glutamate receptors in rhythmic patterns of the neonatal rat spinal cord in vitro. Experimental Brain Research, 2004, 156, 495-504.	0.7	14
24	AMPA-evoked acetylcholine release from cultured spinal cord motoneurons and its inhibition by GABA and glycine. Neuroscience, 2001, 106, 183-191.	1.1	13
25	Early spread of hyperexcitability to caudal dorsal horn networks after a chemically-induced lesion of the rat spinal cord in vitro. Neuroscience, 2013, 229, 155-163.	1.1	13
26	Acute neuromodulation restores spinally-induced motor responses after severe spinal cord injury. Experimental Neurology, 2020, 327, 113246.	2.0	13
27	Extracellular stimulation with human â€œnoisyâ€•electromyographic patterns facilitates myotube activity. Journal of Muscle Research and Cell Motility, 2015, 36, 349-357.	0.9	12
28	A new model of nerve injury in the rat reveals a role of Regulator of G protein Signaling 4 in tactile hypersensitivity. Experimental Neurology, 2016, 286, 1-11.	2.0	12
29	GABAergic Mechanisms Can Redress the Tilted Balance between Excitation and Inhibition in Damaged Spinal Networks. Molecular Neurobiology, 2021, 58, 3769-3786.	1.9	12
30	Multilevel Analysis of Locomotion in Immature Preparations Suggests Innovative Strategies to Reactivate Stepping after Spinal Cord Injury. Current Pharmaceutical Design, 2017, 23, 1764-1777.	0.9	9
31	Activation of group I metabotropic glutamate receptors depresses recurrent inhibition of motoneurons in the neonatal rat spinal cord in vitro. Experimental Brain Research, 2005, 164, 406-410.	0.7	7
32	Differential modulation by tetraethylammonium of the processes underlying network bursting in the neonatal rat spinal cord in vitro. Neuroscience, 2007, 146, 1906-1917.	1.1	7
33	Deconstructing locomotor networks with experimental injury to define their membership. Annals of the New York Academy of Sciences, 2010, 1198, 242-251.	1.8	7
34	Rat locomotor spinal circuits in vitro are activated by electrical stimulation with noisy waveforms sampled from human gait. Physiological Reports, 2013, 1, e00025.	0.7	7
35	Histamine modulates spinal motoneurons and locomotor circuits. Journal of Neuroscience Research, 2018, 96, 889-900.	1.3	7
36	A â€œnoisyâ€•electrical stimulation protocol favors muscle regeneration in vitro through release of endogenous ATP. Experimental Cell Research, 2019, 381, 121-128.	1.2	6

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37	Selective Antagonism of A1 Adenosinergic Receptors Strengthens the Neuromodulation of the Sensorimotor Network During Epidural Spinal Stimulation. Frontiers in Systems Neuroscience, 2020, 14, 44.	1.2	6
38	GABAA and strychnine-sensitive glycine receptors modulate N-methyl-d-aspartateâ€“evoked acetylcholine release from rat spinal motoneurons: A possible role in neuroprotection. Neuroscience, 2008, 154, 1517-1524.	1.1	5
39	Acute Spinal Cord Injury In Vitro: Insight into Basic Mechanisms. Neuromethods, 2013, , 39-62.	0.2	5
40	Two Distinct Stimulus Frequencies Delivered Simultaneously at Low Intensity Generate Robust Locomotor Patterns. Neuromodulation, 2016, 19, 563-575.	0.4	5
41	Electrical Stimulation Able to Trigger Locomotor Spinal Circuits Also Induces Dorsal Horn Activity. Neuromodulation, 2016, 19, 38-46.	0.4	4
42	Afferent Input Induced by Rhythmic Limb Movement Modulates Spinal Neuronal Circuits in an Innovative Robotic In Vitro Preparation. Neuroscience, 2018, 394, 44-59.	1.1	4
43	A Biomimetic, SoC-Based Neural Stimulator for Novel Arbitrary-Waveform Stimulation Protocols. Frontiers in Neuroscience, 2021, 15, 697731.	1.4	4
44	An epidural stimulating interface unveils the intrinsic modulation of electrically motor evoked potentials in behaving rats. Journal of Neurophysiology, 2021, 126, 1635-1641.	0.9	3
45	Stochastic spinal neuromodulation tunes the intrinsic logic of spinal neural networks. Experimental Neurology, 2022, 355, 114138.	2.0	3
46	Electrophysiological effects of 4-aminopyridine on fictive locomotor activity of the rat spinal cord in vitro. Acta Neurochirurgica Supplementum, 2005, 93, 151-154.	0.5	2
47	Neuromodulation and restoration of motor responses after severe spinal cord injury. , 2022, , 51-63.		2
48	Histamine H3 Receptors Expressed in Ventral Horns Modulate Spinal Motor Output. Cellular and Molecular Neurobiology, 2021, 41, 185-190.	1.7	0