Michel A Lemay

List of Publications by Year
in descending order

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23 papers	666 citations	840119 11 h-index	713013 21 g-index
24 all docs	24 docs citations	24 times ranked	881 citing authors

#	Article	IF	Citations
1	Neurotrophic Factors Promote and Enhance Locomotor Recovery in Untrained Spinalized Cats. Journal of Neurophysiology, 2007, 98, 1988-1996.	0.9	101
2	Afferent control of locomotor CPG: insights from a simple neuromechanical model. Annals of the New York Academy of Sciences, 2010, 1198, 21-34.	1.8	93
3	Rehabilitation Strategies after Spinal Cord Injury: Inquiry into the Mechanisms of Success and Failure. Journal of Neurotrauma, 2017, 34, 1841-1857.	1.7	76
4	YAP/TAZ initiate and maintain Schwann cell myelination. ELife, 2017, 6, .	2.8	66
5	Motoneuronal and muscle synergies involved in cat hindlimb control during fictive and real locomotion: a comparison study. Journal of Neurophysiology, 2012, 107, 2057-2071.	0.9	63
6	Plasticity in ascending long propriospinal and descending supraspinal pathways in chronic cervical spinal cord injured rats. Frontiers in Physiology, 2012, 3, 330.	1.3	42
7	Role of Spared Pathways in Locomotor Recovery after Body-Weight-Supported Treadmill Training in Contused Rats. Journal of Neurotrauma, 2011, 28, 2405-2416.	1.7	41
8	Epidural Electrical Stimulation: A Review of Plasticity Mechanisms That Are Hypothesized to Underlie Enhanced Recovery From Spinal Cord Injury With Stimulation. Frontiers in Molecular Neuroscience, 2020, 13, 163.	1.4	32
9	Proprioceptive neuropathy affects normalization of the H-reflex by exercise after spinal cord injury. Experimental Neurology, 2010, 221, 198-205.	2.0	30
10	Either Brain-Derived Neurotrophic Factor or Neurotrophin-3 Only Neurotrophin-Producing Grafts Promote Locomotor Recovery in Untrained Spinalized Cats. Neurorehabilitation and Neural Repair, 2015, 29, 90-100.	1.4	23
11	Pharmacologically inhibiting kinesin-5 activity with monastrol promotes axonal regeneration following spinal cord injury. Experimental Neurology, 2015, 263, 172-176.	2.0	19
12	Population spatiotemporal dynamics of spinal intermediate zone interneurons during air-stepping in adult spinal cats. Journal of Neurophysiology, 2011, 106, 1943-1953.	0.9	14
13	Preferred locomotor phase of activity of lumbar interneurons during air-stepping in subchronic spinal cats. Journal of Neurophysiology, 2011, 105, 1011-1022.	0.9	13
14	Transplants of Neurotrophin-Producing Autologous Fibroblasts Promote Recovery of Treadmill Stepping in the Acute, Sub-Chronic, and Chronic Spinal Cat. Journal of Neurotrauma, 2017, 34, 1858-1872.	1.7	12
15	Effects of bioengineered scaffold loaded with neurotrophins and locomotor training in restoring H-reflex responses after spinal cord injury. Experimental Brain Research, 2018, 236, 3077-3084.	0.7	11
16	Adaptation to slope in locomotor-trained spinal cats with intact and self-reinnervated lateral gastrocnemius and soleus muscles. Journal of Neurophysiology, 2020, 123, 70-89.	0.9	7
17	Intrathecal Delivery of BDNF Into the Lumbar Cistern Re-Engages Locomotor Stepping After Spinal Cord Injury. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 2459-2467.	2.7	6
18	Characterization and validation of a split belt treadmill for measuring hindlimb ground-reaction forces in able-bodied and spinalized felines. Journal of Neuroscience Methods, 2017, 278, 65-75.	1.3	4

#	Article	IF	Citations
19	Acute bladder decentralization in hound dogs: Preliminary results of effects on hypogastric nerve electroneurograms and detrusor pressure responses to spinal root and hypogastric nerve stimulation. PLoS ONE, 2019, 14, e0215036.	1.1	4
20	Toward Assessing the Functional Connectivity of Spinal Neurons. Frontiers in Neural Circuits, 2022, 16, 839521.	1.4	4
21	Single-cell and ensemble activity of lumbar intermediate and ventral horn interneurons in the spinal air-stepping cat. Journal of Neurophysiology, 2022, 127, 99-115.	0.9	3
22	A MATLAB application for automated H-Reflex measurements and analyses. Biomedical Signal Processing and Control, 2021, 66, 102448.	3.5	2
23	A versatile system for neuromuscular stimulation and recording in the mouse model using a lightweight magnetically coupled headmount. Journal of Neuroscience Methods, 2021, 362, 109319.	1.3	0