Mihai Moldovan

List of Publications by Year
in descending order

68 papers	1,572 citations	257450 24 h-index	345221 36 g-index
73 all docs	73 docs citations	73 times ranked	1861 citing authors

#	Article	IF	Citations
1	A method to assess the default EEG macrostate and its reactivity to stimulation. Clinical Neurophysiology, 2022, 134, 50-64.	1.5	3
2	Assessing inter-rater reproducibility in MScanFit MUNE in a 6-subject, 12-rater â€œRound Robinâ€•setup. Neurophysiologie Clinique, 2022, 52, 157-169.	2.2	10
3	Increased Axon Initial Segment Length Results in Increased Na+ Currents in Spinal Motoneurones at Symptom Onset in the G127X SOD1 Mouse Model of Amyotrophic Lateral Sclerosis. Neuroscience, 2021, 468, 247-264.	2.3	21
4	Intravenous arylsulfatase A in metachromatic leukodystrophy: a phase 1/2 study. Annals of Clinical and Translational Neurology, 2021, 8, 66-80.	3.7	15
5	Measurement of axonal excitability: Consensus guidelines. Clinical Neurophysiology, 2020, 131, 308-323.	1.5	63
6	Myelin protein zero gene dose dependent axonal ion-channel dysfunction in a family with Charcot-Marie-Tooth disease. Clinical Neurophysiology, 2020, 131, 2440-2451.	1.5	7
7	Threshold tracking as a tool to study activity-dependent axonal plasticity. Clinical Neurophysiology, 2020, 131, 1381-1382.	1.5	1
8	Is Motor Unit Number Index (MUNIX) an index of Compound Muscle Action Potential amplitude rather than motor unit number?. Clinical Neurophysiology, 2019, 130, 1686-1687.	1.5	1
9	In Vivo Electrophysiological Measurement of the Rat Ulnar Nerve with Axonal Excitability Testing. Journal of Visualized Experiments, 2018, , .	0.3	2
10	An in Vivo Mouse Model to Investigate the Effect of Local Anesthetic Nanomedicines on Axonal Conduction and Excitability. Frontiers in Neuroscience, 2018, 12, 494.	2.8	6
11	Nerve excitability in the rat forelimb: a technique to improve translational utility. Journal of Neuroscience Methods, 2017, 275, 19-24.	2.5	10
12	Potassium channel abnormalities are consistent with early axon degeneration of motor axons in the G127X SOD1 mouse model of amyotrophic lateral sclerosis. Experimental Neurology, 2017, 292, 154-167.	4.1	17
13	S54 Motor axon excitability changes during anti-epileptic voltage-gated NA+ channel blocker therapy. Clinical Neurophysiology, 2017, 128, e196.	1.5	0
14	Sensation, mechanoreceptor, and nerve fiber function after nerve regeneration. Annals of Neurology, 2017, 82, 940-950.	5.3	13
15	EEG Assessment of Consciousness Rebooting from Coma. Springer Series in Cognitive and Neural Systems, 2017, , 361-381.	0.1	2
16	Burst-Suppression Ratio on Electrocorticography Depends on Interelectrode Distance. Journal of Clinical Neurophysiology, 2016, 33, 127-132.	1.7	7
17	Persistent alterations in active and passive electrical membrane properties of regenerated nerve fibers of man and mice. European Journal of Neuroscience, 2016, 43, 388-403.	2.6	16
18	Progression of motor axon dysfunction and ectopic Nav1.8 expression in a mouse model of Charcot-Marie-Tooth disease 1B. Neurobiology of Disease, 2016, 93, 201-214.	4.4	8

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19	Burst-suppression is reactive to photic stimulation in comatose children with acquired brain injury. Clinical Neurophysiology, 2016, 127, 2921-2930.	1.5	9
20	An oral NaV1.8 blocker improves motor function in mice completely deficient of myelin protein P0. Neuroscience Letters, 2016, 632, 33-38.	2.1	11
21	Post-stroke gaseous hypothermia increases vascular density but not neurogenesis in the ischemic penumbra of aged rats. Restorative Neurology and Neuroscience, 2016, 34, 401-414.	0.7	17
22	Aging-associated changes in motor axon voltage-gated Na + channel function in mice. Neurobiology of Aging, 2016, 39, 128-139.	3.1	21
23	Twenty-four hours hypothermia has temporary efficacy in reducing brain infarction and inflammation in aged rats. Neurobiology of Aging, 2016, 38, 127-140.	3.1	25
24	Remodeling of motor units after nerve regeneration studied by quantitative electromyography. Clinical Neurophysiology, 2016, 127, 1675-1682.	1.5	26
25	Sulfatide levels correlate with severity of neuropathy in metachromatic leukodystrophy. Annals of Clinical and Translational Neurology, 2015, 2, 518-533.	3.7	34
26	Postactivation depression of the Ia EPSP in motoneurons is reduced in both the G127X SOD1 model of amyotrophic lateral sclerosis and in aged mice. Journal of Neurophysiology, 2015, 114, 1196-1210.	1.8	12
27	Automated differentiation between epileptic and nonepileptic convulsive seizures. Annals of Neurology, 2015, 77, 348-351.	5.3	36
28	Quantitative analysis of surface electromyography during epileptic and nonepileptic convulsive seizures. Epilepsia, 2014, 55, 1128-1134.	5.1	42
29	Transient impairment of the axolemma following regional anaesthesia by lidocaine in humans. Journal of Physiology, 2014, 592, 2735-2750.	2.9	13
30	Intraoperative Somatosensory Evoked Potential Monitoring Decreases EEG Burst Suppression Ratio During Deep General Anesthesia. Journal of Clinical Neurophysiology, 2014, 31, 133-137.	1.7	15
31	In vitro electrophoresis and in vivo electrophysiology of peripheral nerve using DC field stimulation. Journal of Neuroscience Methods, 2014, 225, 90-96.	2.5	3
32	Functional Recovery of Regenerating Motor Axons is Delayed in Mice Heterozygously Deficient for the Myelin Protein P0 Gene. Neurochemical Research, 2013, 38, 1266-1277.	3.3	10
33	Dynamics of muscle activation during tonicâ€“clonic seizures. Epilepsy Research, 2013, 104, 84-93.	1.6	31
34	Prolonged high frequency electrical stimulation is lethal to motor axons of mice heterozygously deficient for the myelin protein P0 gene. Experimental Neurology, 2013, 247, 552-561.	4.1	4
35	Collagen Conduit Versus Microsurgical Neurorrhaphy: 2-Year Follow-Up of a Prospective, Blinded Clinical and Electrophysiological Multicenter Randomized, Controlled Trial. Journal of Hand Surgery, 2013, 38, 2405-2411.	1.6	82
36	Peripheral motor axons of SOD1G127X mutant mice are susceptible to activity-dependent degeneration. Neuroscience, 2013, 241, 239-249.	2.3	7

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37	Axonal voltage-gated ion channels as pharmacological targets for pain. European Journal of Pharmacology, 2013, 708, 105-112.	3.5	25
38	Peptide Mimetic of the S100A4 Protein Modulates Peripheral Nerve Regeneration and Attenuates the Progression of Neuropathy in Myelin Protein P0 Null Mice. Molecular Medicine, 2013, 19, 43-53.	4.4	23
39	Prolonged Gaseous Hypothermia Prevents the Upregulation of Phagocytosis-Specific Protein Annexin 1 and Causes Low-Amplitude EEG Activity in the Aged Rat Brain after Cerebral Ischemia. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 1632-1642.	4.3	59
40	Reappraising I_h: do myelinated motor and sensory axons of human peripheral nerves operate at different resting membrane potentials?. Journal of Physiology, 2012, 590, 1515-1516.	2.9	2
41	Nerve excitability changes related to axonal degeneration in amyotrophic lateral sclerosis: Insights from the transgenic SOD1G127X mouse model. Experimental Neurology, 2012, 233, 408-420.	4.1	27
42	Endogenous adenosine A1 receptor activation underlies the transient post-ischemic rhythmic delta EEG activity. Clinical Neurophysiology, 2011, 122, 1117-1126.	1.5	11
43	Nav1.8 channelopathy in mutant mice deficient for myelin protein zero is detrimental to motor axons. Brain, 2011, 134, 585-601.	7.6	32
44	Visual patch clamp recording of neurons in thick portions of the adult spinal cord. Journal of Neuroscience Methods, 2010, 190, 205-213.	2.5	1
45	Intrinsic properties of lumbar motor neurones in the adult G127insTGGG superoxide dismutaseâ€1 mutant mouse in vivo: evidence for increased persistent inward currents. Acta Physiologica, 2010, 200, 361-376.	3.8	60
46	Sleep deprivation attenuates experimental stroke severity in rats. Experimental Neurology, 2010, 222, 135-143.	4.1	45
47	Endogenous Activation of adenosine A1 receptors promotes post-ischemic electrocortical burst suppression. Neuroscience, 2009, 159, 1070-1078.	2.3	18
48	Nerve conduction and excitability studies in peripheral nerve disorders. Current Opinion in Neurology, 2009, 22, 460-466.	3.6	40
49	MO29 Nerve regeneration as an acquired channelopathy. Clinical Neurophysiology, 2008, 119, S37.	1.5	0
50	Acute energy restriction triggers Wallerian degeneration in mouse. Experimental Neurology, 2008, 212, 166-178.	4.1	33
51	Organization of Projection-Specific Interneurons in the Spinal Cord of the Red-Eared Turtle. Brain, Behavior and Evolution, 2008, 72, 179-191.	1.7	13
52	Better to Be Red than Blue in Virtual Competition. Cyberpsychology, Behavior and Social Networking, 2008, 11, 375-377.	2.2	44
53	Motor axon excitability during Wallerian degeneration. Brain, 2008, 132, 511-523.	7.6	63
54	Coffee drinking enhances the analgesic effect of cigarette smoking. NeuroReport, 2007, 18, 921-924.	1.2	22

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55	Internodal function in normal and regenerated mammalian axons. Acta Physiologica, 2007, 189, 191-200.	3.8	15
56	Red is a distractor for men in competition. Evolution and Human Behavior, 2007, 28, 285-293.	2.2	28
57	Endogenous Activation of Adenosine A1 Receptors Accelerates Ischemic Suppression of Spontaneous Electrocortical Activity. Journal of Neurophysiology, 2006, 96, 2809-2814.	1.8	23
58	Delayed ischemic electrocortical suppression during rapid repeated cerebral ischemia and kainate-induced seizures in rat. European Journal of Neuroscience, 2006, 23, 2135-2144.	2.6	12
59	Evaluation of Na+/K+ pump function following repetitive activity in mouse peripheral nerve. Journal of Neuroscience Methods, 2006, 155, 161-171.	2.5	30
60	Comparison of the fastest regenerating motor and sensory myelinated axons in the same peripheral nerve. Brain, 2006, 129, 2471-2483.	7.6	30
61	??-MSH decreases core and brain temperature during global cerebral ischemia in rats. NeuroReport, 2005, 16, 69-72.	1.2	14
62	Comparative electrophysiological, functional, and histological studies of nerve lesions in rats. Microsurgery, 2005, 25, 508-519.	1.3	71
63	Mechanisms of hyperpolarization in regenerated mature motor axons in cat. Journal of Physiology, 2004, 560, 807-819.	2.9	44
64	Persistent abnormalities of membrane excitability in regenerated mature motor axons in cat. Journal of Physiology, 2004, 560, 795-806.	2.9	36
65	Electro-cortical signs of early neuronal damage following transient global cerebral ischemia in rat. Journal of Cellular and Molecular Medicine, 2004, 8, 135-140.	3.6	8
66	Axonal elongation through long acellular nerve segments depends on recruitment of phagocytic cells from the near-nerve environment. Brain Research, 2001, 903, 185-197.	2.2	19
67	Oxidative damage following cerebral ischemia depends on reperfusion - a biochemical study in rat. Journal of Cellular and Molecular Medicine, 2001, 5, 163-170.	3.6	118
68	Early electrocortical changes consistent with ischemic preconditioning in rat. Journal of Cellular and Molecular Medicine, 2000, 4, 215-223.	3.6	6