

Mihai Moldovan

List of Publications by Year in descending order

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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	Oxidative damage following cerebral ischemia depends on reperfusion - a biochemical study in rat. <i>Journal of Cellular and Molecular Medicine</i> , 2001, 5, 163-170.	3.6	118
2	Collagen Conduit Versus Microsurgical Neuroorrhaphy: 2-Year Follow-Up of a Prospective, Blinded Clinical and Electrophysiological Multicenter Randomized, Controlled Trial. <i>Journal of Hand Surgery</i> , 2013, 38, 2405-2411.	1.6	82
3	Comparative electrophysiological, functional, and histological studies of nerve lesions in rats. <i>Microsurgery</i> , 2005, 25, 508-519.	1.3	71
4	Motor axon excitability during Wallerian degeneration. <i>Brain</i> , 2008, 132, 511-523.	7.6	63
5	Measurement of axonal excitability: Consensus guidelines. <i>Clinical Neurophysiology</i> , 2020, 131, 308-323.	1.5	63
6	Intrinsic properties of lumbar motor neurones in the adult G127insTGGG superoxide dismutase α mutant mouse <i>in vivo</i> : evidence for increased persistent inward currents. <i>Acta Physiologica</i> , 2010, 200, 361-376.	3.8	60
7	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. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 1632-1642.	4.3	59
8	Sleep deprivation attenuates experimental stroke severity in rats. <i>Experimental Neurology</i> , 2010, 222, 135-143.	4.1	45
9	Mechanisms of hyperpolarization in regenerated mature motor axons in cat. <i>Journal of Physiology</i> , 2004, 560, 807-819.	2.9	44
10	Better to Be Red than Blue in Virtual Competition. <i>Cyberpsychology, Behavior and Social Networking</i> , 2008, 11, 375-377.	2.2	44
11	Quantitative analysis of surface electromyography during epileptic and nonepileptic convulsive seizures. <i>Epilepsia</i> , 2014, 55, 1128-1134.	5.1	42
12	Nerve conduction and excitability studies in peripheral nerve disorders. <i>Current Opinion in Neurology</i> , 2009, 22, 460-466.	3.6	40
13	Persistent abnormalities of membrane excitability in regenerated mature motor axons in cat. <i>Journal of Physiology</i> , 2004, 560, 795-806.	2.9	36
14	Automated differentiation between epileptic and nonepileptic convulsive seizures. <i>Annals of Neurology</i> , 2015, 77, 348-351.	5.3	36
15	Sulfatide levels correlate with severity of neuropathy in metachromatic leukodystrophy. <i>Annals of Clinical and Translational Neurology</i> , 2015, 2, 518-533.	3.7	34
16	Acute energy restriction triggers Wallerian degeneration in mouse. <i>Experimental Neurology</i> , 2008, 212, 166-178.	4.1	33
17	Nav1.8 channelopathy in mutant mice deficient for myelin protein zero is detrimental to motor axons. <i>Brain</i> , 2011, 134, 585-601.	7.6	32
18	Dynamics of muscle activation during tonic α -clonic seizures. <i>Epilepsy Research</i> , 2013, 104, 84-93.	1.6	31

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19	Evaluation of Na ⁺ /K ⁺ pump function following repetitive activity in mouse peripheral nerve. <i>Journal of Neuroscience Methods</i> , 2006, 155, 161-171.	2.5	30
20	Comparison of the fastest regenerating motor and sensory myelinated axons in the same peripheral nerve. <i>Brain</i> , 2006, 129, 2471-2483.	7.6	30
21	Red is a distractor for men in competition. <i>Evolution and Human Behavior</i> , 2007, 28, 285-293.	2.2	28
22	Nerve excitability changes related to axonal degeneration in amyotrophic lateral sclerosis: Insights from the transgenic SOD1G127X mouse model. <i>Experimental Neurology</i> , 2012, 233, 408-420.	4.1	27
23	Remodeling of motor units after nerve regeneration studied by quantitative electromyography. <i>Clinical Neurophysiology</i> , 2016, 127, 1675-1682.	1.5	26
24	Axonal voltage-gated ion channels as pharmacological targets for pain. <i>European Journal of Pharmacology</i> , 2013, 708, 105-112.	3.5	25
25	Twenty-four hours hypothermia has temporary efficacy in reducing brain infarction and inflammation in aged rats. <i>Neurobiology of Aging</i> , 2016, 38, 127-140.	3.1	25
26	Endogenous Activation of Adenosine A1 Receptors Accelerates Ischemic Suppression of Spontaneous Electroconvulsive Activity. <i>Journal of Neurophysiology</i> , 2006, 96, 2809-2814.	1.8	23
27	Peptide Mimetic of the S100A4 Protein Modulates Peripheral Nerve Regeneration and Attenuates the Progression of Neuropathy in Myelin Protein P0 Null Mice. <i>Molecular Medicine</i> , 2013, 19, 43-53.	4.4	23
28	Coffee drinking enhances the analgesic effect of cigarette smoking. <i>NeuroReport</i> , 2007, 18, 921-924.	1.2	22
29	Ageing-associated changes in motor axon voltage-gated Na ⁺ channel function in mice. <i>Neurobiology of Aging</i> , 2016, 39, 128-139.	3.1	21
30	Increased Axon Initial Segment Length Results in Increased Na ⁺ Currents in Spinal Motoneurons at Symptom Onset in the G127X SOD1 Mouse Model of Amyotrophic Lateral Sclerosis. <i>Neuroscience</i> , 2021, 468, 247-264.	2.3	21
31	Axonal elongation through long acellular nerve segments depends on recruitment of phagocytic cells from the near-nerve environment. <i>Brain Research</i> , 2001, 903, 185-197.	2.2	19
32	Endogenous Activation of adenosine A1 receptors promotes post-ischemic electroconvulsive burst suppression. <i>Neuroscience</i> , 2009, 159, 1070-1078.	2.3	18
33	Post-stroke gaseous hypothermia increases vascular density but not neurogenesis in the ischemic penumbra of aged rats. <i>Restorative Neurology and Neuroscience</i> , 2016, 34, 401-414.	0.7	17
34	Potassium channel abnormalities are consistent with early axon degeneration of motor axons in the G127X SOD1 mouse model of amyotrophic lateral sclerosis. <i>Experimental Neurology</i> , 2017, 292, 154-167.	4.1	17
35	Persistent alterations in active and passive electrical membrane properties of regenerated nerve fibers of man and mice. <i>European Journal of Neuroscience</i> , 2016, 43, 388-403.	2.6	16
36	Internodal function in normal and regenerated mammalian axons. <i>Acta Physiologica</i> , 2007, 189, 191-200.	3.8	15

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37	Intraoperative Somatosensory Evoked Potential Monitoring Decreases EEG Burst Suppression Ratio During Deep General Anesthesia. <i>Journal of Clinical Neurophysiology</i> , 2014, 31, 133-137.	1.7	15
38	Intravenous arylsulfatase A in metachromatic leukodystrophy: a phase 1/2 study. <i>Annals of Clinical and Translational Neurology</i> , 2021, 8, 66-80.	3.7	15
39	??-MSH decreases core and brain temperature during global cerebral ischemia in rats. <i>NeuroReport</i> , 2005, 16, 69-72.	1.2	14
40	Organization of Projection-Specific Interneurons in the Spinal Cord of the Red-Eared Turtle. <i>Brain, Behavior and Evolution</i> , 2008, 72, 179-191.	1.7	13
41	Transient impairment of the axolemma following regional anaesthesia by lidocaine in humans. <i>Journal of Physiology</i> , 2014, 592, 2735-2750.	2.9	13
42	Sensation, mechanoreceptor, and nerve fiber function after nerve regeneration. <i>Annals of Neurology</i> , 2017, 82, 940-950.	5.3	13
43	Delayed ischemic electrocortical suppression during rapid repeated cerebral ischemia and kainate-induced seizures in rat. <i>European Journal of Neuroscience</i> , 2006, 23, 2135-2144.	2.6	12
44	Postactivation depression of the Ia EPSP in motoneurons is reduced in both the G127X SOD1 model of amyotrophic lateral sclerosis and in aged mice. <i>Journal of Neurophysiology</i> , 2015, 114, 1196-1210.	1.8	12
45	Endogenous adenosine A1 receptor activation underlies the transient post-ischemic rhythmic delta EEG activity. <i>Clinical Neurophysiology</i> , 2011, 122, 1117-1126.	1.5	11
46	An oral Nav1.8 blocker improves motor function in mice completely deficient of myelin protein PO. <i>Neuroscience Letters</i> , 2016, 632, 33-38.	2.1	11
47	Functional Recovery of Regenerating Motor Axons is Delayed in Mice Heterozygously Deficient for the Myelin Protein PO Gene. <i>Neurochemical Research</i> , 2013, 38, 1266-1277.	3.3	10
48	Nerve excitability in the rat forelimb: a technique to improve translational utility. <i>Journal of Neuroscience Methods</i> , 2017, 275, 19-24.	2.5	10
49	Assessing inter-rater reproducibility in MScanFit MUNE in a 6-subject, 12-rater "Round Robin" setup. <i>Neurophysiologie Clinique</i> , 2022, 52, 157-169.	2.2	10
50	Burst-suppression is reactive to photic stimulation in comatose children with acquired brain injury. <i>Clinical Neurophysiology</i> , 2016, 127, 2921-2930.	1.5	9
51	Electro-cortical signs of early neuronal damage following transient global cerebral ischemia in rat. <i>Journal of Cellular and Molecular Medicine</i> , 2004, 8, 135-140.	3.6	8
52	Progression of motor axon dysfunction and ectopic Nav1.8 expression in a mouse model of Charcot-Marie-Tooth disease 1B. <i>Neurobiology of Disease</i> , 2016, 93, 201-214.	4.4	8
53	Peripheral motor axons of SOD1G127X mutant mice are susceptible to activity-dependent degeneration. <i>Neuroscience</i> , 2013, 241, 239-249.	2.3	7
54	Burst-Suppression Ratio on Electrocorticography Depends on Interelectrode Distance. <i>Journal of Clinical Neurophysiology</i> , 2016, 33, 127-132.	1.7	7

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55	Myelin protein zero gene dose dependent axonal ion-channel dysfunction in a family with Charcot-Marie-Tooth disease. <i>Clinical Neurophysiology</i> , 2020, 131, 2440-2451.	1.5	7
56	Early electrocortical changes consistent with ischemic preconditioning in rat. <i>Journal of Cellular and Molecular Medicine</i> , 2000, 4, 215-223.	3.6	6
57	An in Vivo Mouse Model to Investigate the Effect of Local Anesthetic Nanomedicines on Axonal Conduction and Excitability. <i>Frontiers in Neuroscience</i> , 2018, 12, 494.	2.8	6
58	Prolonged high frequency electrical stimulation is lethal to motor axons of mice heterozygously deficient for the myelin protein PO gene. <i>Experimental Neurology</i> , 2013, 247, 552-561.	4.1	4
59	In vitro electrophoresis and in vivo electrophysiology of peripheral nerve using DC field stimulation. <i>Journal of Neuroscience Methods</i> , 2014, 225, 90-96.	2.5	3
60	A method to assess the default EEG macrostate and its reactivity to stimulation. <i>Clinical Neurophysiology</i> , 2022, 134, 50-64.	1.5	3
61	Reappraising <i>h</i> : do myelinated motor and sensory axons of human peripheral nerves operate at different resting membrane potentials?. <i>Journal of Physiology</i> , 2012, 590, 1515-1516.	2.9	2
62	EEG Assessment of Consciousness Rebooting from Coma. <i>Springer Series in Cognitive and Neural Systems</i> , 2017, , 361-381.	0.1	2
63	&em>In Vivo Electrophysiological Measurement of the Rat Ulnar Nerve with Axonal Excitability Testing. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	2
64	Visual patch clamp recording of neurons in thick portions of the adult spinal cord. <i>Journal of Neuroscience Methods</i> , 2010, 190, 205-213.	2.5	1
65	Is Motor Unit Number Index (MUNIX) an index of Compound Muscle Action Potential amplitude rather than motor unit number?. <i>Clinical Neurophysiology</i> , 2019, 130, 1686-1687.	1.5	1
66	Threshold tracking as a tool to study activity-dependent axonal plasticity. <i>Clinical Neurophysiology</i> , 2020, 131, 1381-1382.	1.5	1
67	MO29 Nerve regeneration as an acquired channelopathy. <i>Clinical Neurophysiology</i> , 2008, 119, S37.	1.5	0
68	S54 Motor axon excitability changes during anti-epileptic voltage-gated NA ⁺ channel blocker therapy. <i>Clinical Neurophysiology</i> , 2017, 128, e196.	1.5	0