

James Howells

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

1,780
citations

279701

23
h-index

302012

39
g-index

66
all docs

66
docs citations

66
times ranked

1729
citing authors

#	ARTICLE	IF	CITATIONS
1	Short interval intracortical inhibition: Variability of amplitude and threshold-tracking measurements with 6 or 10 stimuli per point. <i>Neurophysiologie Clinique</i> , 2022, 52, 170-173.	1.0	2
2	Short latency afferent inhibition: comparison between threshold-tracking and conventional amplitude recording methods. <i>Experimental Brain Research</i> , 2022, 240, 1241-1247.	0.7	2
3	Differences in nerve excitability properties across upper limb sensory and motor axons. <i>Clinical Neurophysiology</i> , 2022, 136, 138-149.	0.7	2
4	Axonal excitability changes in children with spinal muscular atrophy treated with nusinersen. <i>Journal of Physiology</i> , 2022, 600, 95-109.	1.3	7
5	Short-interval intracortical inhibition as a function of inter-stimulus interval: Three methods compared. <i>Brain Stimulation</i> , 2021, 14, 22-32.	0.7	22
6	Motor unit changes in children with symptomatic spinal muscular atrophy treated with nusinersen. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2021, 92, 78-85.	0.9	33
7	Motor cortical excitability predicts cognitive phenotypes in amyotrophic lateral sclerosis. <i>Scientific Reports</i> , 2021, 11, 2172.	1.6	12
8	Electrophysiological investigation of motor axonal excitability in a mouse model of nerve constriction injury. <i>Journal of the Peripheral Nervous System</i> , 2021, 26, 99-112.	1.4	0
9	Comparison of figure-of-8 and circular coils for threshold tracking transcranial magnetic stimulation measurements. <i>Neurophysiologie Clinique</i> , 2021, 51, 153-160.	1.0	10
10	Early diagnosis of amyotrophic lateral sclerosis by threshold tracking and conventional transcranial magnetic stimulation. <i>European Journal of Neurology</i> , 2021, 28, 3030-3039.	1.7	19
11	Conventional and Threshold-Tracking Transcranial Magnetic Stimulation Tests for Single-handed Operation. <i>Journal of Visualized Experiments</i> , 2021, , .	0.2	1
12	Early focality and spread of cortical dysfunction in amyotrophic lateral sclerosis: A regional study across the motor cortices. <i>Clinical Neurophysiology</i> , 2020, 131, 958-966.	0.7	22
13	Neuropathy in sporadic inclusion body myositis: A multi-modality neurophysiological study. <i>Clinical Neurophysiology</i> , 2020, 131, 2766-2776.	0.7	8
14	Acute changes in nerve excitability following oxaliplatin treatment in mice. <i>Journal of Neurophysiology</i> , 2020, 124, 232-244.	0.9	9
15	Amyotrophic lateral sclerosis diagnostic index. <i>Neurology</i> , 2019, 92, e536-e547.	1.5	17
16	The effect of coil type and limb dominance in the assessment of lower-limb motor cortex excitability using TMS. <i>Neuroscience Letters</i> , 2019, 699, 84-90.	1.0	17
17	009â€¦Axonal excitability properties in dravetâ€™s syndrome reflect effect of loss of sodium channels. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2019, 90, A4.1-A4.	0.9	0
18	<i>h</i> contributes to increased motoneuron excitability in restless legs syndrome. <i>Journal of Physiology</i> , 2019, 597, 599-609.	1.3	7

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19	Inter-session reliability of short-interval intracortical inhibition measured by threshold tracking TMS. <i>Neuroscience Letters</i> , 2018, 674, 18-23.	1.0	34
20	Excitability of sensory axons in amyotrophic lateral sclerosis. <i>Clinical Neurophysiology</i> , 2018, 129, 1472-1478.	0.7	9
21	Tracking small sensory nerve action potentials in human axonal excitability studies. <i>Journal of Neuroscience Methods</i> , 2018, 298, 45-53.	1.3	13
22	In vivo assessment of neurological channelopathies: Application of peripheral nerve excitability studies. <i>Neuropharmacology</i> , 2018, 132, 98-107.	2.0	11
23	Sarcolemmal excitability in the myotonic dystrophies. <i>Muscle and Nerve</i> , 2018, 57, 595-602.	1.0	12
24	Neurofascin-155 IGG4 Neuropathy: Pathophysiological Insights, Spectrum of Clinical Severity and Response To treatment. <i>Muscle and Nerve</i> , 2018, 57, 848-851.	1.0	37
25	Utility of threshold tracking transcranial magnetic stimulation in ALS. <i>Clinical Neurophysiology Practice</i> , 2018, 3, 164-172.	0.6	51
26	<i>In vivo</i> evidence for reduced ion channel expression in motor axons of patients with amyotrophic lateral sclerosis. <i>Journal of Physiology</i> , 2018, 596, 5379-5396.	1.3	23
27	Physiological Processes Underlying Short Interval Intracortical Facilitation in the Human Motor Cortex. <i>Frontiers in Neuroscience</i> , 2018, 12, 240.	1.4	31
28	Anti-MAG neuropathy: Role of IgM antibodies, the paranodal junction and juxtaparanodal potassium channels. <i>Clinical Neurophysiology</i> , 2018, 129, 2162-2169.	0.7	15
29	Mechanisms of nerve dysfunction in inflammatory neuropathies. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2018, 89, A3.1-A3.	0.9	0
30	Primary lateral sclerosis and the amyotrophic lateral sclerosis "frontotemporal dementia spectrum. <i>Journal of Neurology</i> , 2018, 265, 1819-1828.	1.8	35
31	A unified model of the excitability of mouse sensory and motor axons. <i>Journal of the Peripheral Nervous System</i> , 2018, 23, 159-173.	1.4	9
32	Differentiating lower motor neuron syndromes. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2017, 88, 474-483.	0.9	93
33	Peripheral nerve diffusion tensor imaging as a measure of disease progression in ALS. <i>Journal of Neurology</i> , 2017, 264, 882-890.	1.8	23
34	Diuretic-sensitive electroneutral Na ⁺ movement and temperature effects on central axons. <i>Journal of Physiology</i> , 2017, 595, 3471-3482.	1.3	6
35	Cortical function and corticomotoneuronal adaptation in monomelic amyotrophy. <i>Clinical Neurophysiology</i> , 2017, 128, 1488-1495.	0.7	9
36	Burning pain: axonal dysfunction in erythromelalgia. <i>Pain</i> , 2017, 158, 900-911.	2.0	11

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37	The evolution of motor cortical dysfunction in amyotrophic lateral sclerosis. <i>Clinical Neurophysiology</i> , 2017, 128, 1075-1082.	0.7	34
38	Motor unit remodelling in multifocal motor neuropathy: The importance of axonal loss. <i>Clinical Neurophysiology</i> , 2017, 128, 2022-2028.	0.7	25
39	Laterality of motor cortical function measured by transcranial magnetic stimulation threshold tracking. <i>Muscle and Nerve</i> , 2017, 55, 424-427.	1.0	10
40	Sensory and motor axons are different: implications for neurological disease. <i>Annals of Clinical Neurophysiology</i> , 2017, 19, 3.	0.1	5
41	In vivo evidence of reduced nodal and paranodal conductances in type 1 diabetes. <i>Clinical Neurophysiology</i> , 2016, 127, 1700-1706.	0.7	17
42	Effect of fampridine on axonal excitability in multiple sclerosis. <i>Clinical Neurophysiology</i> , 2016, 127, 2636-2642.	0.7	10
43	Motor cortical function determines prognosis in sporadic ALS. <i>Neurology</i> , 2016, 87, 513-520.	1.5	76
44	Accommodation to hyperpolarization of human axons assessed in the frequency domain. <i>Journal of Neurophysiology</i> , 2016, 116, 322-335.	0.9	7
45	Threshold tracking transcranial magnetic stimulation: Effects of age and gender on motor cortical function. <i>Clinical Neurophysiology</i> , 2016, 127, 2355-2361.	0.7	33
46	Axonal Ion Channel Dysfunction in <i>C9orf72</i> Familial Amyotrophic Lateral Sclerosis. <i>JAMA Neurology</i> , 2015, 72, 49.	4.5	35
47	Sensitivity and specificity of threshold tracking transcranial magnetic stimulation for diagnosis of amyotrophic lateral sclerosis: a prospective study. <i>Lancet Neurology</i> , The, 2015, 14, 478-484.	4.9	164
48	Increased HCN channel driven inward rectification in benign cramp fasciculation syndrome. <i>Brain</i> , 2015, 138, 3168-3179.	3.7	19
49	Cortical Function in Asymptomatic Carriers and Patients With <i>C9orf72</i> Amyotrophic Lateral Sclerosis. <i>JAMA Neurology</i> , 2015, 72, 1268.	4.5	74
50	Segmental motoneuronal dysfunction is a feature of amyotrophic lateral sclerosis. <i>Clinical Neurophysiology</i> , 2015, 126, 828-836.	0.7	26
51	Evidence for a causal relationship between hyperkalaemia and axonal dysfunction in end-stage kidney disease. <i>Clinical Neurophysiology</i> , 2014, 125, 179-185.	0.7	46
52	Axonal excitability in X-linked dominant Charcot Marie Tooth disease. <i>Clinical Neurophysiology</i> , 2014, 125, 1261-1269.	0.7	12
53	Different mechanisms underlying changes in excitability of peripheral nerve sensory and motor axons in multiple sclerosis. <i>Muscle and Nerve</i> , 2013, 47, 53-60.	1.0	4
54	Excitability and the safety margin in human axons during hyperthermia. <i>Journal of Physiology</i> , 2013, 591, 3063-3080.	1.3	31

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55	Effects of Hemodiafiltration and High Flux Hemodialysis on Nerve Excitability in End-Stage Kidney Disease. PLoS ONE, 2013, 8, e59055.	1.1	18
56	The voltage dependence of I_h in human myelinated axons. Journal of Physiology, 2012, 590, 1625-1640.	1.3	125
57	Properties of low-threshold motor axons in the human median nerve. Journal of Physiology, 2010, 588, 2503-2515.	1.3	45
58	Threshold behaviour of human axons explored using subthreshold perturbations to membrane potential. Journal of Physiology, 2009, 587, 491-504.	1.3	27
59	Up-regulation of slow K ⁺ channels in peripheral motor axons: a transcriptional channelopathy in multiple sclerosis. Brain, 2008, 131, 3062-3071.	3.7	29
60	Inflections in threshold electrotonus to depolarizing currents in sensory axons. Muscle and Nerve, 2007, 36, 849-852.	1.0	6
61	Plasticity of inwardly rectifying conductances following a corticospinal lesion in human subjects. Journal of Physiology, 2007, 581, 927-940.	1.3	59
62	Outwardly rectifying deflections in threshold electrotonus due to K ⁺ conductances. Journal of Physiology, 2007, 580, 685-696.	1.3	20
63	Augmentation of the contraction force of human thenar muscles by and during brief discharge trains. Muscle and Nerve, 2006, 33, 384-392.	1.0	3
64	Assessment of cortical excitability using threshold tracking techniques. Muscle and Nerve, 2006, 33, 477-486.	1.0	162
65	After-effects of near-threshold stimulation in single human motor axons. Journal of Physiology, 2005, 564, 931-940.	1.3	40
66	Axonal excitability measured by tracking twitch contraction force. Muscle and Nerve, 2004, 30, 437-443.	1.0	6