

Nicolas Caesar Petersen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78
papers

4,518
citations

38
h-index

67
g-index

82
ext. papers

4,866
ext. citations

3.8
avg, IF

5.06
L-index

#	Paper	IF	Citations
78	The Effect of Hyperoxia on Central and Peripheral Factors of Arm Flexor Muscles Fatigue Following Maximal Ergometer Rowing in Men.. <i>Frontiers in Physiology</i> , 2022 , 13, 829097	4.6	
77	Self-Reported Physical Activity and Cardiovascular Disease Risk Factors in Patients with Lacunar Stroke. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2019 , 28, 2168-2176	2.8	1
76	Effect of Home-Based High-Intensity Interval Training in Patients With Lacunar Stroke: A Randomized Controlled Trial. <i>Frontiers in Neurology</i> , 2019 , 10, 664	4.1	10
75	Cortex-wide Changes in Extracellular Potassium Ions Parallel Brain State Transitions in Awake Behaving Mice. <i>Cell Reports</i> , 2019 , 28, 1182-1194.e4	10.6	22
74	Abstract WP191: Short-term Follow-up After Early Home-based High-intensity Interval Training in Stroke. <i>Stroke</i> , 2019 , 50,	6.7	1
73	Home-based aerobic exercise in patients with lacunar stroke: Design of the HITPALS randomized controlled trial. <i>Contemporary Clinical Trials Communications</i> , 2019 , 14, 100332	1.8	4
72	Voluntary running enhances glymphatic influx in awake behaving, young mice. <i>Neuroscience Letters</i> , 2018 , 662, 253-258	3.3	44
71	"Graded Cycling Test with Talk Test" Is a Reliable Test to Monitor Cardiovascular Fitness in Patients with Minor Stroke. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2017 , 26, 494-499	2.8	4
70	Grid-climbing Behaviour as a Pain Measure for Cancer-induced Bone Pain and Neuropathic Pain. <i>In Vivo</i> , 2017 , 31, 619-623	2.3	5
69	Sulforhodamine 101, a widely used astrocyte marker, can induce cortical seizure-like activity at concentrations commonly used. <i>Scientific Reports</i> , 2016 , 6, 30433	4.9	24
68	Gait variability and motor control in people with knee osteoarthritis. <i>Gait and Posture</i> , 2015 , 42, 479-84	2.6	27
67	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, 1196-210	3.2	9
66	Origin of the low-level EMG during the silent period following transcranial magnetic stimulation. <i>Clinical Neurophysiology</i> , 2012 , 123, 1409-14	4.3	21
65	Movement behavior of high-heeled walking: how does the nervous system control the ankle joint during an unstable walking condition?. <i>PLoS ONE</i> , 2012 , 7, e37390	3.7	10
64	The effect of hyperoxia on cortical activation following maximal whole body exercise in humans. <i>FASEB Journal</i> , 2012 , 26, lb747	0.9	
63	Differential effects of low-intensity motor cortical stimulation on the inspiratory activity in scalene muscles during voluntary and involuntary breathing. <i>Respiratory Physiology and Neurobiology</i> , 2011 , 175, 265-71	2.8	14
62	Neck pain and postural balance among workers with high postural demands - a cross-sectional study. <i>BMC Musculoskeletal Disorders</i> , 2011 , 12, 176	2.8	33

61	Probing the corticospinal link between the motor cortex and motoneurons: some neglected aspects of human motor cortical function. <i>Acta Physiologica</i> , 2010 , 198, 403-16	5.6	37
60	Changes in presumed motor cortical activity during fatiguing muscle contraction in humans. <i>Acta Physiologica</i> , 2010 , 199, 317-26	5.6	12
59	Reduced muscle activation during exercise related to brain oxygenation and metabolism in humans. <i>Journal of Physiology</i> , 2010 , 588, 1985-95	3.9	116
58	Effects of erythropoietin administration on cerebral metabolism and exercise capacity in men. <i>Journal of Applied Physiology</i> , 2010 , 109, 476-83	3.7	35
57	Sulforhodamine 101 induces long-term potentiation of intrinsic excitability and synaptic efficacy in hippocampal CA1 pyramidal neurons. <i>Neuroscience</i> , 2010 , 169, 1601-9	3.9	47
56	The effects of normoxia, hypoxia, and hyperoxia on cerebral haemoglobin saturation using near infrared spectroscopy during maximal exercise. <i>International Journal of Industrial Ergonomics</i> , 2010 , 40, 190-196	2.9	13
55	Cortical involvement in anticipatory postural reactions in man. <i>Experimental Brain Research</i> , 2009 , 193, 161-71	2.3	38
54	The cerebral metabolic ratio is not affected by oxygen availability during maximal exercise in humans. <i>Journal of Physiology</i> , 2008 , 586, 107-12	3.9	48
53	Understanding central fatigue: where to go?. <i>Experimental Physiology</i> , 2007 , 92, 369-70	2.4	7
52	The nature of corticospinal paths driving human motoneurons during voluntary contractions. <i>Journal of Physiology</i> , 2007 , 584, 651-9	3.9	36
51	Reduced reciprocal inhibition is seen only in spastic limbs in patients with neurolathyrism. <i>Experimental Brain Research</i> , 2007 , 181, 193-7	2.3	16
50	Watching your foot move--an fMRI study of visuomotor interactions during foot movement. <i>Cerebral Cortex</i> , 2007 , 17, 1906-17	5.1	27
49	Ia-afferent input to motoneurons during shortening and lengthening muscle contractions in humans. <i>Journal of Applied Physiology</i> , 2007 , 102, 144-8	3.7	18
48	The brain does not take up lactate during exercise in hypoxia. <i>FASEB Journal</i> , 2007 , 21, A1386	0.9	1
47	The cerebral metabolic ratio is 1.7 during maximal wholebody exercise in humans. <i>FASEB Journal</i> , 2007 , 21, A836	0.9	
46	The effect of sustained low-intensity contractions on supraspinal fatigue in human elbow flexor muscles. <i>Journal of Physiology</i> , 2006 , 573, 511-23	3.9	204
45	Stretch reflex regulation in healthy subjects and patients with spasticity. <i>Neuromodulation</i> , 2005 , 8, 49-53.1		34
44	Reciprocal inhibition and corticospinal transmission in the arm and leg in patients with autosomal dominant pure spastic paraparesis (ADPSP). <i>Brain</i> , 2004 , 127, 2693-702	11.2	24

43	Functional coupling of motor units is modulated during walking in human subjects. <i>Journal of Neurophysiology</i> , 2003 , 89, 960-8	3.2	91
42	Changes in segmental and motor cortical output with contralateral muscle contractions and altered sensory inputs in humans. <i>Journal of Neurophysiology</i> , 2003 , 90, 2451-9	3.2	223
41	Depression of activity in the corticospinal pathway during human motor behavior after strong voluntary contractions. <i>Journal of Neuroscience</i> , 2003 , 23, 7974-80	6.6	59
40	The effect of a contralateral contraction on maximal voluntary activation and central fatigue in elbow flexor muscles. <i>Experimental Brain Research</i> , 2003 , 150, 308-13	2.3	69
39	Investigating human motor control by transcranial magnetic stimulation. <i>Experimental Brain Research</i> , 2003 , 152, 1-16	2.3	148
38	Interaction between peripheral afferent activity and presynaptic inhibition of Ia afferents in the cat. <i>Journal of Neurophysiology</i> , 2002 , 88, 1664-74	3.2	35
37	Coupling of antagonistic ankle muscles during co-contraction in humans. <i>Experimental Brain Research</i> , 2002 , 146, 282-92	2.3	44
36	Interaction of transcranial magnetic stimulation and electrical transmastoid stimulation in human subjects. <i>Journal of Physiology</i> , 2002 , 541, 949-58	3.9	65
35	The effect of electrical stimulation of the corticospinal tract on motor units of the human biceps brachii. <i>Journal of Physiology</i> , 2002 , 544, 277-84	3.9	64
34	Corticospinal transmission to leg motoneurons in human subjects with deficient glycinergic inhibition. <i>Journal of Physiology</i> , 2002 , 544, 631-40	3.9	11
33	Corticospinal transmission after voluntary contractions. <i>Advances in Experimental Medicine and Biology</i> , 2002 , 508, 435-41	3.6	9
32	Patients with the major and minor form of hyperekplexia differ with regards to disynaptic reciprocal inhibition between ankle flexor and extensor muscles. <i>Experimental Brain Research</i> , 2001 , 140, 190-7	2.3	16
31	Suppression of EMG activity by transcranial magnetic stimulation in human subjects during walking. <i>Journal of Physiology</i> , 2001 , 537, 651-6	3.9	189
30	Unexpected reflex response to transmastoid stimulation in human subjects during near-maximal effort. <i>Journal of Physiology</i> , 2001 , 536, 305-12	3.9	7
29	Modulation of presynaptic inhibition and disynaptic reciprocal Ia inhibition during voluntary movement in spasticity. <i>Brain</i> , 2001 , 124, 826-37	11.2	155
28	Synchronization of lower limb motor unit activity during walking in human subjects. <i>Journal of Neurophysiology</i> , 2001 , 86, 1266-76	3.2	57
27	Differential changes in corticospinal and Ia input to tibialis anterior and soleus motor neurones during voluntary contraction in man. <i>Acta Physiologica Scandinavica</i> , 2000 , 170, 65-76		44
26	Cerebral activation during bicycle movements in man. <i>Experimental Brain Research</i> , 2000 , 135, 66-72	2.3	155

25	Distribution of non-monosynaptic excitation to early and late recruited units in human forearm muscles. <i>Experimental Brain Research</i> , 2000 , 134, 274-8	2.3	26
24	Evidence for transcortical reflex pathways in the lower limb of man. <i>Progress in Neurobiology</i> , 2000 , 62, 251-72	10.9	80
23	Presynaptic control of transmission along the pathway mediating disynaptic reciprocal inhibition in the cat. <i>Journal of Physiology</i> , 2000 , 526 Pt 3, 623-37	3.9	29
22	The effect of baclofen on the transmission in spinal pathways in spastic multiple sclerosis patients. <i>Clinical Neurophysiology</i> , 2000 , 111, 1372-9	4.3	56
21	Modulation of reciprocal inhibition between ankle extensors and flexors during walking in man. <i>Journal of Physiology</i> , 1999 , 520 Pt 2, 605-19	3.9	109
20	Evidence suggesting that a transcortical reflex pathway contributes to cutaneous reflexes in the tibialis anterior muscle during walking in man. <i>Experimental Brain Research</i> , 1999 , 124, 59-68	2.3	68
19	Recruitment of extensor-carpi-radialis motor units by transcranial magnetic stimulation and radial-nerve stimulation in human subjects. <i>Experimental Brain Research</i> , 1999 , 128, 557-62	2.3	36
18	Evidence that a transcortical pathway contributes to stretch reflexes in the tibialis anterior muscle in man. <i>Journal of Physiology</i> , 1998 , 512 (Pt 1), 267-76	3.9	139
17	The effect of transcranial magnetic stimulation on the soleus H reflex during human walking. <i>Journal of Physiology</i> , 1998 , 513 (Pt 2), 599-610	3.9	98
16	Corticospinal function during human walking. <i>Annals of the New York Academy of Sciences</i> , 1998 , 860, 546-9	6.5	13
15	Gating of somatosensory evoked potentials during voluntary movement of the lower limb in man. <i>Experimental Brain Research</i> , 1998 , 120, 143-52	2.3	47
14	Flexor reflex afferents reset the step cycle during fictive locomotion in the cat. <i>Experimental Brain Research</i> , 1998 , 122, 339-50	2.3	131
13	Pharmacologically evoked fictive motor patterns in the acutely spinalized marmoset monkey (<i>Callithrix jacchus</i>). <i>Experimental Brain Research</i> , 1998 , 122, 351-61	2.3	88
12	Evaluation of reciprocal inhibition of the soleus H-reflex during tonic plantar flexion in man. <i>Journal of Neuroscience Methods</i> , 1998 , 84, 1-8	3	50
11	Sensitivity of H-reflexes and stretch reflexes to presynaptic inhibition in humans. <i>Journal of Neurophysiology</i> , 1998 , 80, 610-20	3.2	132
10	Evidence suggesting a transcortical pathway from cutaneous foot afferents to tibialis anterior motoneurons in man. <i>Journal of Physiology</i> , 1997 , 501 (Pt 2), 473-84	3.9	113
9	Changes in transmission across synapses of Ia afferents in spastic patients. <i>Brain</i> , 1995 , 118 (Pt 4), 995-1004	10.4	143
8	Evidence favouring different descending pathways to soleus motoneurons activated by magnetic brain stimulation in man. <i>Journal of Physiology</i> , 1995 , 486 (Pt 3), 779-88	3.9	58

7	Changes in the effect of magnetic brain stimulation accompanying voluntary dynamic contraction in man. <i>Journal of Physiology</i> , 1995 , 484 (Pt 3), 777-89	3.9	56
6	Latency of effects evoked by electrical and magnetic brain stimulation in lower limb motoneurons in man. <i>Journal of Physiology</i> , 1995 , 484 (Pt 3), 791-802	3.9	77
5	Disynaptic reciprocal inhibition of ankle extensors in spastic patients. <i>Brain</i> , 1994 , 117 (Pt 5), 1161-8	11.2	163
4	Is presynaptic inhibition distributed to corticospinal fibres in man?. <i>Journal of Physiology</i> , 1994 , 477, 47-58	3.9	166
3	Task-related changes in the effect of magnetic brain stimulation on spinal neurones in man. <i>Journal of Physiology</i> , 1993 , 471, 223-43	3.9	177
2	H-reflexes are less depressed following muscle stretch in spastic spinal cord injured patients than in healthy subjects. <i>Experimental Brain Research</i> , 1993 , 97, 173-6	2.3	74
1	Changes in motor cortex excitability preceding voluntary ramp-and-hold plantarflexion in man. <i>Acta Physiologica Scandinavica</i> , 1992 , 146, 399-400		6