Nicolas Caesar Petersen

List of Publications by Citations

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	Changes in segmental and motor cortical output with contralateral muscle contractions and altered sensory inputs in humans. *Journal of Neurophysiology*, **2003**, 90, 2451-9	3.2	223
77	The effect of sustained low-intensity contractions on supraspinal fatigue in human elbow flexor muscles. *Journal of Physiology*, **2006**, 573, 511-23	3.9	204
76	Suppression of EMG activity by transcranial magnetic stimulation in human subjects during walking. *Journal of Physiology*, **2001**, 537, 651-6	3.9	189
75	Task-related changes in the effect of magnetic brain stimulation on spinal neurones in man. *Journal of Physiology*, **1993**, 471, 223-43	3.9	177
74	Is presynaptic inhibition distributed to corticospinal fibres in man?. *Journal of Physiology*, **1994**, 477, 47-58	3.9	166
73	Disynaptic reciprocal inhibition of ankle extensors in spastic patients. *Brain*, **1994**, 117 (Pt 5), 1161-8	11.2	163
72	Modulation of presynaptic inhibition and disynaptic reciprocal Ia inhibition during voluntary movement in spasticity. *Brain*, **2001**, 124, 826-37	11.2	155
71	Cerebral activation during bicycle movements in man. *Experimental Brain Research*, **2000**, 135, 66-72	2.3	155
70	Investigating human motor control by transcranial magnetic stimulation. *Experimental Brain Research*, **2003**, 152, 1-16	2.3	148
69	Changes in transmission across synapses of Ia afferents in spastic patients. *Brain*, **1995**, 118 (Pt 4), 995-1004	11.2	143
68	Evidence that a transcortical pathway contributes to stretch reflexes in the tibialis anterior muscle in man. *Journal of Physiology*, **1998**, 512 (Pt 1), 267-76	3.9	139
67	Sensitivity of H-reflexes and stretch reflexes to presynaptic inhibition in humans. *Journal of Neurophysiology*, **1998**, 80, 610-20	3.2	132
66	Flexor reflex afferents reset the step cycle during fictive locomotion in the cat. *Experimental Brain Research*, **1998**, 122, 339-50	2.3	131
65	Reduced muscle activation during exercise related to brain oxygenation and metabolism in humans. *Journal of Physiology*, **2010**, 588, 1985-95	3.9	116
64	Evidence suggesting a transcortical pathway from cutaneous foot afferents to tibialis anterior motoneurones in man. *Journal of Physiology*, **1997**, 501 (Pt 2), 473-84	3.9	113
63	Modulation of reciprocal inhibition between ankle extensors and flexors during walking in man. *Journal of Physiology*, **1999**, 520 Pt 2, 605-19	3.9	109
62	The effect of transcranial magnetic stimulation on the soleus H reflex during human walking. *Journal of Physiology*, **1998**, 513 (Pt 2), 599-610	3.9	98

61	Functional coupling of motor units is modulated during walking in human subjects. *Journal of Neurophysiology*, **2003**, 89, 960-8	3.2	91
60	Pharmacologically evoked fictive motor patterns in the acutely spinalized marmoset monkey (Callithrix jacchus). *Experimental Brain Research*, **1998**, 122, 351-61	2.3	88
59	Evidence for transcortical reflex pathways in the lower limb of man. *Progress in Neurobiology*, **2000**, 62, 251-72	10.9	80
58	Latency of effects evoked by electrical and magnetic brain stimulation in lower limb motoneurones in man. *Journal of Physiology*, **1995**, 484 (Pt 3), 791-802	3.9	77
57	H-reflexes are less depressed following muscle stretch in spastic spinal cord injured patients than in healthy subjects. *Experimental Brain Research*, **1993**, 97, 173-6	2.3	74
56	The effect of a contralateral contraction on maximal voluntary activation and central fatigue in elbow flexor muscles. *Experimental Brain Research*, **2003**, 150, 308-13	2.3	69
55	Evidence suggesting that a transcortical reflex pathway contributes to cutaneous reflexes in the tibialis anterior muscle during walking in man. *Experimental Brain Research*, **1999**, 124, 59-68	2.3	68
54	Interaction of transcranial magnetic stimulation and electrical transmastoid stimulation in human subjects. *Journal of Physiology*, **2002**, 541, 949-58	3.9	65
53	The effect of electrical stimulation of the corticospinal tract on motor units of the human biceps brachii. *Journal of Physiology*, **2002**, 544, 277-84	3.9	64
52	Depression of activity in the corticospinal pathway during human motor behavior after strong voluntary contractions. *Journal of Neuroscience*, **2003**, 23, 7974-80	6.6	59
51	Evidence favouring different descending pathways to soleus motoneurones activated by magnetic brain stimulation in man. *Journal of Physiology*, **1995**, 486 (Pt 3), 779-88	3.9	58
50	Synchronization of lower limb motor unit activity during walking in human subjects. *Journal of Neurophysiology*, **2001**, 86, 1266-76	3.2	57
49	The effect of baclofen on the transmission in spinal pathways in spastic multiple sclerosis patients. *Clinical Neurophysiology*, **2000**, 111, 1372-9	4.3	56
48	Changes in the effect of magnetic brain stimulation accompanying voluntary dynamic contraction in man. *Journal of Physiology*, **1995**, 484 (Pt 3), 777-89	3.9	56
47	Evaluation of reciprocal inhibition of the soleus H-reflex during tonic plantar flexion in man. *Journal of Neuroscience Methods*, **1998**, 84, 1-8	3	50
46	The cerebral metabolic ratio is not affected by oxygen availability during maximal exercise in humans. *Journal of Physiology*, **2008**, 586, 107-12	3.9	48
45	Sulforhodamine 101 induces long-term potentiation of intrinsic excitability and synaptic efficacy in hippocampal CA1 pyramidal neurons. *Neuroscience*, **2010**, 169, 1601-9	3.9	47
44	Gating of somatosensory evoked potentials during voluntary movement of the lower limb in man. *Experimental Brain Research*, **1998**, 120, 143-52	2.3	47

43	Voluntary running enhances glymphatic influx in awake behaving, young mice. *Neuroscience Letters*, **2018**, 662, 253-258	3.3	44
42	Coupling of antagonistic ankle muscles during co-contraction in humans. *Experimental Brain Research*, **2002**, 146, 282-92	2.3	44
41	Differential changes in corticospinal and Ia input to tibialis anterior and soleus motor neurones during voluntary contraction in man. *Acta Physiologica Scandinavica*, **2000**, 170, 65-76		44
40	Cortical involvement in anticipatory postural reactions in man. *Experimental Brain Research*, **2009**, 193, 161-71	2.3	38
39	Probing the corticospinal link between the motor cortex and motoneurones: some neglected aspects of human motor cortical function. *Acta Physiologica*, **2010**, 198, 403-16	5.6	37
38	The nature of corticospinal paths driving human motoneurones during voluntary contractions. *Journal of Physiology*, **2007**, 584, 651-9	3.9	36
37	Recruitment of extensor-carpi-radialis motor units by transcranial magnetic stimulation and radial-nerve stimulation in human subjects. *Experimental Brain Research*, **1999**, 128, 557-62	2.3	36
36	Effects of erythropoietin administration on cerebral metabolism and exercise capacity in men. *Journal of Applied Physiology*, **2010**, 109, 476-83	3.7	35
35	Interaction between peripheral afferent activity and presynaptic inhibition of ia afferents in the cat. *Journal of Neurophysiology*, **2002**, 88, 1664-74	3.2	35
34	Stretch reflex regulation in healthy subjects and patients with spasticity. *Neuromodulation*, **2005**, 8, 49-57	3.1	34
33	Neck pain and postural balance among workers with high postural demands - a cross-sectional study. *BMC Musculoskeletal Disorders*, **2011**, 12, 176	2.8	33
32	Presynaptic control of transmission along the pathway mediating disynaptic reciprocal inhibition in the cat. *Journal of Physiology*, **2000**, 526 Pt 3, 623-37	3.9	29
31	Gait variability and motor control in people with knee osteoarthritis. *Gait and Posture*, **2015**, 42, 479-84	2.6	27
30	Watching your foot move--an fMRI study of visuomotor interactions during foot movement. *Cerebral Cortex*, **2007**, 17, 1906-17	5.1	27
29	Distribution of non-monosynaptic excitation to early and late recruited units in human forearm muscles. *Experimental Brain Research*, **2000**, 134, 274-8	2.3	26
28	Reciprocal inhibition and corticospinal transmission in the arm and leg in patients with autosomal dominant pure spastic paraparesis (ADPSP). *Brain*, **2004**, 127, 2693-702	11.2	24
27	Sulforhodamine 101, a widely used astrocyte marker, can induce cortical seizure-like activity at concentrations commonly used. *Scientific Reports*, **2016**, 6, 30433	4.9	24
26	Cortex-wide Changes in Extracellular Potassium Ions Parallel Brain State Transitions in Awake Behaving Mice. *Cell Reports*, **2019**, 28, 1182-1194.e4	10.6	22

25	Origin of the low-level EMG during the silent period following transcranial magnetic stimulation. *Clinical Neurophysiology*, **2012**, 123, 1409-14	4.3	21
24	Ia-afferent input to motoneurons during shortening and lengthening muscle contractions in humans. *Journal of Applied Physiology*, **2007**, 102, 144-8	3.7	18
23	Reduced reciprocal inhibition is seen only in spastic limbs in patients with neurolathyrism. *Experimental Brain Research*, **2007**, 181, 193-7	2.3	16
22	Patients with the major and minor form of hyperekplexia differ with regards to disynaptic reciprocal inhibition between ankle flexor and extensor muscles. *Experimental Brain Research*, **2001**, 140, 190-7	2.3	16
21	Differential effects of low-intensity motor cortical stimulation on the inspiratory activity in scalene muscles during voluntary and involuntary breathing. *Respiratory Physiology and Neurobiology*, **2011**, 175, 265-71	2.8	14
20	The effects of normoxia, hypoxia, and hyperoxia on cerebral haemoglobin saturation using near infrared spectroscopy during maximal exercise. *International Journal of Industrial Ergonomics*, **2010**, 40, 190-196	2.9	13
19	Corticospinal function during human walking. *Annals of the New York Academy of Sciences*, **1998**, 860, 546-9	6.5	13
18	Changes in presumed motor cortical activity during fatiguing muscle contraction in humans. *Acta Physiologica*, **2010**, 199, 317-26	5.6	12
17	Corticospinal transmission to leg motoneurones in human subjects with deficient glycinergic inhibition. *Journal of Physiology*, **2002**, 544, 631-40	3.9	11
16	Effect of Home-Based High-Intensity Interval Training in Patients With Lacunar Stroke: A Randomized Controlled Trial. *Frontiers in Neurology*, **2019**, 10, 664	4.1	10
15	Movement behavior of high-heeled walking: how does the nervous system control the ankle joint during an unstable walking condition?. *PLoS ONE*, **2012**, 7, e37390	3.7	10
14	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, 1196-210	3.2	9
13	Corticospinal transmission after voluntary contractions. *Advances in Experimental Medicine and Biology*, **2002**, 508, 435-41	3.6	9
12	Understanding central fatigue: where to go?. *Experimental Physiology*, **2007**, 92, 369-70	2.4	7
11	Unexpected reflex response to transmastoid stimulation in human subjects during near-maximal effort. *Journal of Physiology*, **2001**, 536, 305-12	3.9	7
10	Changes in motor cortex excitability preceding voluntary ramp-and-hold plantarflexion in man. *Acta Physiologica Scandinavica*, **1992**, 146, 399-400		6
9	Grid-climbing Behaviour as a Pain Measure for Cancer-induced Bone Pain and Neuropathic Pain. *In Vivo*, **2017**, 31, 619-623	2.3	5
8	"Graded Cycling Test with Talk Test" Is a Reliable Test to Monitor Cardiovascular Fitness in Patients with Minor Stroke. *Journal of Stroke and Cerebrovascular Diseases*, **2017**, 26, 494-499	2.8	4

7	Home-based aerobic exercise in patients with lacunar stroke: Design of the HITPALS randomized controlled trial. *Contemporary Clinical Trials Communications*, **2019**, 14, 100332	1.8	4
6	Self-Reported Physical Activity and Cardiovascular Disease Risk Factors in Patients with Lacunar Stroke. *Journal of Stroke and Cerebrovascular Diseases*, **2019**, 28, 2168-2176	2.8	1
5	Abstract WP191: Short-term Follow-up After Early Home-based High-intensity Interval Training in Stroke. *Stroke*, **2019**, 50,	6.7	1
4	The brain does not take up lactate during exercise in hypoxia. *FASEB Journal*, **2007**, 21, A1386	0.9	1
3	The Effect of Hyperoxia on Central and Peripheral Factors of Arm Flexor Muscles Fatigue Following Maximal Ergometer Rowing in Men.. *Frontiers in Physiology*, **2022**, 13, 829097	4.6	
2	The cerebral metabolic ratio is 1.7 during maximal wholebody exercise in humans. *FASEB Journal*, **2007**, 21, A836	0.9	
1	The effect of hyperoxia on cortical activation following maximal whole body exercise in humans. *FASEB Journal*, **2012**, 26, lb747	0.9	