John G Semmler

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3,783 60 32 93 h-index g-index citations papers 109 4,293 3.4 5.59 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
93	Mechanisms that contribute to differences in motor performance between young and old adults. Journal of Electromyography and Kinesiology, 2003 , 13, 1-12	2.5	393
92	Training adaptations in the behavior of human motor units. <i>Journal of Applied Physiology</i> , 2006 , 101, 1766-75	3.7	204
91	Motor unit discharge and force tremor in skill- and strength-trained individuals. <i>Experimental Brain Research</i> , 1998 , 119, 27-38	2.3	161
90	Motor unit synchronization and neuromuscular performance. <i>Exercise and Sport Sciences Reviews</i> , 2002 , 30, 8-14	6.7	158
89	Age-related differences in corticospinal control during functional isometric contractions in left and right hands. <i>Journal of Applied Physiology</i> , 2005 , 99, 1483-93	3.7	129
88	Motor-unit activity differs with load type during a fatiguing contraction. <i>Journal of Neurophysiology</i> , 2005 , 93, 1381-92	3.2	125
87	Corticomotor plasticity and learning of a ballistic thumb training task are diminished in older adults. <i>Journal of Applied Physiology</i> , 2009 , 107, 1874-83	3.7	125
86	Motor cortex plasticity induced by paired associative stimulation is enhanced in physically active individuals. <i>Journal of Physiology</i> , 2009 , 587, 5831-42	3.9	120
85	Neural adaptations to strength training: moving beyond transcranial magnetic stimulation and reflex studies. <i>Acta Physiologica</i> , 2011 , 202, 119-40	5.6	106
84	Motor unit synchronisation is enhanced during slow lengthening contractions of a hand muscle. <i>Journal of Physiology</i> , 2002 , 545, 681-95	3.9	105
83	A single bout of aerobic exercise promotes motor cortical neuroplasticity. <i>Journal of Applied Physiology</i> , 2013 , 114, 1174-82	3.7	104
82	Motor-unit synchronization is not responsible for larger motor-unit forces in old adults. <i>Journal of Neurophysiology</i> , 2000 , 84, 358-66	3.2	98
81	Long-term activity in upper- and lower-limb muscles of humans. <i>Journal of Applied Physiology</i> , 2001 , 91, 2224-32	3.7	92
80	Corticomotor excitability and plasticity following complex visuomotor training in young and old adults. <i>European Journal of Neuroscience</i> , 2011 , 34, 1847-56	3.5	85
79	Eccentric exercise increases EMG amplitude and force fluctuations during submaximal contractions of elbow flexor muscles. <i>Journal of Applied Physiology</i> , 2007 , 103, 979-89	3.7	80
78	Motor-unit coherence and its relation with synchrony are influenced by training. <i>Journal of Neurophysiology</i> , 2004 , 92, 3320-31	3.2	80
77	Motor unit synchronization is increased in biceps brachii after exercise-induced damage to elbow flexor muscles. <i>Journal of Neurophysiology</i> , 2008 , 99, 1008-19	3.2	73

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76	Reduced motor cortex plasticity following inhibitory rTMS in older adults. <i>Clinical Neurophysiology</i> , 2010 , 121, 441-7	4.3	70
75	Gender differences in the fatigability of human skeletal muscle. <i>Journal of Neurophysiology</i> , 1999 , 82, 3590-3	3.2	66
74	Inter- and intra-subject variability of motor cortex plasticity following continuous theta-burst stimulation. <i>Neuroscience</i> , 2015 , 304, 266-78	3.9	65
73	Motor-unit coherence during isometric contractions is greater in a hand muscle of older adults. Journal of Neurophysiology, 2003 , 90, 1346-9	3.2	62
72	Differential modulation of motor cortex excitability in BDNF Met allele carriers following experimentally induced and use-dependent plasticity. <i>European Journal of Neuroscience</i> , 2012 , 36, 2640-	-3 ·5	60
71	Limb immobilization alters muscle activation patterns during a fatiguing isometric contraction. <i>Muscle and Nerve</i> , 2000 , 23, 1381-92	3.4	58
70	Hemispheric differences in use-dependent corticomotor plasticity in young and old adults. <i>Experimental Brain Research</i> , 2010 , 205, 57-68	2.3	57
69	Relationship between motor unit short-term synchronization and common drive in human first dorsal interosseous muscle. <i>Brain Research</i> , 1997 , 767, 314-20	3.7	56
68	Influence of handedness on motor unit discharge properties and force tremor. <i>Experimental Brain Research</i> , 1995 , 104, 115-25	2.3	56
67	Hemispheric differences in motor cortex excitability during a simple index finger abduction task in humans. <i>Journal of Neurophysiology</i> , 1998 , 79, 1246-54	3.2	53
66	Low-frequency common modulation of soleus motor unit discharge is enhanced during postural control in humans. <i>Experimental Brain Research</i> , 2006 , 175, 584-95	2.3	52
65	Priming theta burst stimulation enhances motor cortex plasticity in young but not old adults. <i>Brain Stimulation</i> , 2017 , 10, 298-304	5.1	50
64	A comparison of cross-correlation and surface EMG techniques used to quantify motor unit synchronization in humans. <i>Journal of Neuroscience Methods</i> , 1999 , 90, 47-55	3	43
63	Age-related differences in short- and long-interval intracortical inhibition in a human hand muscle. <i>Brain Stimulation</i> , 2014 , 7, 665-72	5.1	40
62	Low-frequency fatigue and neuromuscular performance after exercise-induced damage to elbow flexor muscles. <i>Journal of Applied Physiology</i> , 2008 , 105, 1146-55	3.7	37
61	Age-related changes in corticospinal excitability and intracortical inhibition after upper extremity motor learning: a systematic review and meta-analysis. <i>Neurobiology of Aging</i> , 2017 , 55, 61-71	5.6	32
60	Investigating TMS-EEG Indices of Long-Interval Intracortical Inhibition at Different Interstimulus Intervals. <i>Brain Stimulation</i> , 2017 , 10, 65-74	5.1	31
59	Adaptations in biceps brachii motor unit activity after repeated bouts of eccentric exercise in elbow flexor muscles. <i>Journal of Neurophysiology</i> , 2011 , 105, 1225-35	3.2	31

58	Eccentric muscle damage has variable effects on motor unit recruitment thresholds and discharge patterns in elbow flexor muscles. <i>Journal of Neurophysiology</i> , 2009 , 102, 413-23	3.2	30
57	Diminished task-related adjustments of common inputs to hand muscle motor neurons in older adults. <i>Experimental Brain Research</i> , 2006 , 172, 507-18	2.3	26
56	Increased intracortical inhibition in elderly adults with anterior-posterior current flow: A TMS study. <i>Clinical Neurophysiology</i> , 2016 , 127, 635-640	4.3	25
55	Eccentric muscle damage increases intermuscular coherence during a fatiguing isometric contraction. <i>Acta Physiologica</i> , 2013 , 208, 362-75	5.6	25
54	Compound group I excitatory input is differentially distributed to motoneurons of the human tibialis anterior. <i>Neuroscience Letters</i> , 1994 , 178, 206-10	3.3	25
53	A comparison of two methods for estimating 50% of the maximal motor evoked potential. <i>Clinical Neurophysiology</i> , 2015 , 126, 2337-41	4.3	24
52	Effects of hyperglycemia on cortical response to esophageal distension in normal subjects. Digestive Diseases and Sciences, 1999 , 44, 279-85	4	24
51	Age-related Differences in Pre- and Post-synaptic Motor Cortex Inhibition are Task Dependent. <i>Brain Stimulation</i> , 2015 , 8, 926-36	5.1	23
50	Motor cortex plasticity induced by theta burst stimulation is impaired in patients with obstructive sleep apnoea. <i>European Journal of Neuroscience</i> , 2013 , 37, 1844-52	3.5	23
49	Cortical inhibition assessed using paired-pulse TMS-EEG is increased in older adults. <i>Brain Stimulation</i> , 2018 , 11, 545-557	5.1	22
48	Probing changes in corticospinal excitability following theta burst stimulation of the human primary motor cortex. <i>Clinical Neurophysiology</i> , 2016 , 127, 740-747	4.3	21
47	Motor unit activity after eccentric exercise and muscle damage in humans. <i>Acta Physiologica</i> , 2014 , 210, 754-67	5.6	21
46	Modulation of short- and long-interval intracortical inhibition with increasing motor evoked potential amplitude in a human hand muscle. <i>Clinical Neurophysiology</i> , 2014 , 125, 1440-50	4.3	19
45	Motor unit synchronization measured by cross-correlation is not influenced by short-term strength training of a hand muscle. <i>Experimental Brain Research</i> , 2006 , 175, 745-53	2.3	19
44	Acute Exercise at Different Intensities Influences Corticomotor Excitability and Performance of a Ballistic Thumb Training Task. <i>Neuroscience</i> , 2019 , 412, 29-39	3.9	18
43	Impaired neuromuscular function during isometric, shortening, and lengthening contractions after exercise-induced damage to elbow flexor muscles. <i>Journal of Applied Physiology</i> , 2008 , 105, 502-9	3.7	18
42	Supplementary motor area-primary motor cortex facilitation in younger but not older adults. <i>Neurobiology of Aging</i> , 2018 , 64, 85-91	5.6	17
41	Reduced short-interval intracortical inhibition after eccentric muscle damage in human elbow flexor muscles. <i>Journal of Applied Physiology</i> , 2012 , 113, 929-36	3.7	17

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40	Crossed motor innervation of the base of human tongue. Journal of Neurophysiology, 2015, 113, 3499-5	51502	16	
39	Modulating motor cortical neuroplasticity with priming paired associative stimulation in young and old adults. <i>Clinical Neurophysiology</i> , 2017 , 128, 763-769	4.3	15	
38	Age-related changes in late I-waves influence motor cortex plasticity induction in older adults. Journal of Physiology, 2018 , 596, 2597-2609	3.9	15	
37	FUNCTIONAL OUTCOMES AFTER DISTAL BICEPS BRACHII REPAIR: A CASE SERIES. <i>International Journal of Sports Physical Therapy</i> , 2016 , 11, 962-970	1.4	13	
36	Task-related changes in intracortical inhibition assessed with paired- and triple-pulse transcranial magnetic stimulation. <i>Journal of Neurophysiology</i> , 2015 , 113, 1470-9	3.2	12	
35	Short-term immobilization influences use-dependent cortical plasticity and fine motor performance. <i>Neuroscience</i> , 2016 , 330, 247-56	3.9	12	
34	Mechanisms of the deep, slow-wave, sleep-related increase of upper airway muscle tone in healthy humans. <i>Journal of Applied Physiology</i> , 2017 , 122, 1304-1312	3.7	11	
33	Intracortical Inhibition Assessed with Paired-Pulse Transcranial Magnetic Stimulation is Modulated during Shortening and Lengthening Contractions in Young and Old Adults. <i>Brain Stimulation</i> , 2016 , 9, 258-67	5.1	11	
32	The medial sural artery as recipient vessel and the impact on the medial gastrocnemius. <i>Annals of Plastic Surgery</i> , 2011 , 67, 382-6	1.7	11	
31	Age-related changes in late synaptic inputs to corticospinal neurons and their functional significance: A paired-pulse TMS study. <i>Brain Stimulation</i> , 2020 , 13, 239-246	5.1	11	
30	Transcranial Magnetic Stimulation-Electroencephalography Measures of Cortical Neuroplasticity Are Altered after Mild Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2019 , 36, 2774-2784	5.4	10	
29	Conventional or threshold-hunting TMS? A tale of two SICIs. <i>Brain Stimulation</i> , 2018 , 11, 1296-1305	5.1	10	
28	Intermittent single-joint fatiguing exercise reduces TMS-EEG measures of cortical inhibition. Journal of Neurophysiology, 2019 , 121, 471-479	3.2	9	
27	Motor unit activity in upper airway muscles genioglossus and tensor palatini. <i>Respiratory Physiology and Neurobiology</i> , 2013 , 188, 362-9	2.8	8	
26	Increasing motor cortex plasticity with spaced paired associative stimulation at different intervals in older adults. <i>European Journal of Neuroscience</i> , 2017 , 46, 2674-2683	3.5	7	
25	Preferential Activation of Unique Motor Cortical Networks With Transcranial Magnetic Stimulation: A Review of the Physiological, Functional, and Clinical Evidence. <i>Neuromodulation</i> , 2021 , 24, 813-828	3.1	7	
24	The effect of hyperglycaemia on cerebral potentials evoked by rapid rectal distension in healthy humans. <i>European Journal of Clinical Investigation</i> , 1999 , 29, 512-8	4.6	6	
23	Older Adults Differentially Modulate Transcranial Magnetic Stimulation-Electroencephalography Measures of Cortical Inhibition during Maximal Single-joint Exercise. <i>Neuroscience</i> , 2020 , 425, 181-193	3.9	6	

22	Visuomotor task acquisition is reduced by priming paired associative stimulation in older adults. <i>Neurobiology of Aging</i> , 2019 , 81, 67-76	5.6	5
21	Primary motor cortex function and motor skill acquisition: insights from threshold-hunting TMS. <i>Experimental Brain Research</i> , 2020 , 238, 1745-1757	2.3	5
20	Load-dependent modulation of alpha oscillations during working memory encoding and retention in young and older adults. <i>Psychophysiology</i> , 2021 , 58, e13719	4.1	5
19	Investigating the influence of paired-associative stimulation on multi-session skill acquisition and retention in older adults. <i>Clinical Neurophysiology</i> , 2020 , 131, 1497-1507	4.3	4
18	Common drive to the upper airway muscle genioglossus during inspiratory loading. <i>Journal of Neurophysiology</i> , 2015 , 114, 2883-92	3.2	4
17	Characterising the influence of cerebellum on the neuroplastic modulation of intracortical motor circuits. <i>PLoS ONE</i> , 2020 , 15, e0236005	3.7	4
16	TMS coil orientation and muscle activation influence lower limb intracortical excitability. <i>Brain Research</i> , 2020 , 1746, 147027	3.7	3
15	Interactions Between Cerebellum and the Intracortical Excitatory Circuits of Motor Cortex: a Mini-Review. <i>Cerebellum</i> , 2021 , 1	4.3	2
14	Single joint fatiguing exercise decreases long but not short-interval intracortical inhibition in older adults. <i>Experimental Brain Research</i> , 2021 , 239, 47-58	2.3	2
13	Exercise, effort, and limb position sense. <i>Journal of Applied Physiology</i> , 2006 , 100, 1099-100	3.7	1
12	Motor cortex plasticity and visuomotor skill learning in upper and lower limbs of endurance-trained cyclists. <i>European Journal of Applied Physiology</i> , 2021 , 1	3.4	1
11	Load-dependent modulation of alpha oscillations during working memory encoding and retention in young and older adults		1
10	The Role of Alpha Power in the Suppression of Anticipated Distractors During Verbal Working Memory. <i>Brain Topography</i> , 2021 , 34, 102-109	4.3	1
9	Age-related changes in motor cortex plasticity assessed with non-invasive brain stimulation: an update and new perspectives. <i>Experimental Brain Research</i> , 2021 , 239, 2661-2678	2.3	O
8	Exercise can help rewire the brain: neuroplasticity and motor cortex function in physically active individuals 2011 , 26-28		
7	Does predictive cueing of presentation time modulate alpha power and facilitate visual working memory performance in younger and older adults?. <i>Brain and Cognition</i> , 2022 , 159, 105861	2.7	
6	Characterising the influence of cerebellum on the neuroplastic modulation of intracortical motor circuits 2020 , 15, e0236005		
5	Characterising the influence of cerebellum on the neuroplastic modulation of intracortical motor circuits 2020 , 15, e0236005		

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- Characterising the influence of cerebellum on the neuroplastic modulation of intracortical motor circuits **2020**, 15, e0236005
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