John G Semmler

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/7305377/john-g-semmler-publications-by-year.pdf

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

60 3,783 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	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	
92	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
91	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
90	Interactions Between Cerebellum and the Intracortical Excitatory Circuits of Motor Cortex: a Mini-Review. <i>Cerebellum</i> , 2021 , 1	4.3	2
89	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
88	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
87	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
86	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	0
85	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
84	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
83	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
82	Characterising the influence of cerebellum on the neuroplastic modulation of intracortical motor circuits. <i>PLoS ONE</i> , 2020 , 15, e0236005	3.7	4
81	TMS coil orientation and muscle activation influence lower limb intracortical excitability. <i>Brain Research</i> , 2020 , 1746, 147027	3.7	3
80	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
79	Characterising the influence of cerebellum on the neuroplastic modulation of intracortical motor circuits 2020 , 15, e0236005		
78	Characterising the influence of cerebellum on the neuroplastic modulation of intracortical motor circuits 2020 , 15, e0236005		
77	Characterising the influence of cerebellum on the neuroplastic modulation of intracortical motor circuits 2020 , 15, e0236005		

(2016-2020)

Characterising the influence of cerebellum on the neuroplastic modulation of intracortical motor 76 circuits 2020, 15, e0236005 Characterising the influence of cerebellum on the neuroplastic modulation of intracortical motor 75 circuits 2020, 15, e0236005 Characterising the influence of cerebellum on the neuroplastic modulation of intracortical motor 74 circuits **2020**, 15, e0236005 Acute Exercise at Different Intensities Influences Corticomotor Excitability and Performance of a 18 3.9 73 Ballistic Thumb Training Task. Neuroscience, 2019, 412, 29-39 Visuomotor task acquisition is reduced by priming paired associative stimulation in older adults. 5.6 5 72 Neurobiology of Aging, 2019, 81, 67-76 Transcranial Magnetic Stimulation-Electroencephalography Measures of Cortical Neuroplasticity 71 10 5.4 Are Altered after Mild Traumatic Brain Injury. Journal of Neurotrauma, 2019, 36, 2774-2784 Intermittent single-joint fatiguing exercise reduces TMS-EEG measures of cortical inhibition. 70 3.2 9 Journal of Neurophysiology, **2019**, 121, 471-479 Age-related changes in late I-waves influence motor cortex plasticity induction in older adults. 69 15 3.9 Journal of Physiology, **2018**, 596, 2597-2609 Cortical inhibition assessed using paired-pulse TMS-EEG is increased in older adults. Brain 68 22 5.1 Stimulation, 2018, 11, 545-557 Supplementary motor area-primary motor cortex facilitation in younger but not older adults. 67 5.6 17 Neurobiology of Aging, 2018, 64, 85-91 Conventional or threshold-hunting TMS? A tale of two SICIs. Brain Stimulation, 2018, 11, 1296-1305 66 5.1 10 Priming theta burst stimulation enhances motor cortex plasticity in young but not old adults. Brain 65 5.1 50 Stimulation, 2017, 10, 298-304 Mechanisms of the deep, slow-wave, sleep-related increase of upper airway muscle tone in healthy 64 3.7 11 humans. Journal of Applied Physiology, 2017, 122, 1304-1312 Age-related changes in corticospinal excitability and intracortical inhibition after upper extremity 63 5.6 32 motor learning: a systematic review and meta-analysis. Neurobiology of Aging, 2017, 55, 61-71 Modulating motor cortical neuroplasticity with priming paired associative stimulation in young and 62 4.3 15 old adults. Clinical Neurophysiology, 2017, 128, 763-769 Increasing motor cortex plasticity with spaced paired associative stimulation at different intervals 61 3.5 in older adults. European Journal of Neuroscience, 2017, 46, 2674-2683 Investigating TMS-EEG Indices of Long-Interval Intracortical Inhibition at Different Interstimulus 60 5.1 31 Intervals. Brain Stimulation, 2017, 10, 65-74 Short-term immobilization influences use-dependent cortical plasticity and fine motor 59 12 3.9 performance. Neuroscience, 2016, 330, 247-56

58	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
57	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
56	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
55	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
54	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
53	Inter- and intra-subject variability of motor cortex plasticity following continuous theta-burst stimulation. <i>Neuroscience</i> , 2015 , 304, 266-78	3.9	65
52	Crossed motor innervation of the base of human tongue. <i>Journal of Neurophysiology</i> , 2015 , 113, 3499-5	1302	16
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	Common drive to the upper airway muscle genioglossus during inspiratory loading. <i>Journal of Neurophysiology</i> , 2015 , 114, 2883-92	3.2	4
49	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
48	Motor unit activity after eccentric exercise and muscle damage in humans. <i>Acta Physiologica</i> , 2014 , 210, 754-67	5.6	21
47	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
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 activity in upper airway muscles genioglossus and tensor palatini. <i>Respiratory Physiology and Neurobiology</i> , 2013 , 188, 362-9	2.8	8
44	A single bout of aerobic exercise promotes motor cortical neuroplasticity. <i>Journal of Applied Physiology</i> , 2013 , 114, 1174-82	3.7	104
43	Eccentric muscle damage increases intermuscular coherence during a fatiguing isometric contraction. <i>Acta Physiologica</i> , 2013 , 208, 362-75	5.6	25
42	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
41	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

(2006-2012)

40	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	
39	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	
38	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	
37	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	
36	Neural adaptations to strength training: moving beyond transcranial magnetic stimulation and reflex studies. <i>Acta Physiologica</i> , 2011 , 202, 119-40	5.6	106	
35	Exercise can help rewire the brain: neuroplasticity and motor cortex function in physically active individuals 2011 , 26-28			
34	Reduced motor cortex plasticity following inhibitory rTMS in older adults. <i>Clinical Neurophysiology</i> , 2010 , 121, 441-7	4.3	70	
33	Hemispheric differences in use-dependent corticomotor plasticity in young and old adults. <i>Experimental Brain Research</i> , 2010 , 205, 57-68	2.3	57	
32	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	
31	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	
30	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	
29	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	
28	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	
27	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	
26	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	
25	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	
24	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	
23	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	

22	Training adaptations in the behavior of human motor units. <i>Journal of Applied Physiology</i> , 2006 , 101, 1766-75	3.7	204
21	Exercise, effort, and limb position sense. <i>Journal of Applied Physiology</i> , 2006 , 100, 1099-100	3.7	1
20	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
19	Motor-unit activity differs with load type during a fatiguing contraction. <i>Journal of Neurophysiology</i> , 2005 , 93, 1381-92	3.2	125
18	Motor-unit coherence and its relation with synchrony are influenced by training. <i>Journal of Neurophysiology</i> , 2004 , 92, 3320-31	3.2	80
17	Motor-unit coherence during isometric contractions is greater in a hand muscle of older adults. <i>Journal of Neurophysiology</i> , 2003 , 90, 1346-9	3.2	62
16	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
15	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
14	Motor unit synchronization and neuromuscular performance. <i>Exercise and Sport Sciences Reviews</i> , 2002 , 30, 8-14	6.7	158
13	Long-term activity in upper- and lower-limb muscles of humans. <i>Journal of Applied Physiology</i> , 2001 , 91, 2224-32	3.7	92
12	Limb immobilization alters muscle activation patterns during a fatiguing isometric contraction. <i>Muscle and Nerve</i> , 2000 , 23, 1381-92	3.4	58
11	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
10	Gender differences in the fatigability of human skeletal muscle. <i>Journal of Neurophysiology</i> , 1999 , 82, 3590-3	3.2	66
9	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
8	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
7	Effects of hyperglycemia on cortical response to esophageal distension in normal subjects. <i>Digestive Diseases and Sciences</i> , 1999 , 44, 279-85	4	24
6	Motor unit discharge and force tremor in skill- and strength-trained individuals. <i>Experimental Brain Research</i> , 1998 , 119, 27-38	2.3	161
5	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

LIST OF PUBLICATIONS

4	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
3	Influence of handedness on motor unit discharge properties and force tremor. <i>Experimental Brain Research</i> , 1995 , 104, 115-25	2.3	56
2	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
1	Load-dependent modulation of alpha oscillations during working memory encoding and retention in young and older adults		1