

# Leonardo G Cohen

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3212159/leonardo-g-cohen-publications-by-citations.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.

233  
papers

32,576  
citations

94  
h-index

179  
g-index

238  
ext. papers

36,674  
ext. citations

5.8  
avg, IF

7.15  
L-index

#	Paper	IF	Citations
233	Transcranial direct current stimulation: State of the art 2008. <i>Brain Stimulation</i> , <b>2008</b> , 1, 206-23	5.1	2020
232	Transcranial DC stimulation (tDCS): a tool for double-blind sham-controlled clinical studies in brain stimulation. <i>Clinical Neurophysiology</i> , <b>2006</b> , 117, 845-50	4.3	1192
231	Noninvasive cortical stimulation enhances motor skill acquisition over multiple days through an effect on consolidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 1590-5	11.5	960
230	Direct current stimulation promotes BDNF-dependent synaptic plasticity: potential implications for motor learning. <i>Neuron</i> , <b>2010</b> , 66, 198-204	13.9	944
229	Rapid plasticity of human cortical movement representation induced by practice. <i>Journal of Neurophysiology</i> , <b>1998</b> , 79, 1117-23	3.2	875
228	Effects of non-invasive cortical stimulation on skilled motor function in chronic stroke. <i>Brain</i> , <b>2005</b> , 128, 490-9	11.2	829
227	Functional relevance of cross-modal plasticity in blind humans. <i>Nature</i> , <b>1997</b> , 389, 180-3	50.4	792
226	Neuroplasticity subserving motor skill learning. <i>Neuron</i> , <b>2011</b> , 72, 443-54	13.9	737
225	Harnessing neuroplasticity for clinical applications. <i>Brain</i> , <b>2011</b> , 134, 1591-609	11.2	685
224	Non-invasive brain stimulation: a new strategy to improve neurorehabilitation after stroke?. <i>Lancet Neurology</i> , <b>2006</b> , 5, 708-12	24.1	619
223	Brain-machine interface in chronic stroke rehabilitation: a controlled study. <i>Annals of Neurology</i> , <b>2013</b> , 74, 100-8	9.4	566
222	Effectiveness of virtual reality using Wii gaming technology in stroke rehabilitation: a pilot randomized clinical trial and proof of principle. <i>Stroke</i> , <b>2010</b> , 41, 1477-84	6.7	520
221	Brain-computer interfaces: communication and restoration of movement in paralysis. <i>Journal of Physiology</i> , <b>2007</b> , 579, 621-36	3.9	496
220	Motor learning elicited by voluntary drive. <i>Brain</i> , <b>2003</b> , 126, 866-72	11.2	466
219	Mechanisms of enhancement of human motor cortex excitability induced by interventional paired associative stimulation. <i>Journal of Physiology</i> , <b>2002</b> , 543, 699-708	3.9	465
218	Think to move: a neuromagnetic brain-computer interface (BCI) system for chronic stroke. <i>Stroke</i> , <b>2008</b> , 39, 910-7	6.7	457
217	A temporally asymmetric Hebbian rule governing plasticity in the human motor cortex. <i>Journal of Neurophysiology</i> , <b>2003</b> , 89, 2339-45	3.2	454

216	Mechanisms underlying recovery of motor function after stroke. <i>Archives of Neurology</i> , <b>2004</b> , 61, 1844-8		441
215	Consensus: Motor cortex plasticity protocols. <i>Brain Stimulation</i> , <b>2008</b> , 1, 164-82	5.1	433
214	Contribution of transcranial magnetic stimulation to the understanding of cortical mechanisms involved in motor control. <i>Journal of Physiology</i> , <b>2008</b> , 586, 325-51	3.9	409
213	A positron emission tomographic study of auditory localization in the congenitally blind. <i>Journal of Neuroscience</i> , <b>2000</b> , 20, 2664-72	6.6	384
212	Intracortical inhibition and facilitation in different representations of the human motor cortex. <i>Journal of Neurophysiology</i> , <b>1998</b> , 80, 2870-81	3.2	382
211	Noninvasive brain stimulation: from physiology to network dynamics and back. <i>Nature Neuroscience</i> , <b>2013</b> , 16, 838-44	25.5	368
210	Neuroplasticity in the context of motor rehabilitation after stroke. <i>Nature Reviews Neurology</i> , <b>2011</b> , 7, 76-85	15	353
209	Mechanisms of deafferentation-induced plasticity in human motor cortex. <i>Journal of Neuroscience</i> , <b>1998</b> , 18, 7000-7	6.6	343
208	Reorganization of motor and somatosensory cortex in upper extremity amputees with phantom limb pain. <i>Journal of Neuroscience</i> , <b>2001</b> , 21, 3609-18	6.6	336
207	Multimodal imaging of brain reorganization in motor areas of the contralesional hemisphere of well recovered patients after capsular stroke. <i>Brain</i> , <b>2006</b> , 129, 791-808	11.2	335
206	Effects of coil design on delivery of focal magnetic stimulation. Technical considerations. <i>Electroencephalography and Clinical Neurophysiology</i> , <b>1990</b> , 75, 350-7		330
205	Modulation of motor cortical outputs to the reading hand of braille readers. <i>Annals of Neurology</i> , <b>1993</b> , 34, 33-7	9.4	327
204	Reorganization of the human ipsilesional premotor cortex after stroke. <i>Brain</i> , <b>2004</b> , 127, 747-58	11.2	324
203	Time course of corticospinal excitability in reaction time and self-paced movements. <i>Annals of Neurology</i> , <b>1998</b> , 44, 317-25	9.4	318
202	Modulation of plasticity in human motor cortex after forearm ischemic nerve block. <i>Journal of Neuroscience</i> , <b>1998</b> , 18, 1115-23	6.6	305
201	Modulation of human corticomotor excitability by somatosensory input. <i>Journal of Physiology</i> , <b>2002</b> , 540, 623-33	3.9	298
200	Formation of a motor memory by action observation. <i>Journal of Neuroscience</i> , <b>2005</b> , 25, 9339-46	6.6	287
199	State of the art: Pharmacologic effects on cortical excitability measures tested by transcranial magnetic stimulation. <i>Brain Stimulation</i> , <b>2008</b> , 1, 151-63	5.1	284

198	Period of susceptibility for cross-modal plasticity in the blind. <i>Annals of Neurology</i> , <b>1999</b> , 45, 451-60	9.4	272
197	Involvement of the ipsilateral motor cortex in finger movements of different complexities. <i>Annals of Neurology</i> , <b>1997</b> , 41, 247-54	9.4	271
196	Rapid modulation of human cortical motor outputs following ischaemic nerve block. <i>Brain</i> , <b>1993</b> , 116 ( Pt 3), 511-25	11.2	264
195	Mechanisms of cortical reorganization in lower-limb amputees. <i>Journal of Neuroscience</i> , <b>1998</b> , 18, 3443-50	6.6	256
194	Transcallosal inhibition in chronic subcortical stroke. <i>NeuroImage</i> , <b>2005</b> , 28, 940-6	7.9	245
193	Consensus paper: combining transcranial stimulation with neuroimaging. <i>Brain Stimulation</i> , <b>2009</b> , 2, 58-80	9.1	239
192	Constraint-induced therapy in stroke: magnetic-stimulation motor maps and cerebral activation. <i>Neurorehabilitation and Neural Repair</i> , <b>2003</b> , 17, 48-57	4.7	229
191	Mechanisms underlying functional changes in the primary motor cortex ipsilateral to an active hand. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 5631-40	6.6	218
190	Transcranial magnetic stimulation of the occipital pole interferes with verbal processing in blind subjects. <i>Nature Neuroscience</i> , <b>2004</b> , 7, 1266-70	25.5	207
189	Reward improves long-term retention of a motor memory through induction of offline memory gains. <i>Current Biology</i> , <b>2011</b> , 21, 557-62	6.3	196
188	Improvement of motor function with noninvasive cortical stimulation in a patient with chronic stroke. <i>Neurorehabilitation and Neural Repair</i> , <b>2005</b> , 19, 14-9	4.7	196
187	Efficacy and safety of non-immersive virtual reality exercising in stroke rehabilitation (EVREST): a randomised, multicentre, single-blind, controlled trial. <i>Lancet Neurology</i> , <b>2016</b> , 15, 1019-27	24.1	192
186	Efficacy of repetitive transcranial magnetic stimulation/transcranial direct current stimulation in cognitive neurorehabilitation. <i>Brain Stimulation</i> , <b>2008</b> , 1, 326-36	5.1	192
185	Inhibitory influence of the ipsilateral motor cortex on responses to stimulation of the human cortex and pyramidal tract. <i>Journal of Physiology</i> , <b>1998</b> , 510 ( Pt 1), 249-59	3.9	191
184	Consensus: "Can tDCS and TMS enhance motor learning and memory formation?". <i>Brain Stimulation</i> , <b>2008</b> , 1, 363-369	5.1	191
183	Intermanual Differences in movement-related interhemispheric inhibition. <i>Journal of Cognitive Neuroscience</i> , <b>2007</b> , 19, 204-13	3.1	188
182	Brain-machine interfaces in neurorehabilitation of stroke. <i>Neurobiology of Disease</i> , <b>2015</b> , 83, 172-9	7.5	185
181	Effects of action observation on physical training after stroke. <i>Stroke</i> , <b>2008</b> , 39, 1814-20	6.7	177

180	Postexercise depression of motor evoked potentials: a measure of central nervous system fatigue. <i>Experimental Brain Research</i> , <b>1993</b> , 93, 181-4	2.3	174
179	Enhancing encoding of a motor memory in the primary motor cortex by cortical stimulation. <i>Journal of Neurophysiology</i> , <b>2004</b> , 91, 2110-6	3.2	169
178	Effects of tDCS on motor learning and memory formation: A consensus and critical position paper. <i>Clinical Neurophysiology</i> , <b>2017</b> , 128, 589-603	4.3	166
177	Somatosensory stimulation enhances the effects of training functional hand tasks in patients with chronic stroke. <i>Archives of Physical Medicine and Rehabilitation</i> , <b>2007</b> , 88, 1369-76	2.8	162
176	Biomarkers of stroke recovery: Consensus-based core recommendations from the Stroke Recovery and Rehabilitation Roundtable. <i>International Journal of Stroke</i> , <b>2017</b> , 12, 480-493	6.3	161
175	Modulation of training by single-session transcranial direct current stimulation to the intact motor cortex enhances motor skill acquisition of the paretic hand. <i>Stroke</i> , <b>2012</b> , 43, 2185-91	6.7	160
174	Role of the ipsilateral motor cortex in voluntary movement. <i>Canadian Journal of Neurological Sciences</i> , <b>1997</b> , 24, 284-91	1	158
173	Cortical excitability changes induced by deafferentation of the contralateral hemisphere. <i>Brain</i> , <b>2002</b> , 125, 1402-13	11.2	157
172	Neuroenhancement of the aging brain: restoring skill acquisition in old subjects. <i>Annals of Neurology</i> , <b>2013</b> , 73, 10-5	9.4	150
171	Effects of combined peripheral nerve stimulation and brain polarization on performance of a motor sequence task after chronic stroke. <i>Stroke</i> , <b>2009</b> , 40, 1764-71	6.7	147
170	Dopaminergic influences on formation of a motor memory. <i>Annals of Neurology</i> , <b>2005</b> , 58, 121-30	9.4	147
169	Studies of neuroplasticity with transcranial magnetic stimulation. <i>Journal of Clinical Neurophysiology</i> , <b>1998</b> , 15, 305-24	2.2	143
168	Brain-Computer Interface-Based Communication in the Completely Locked-In State. <i>PLoS Biology</i> , <b>2017</b> , 15, e1002593	9.7	142
167	Influence of electric somatosensory stimulation on paretic-hand function in chronic stroke. <i>Archives of Physical Medicine and Rehabilitation</i> , <b>2006</b> , 87, 351-7	2.8	137
166	Facilitating skilled right hand motor function in older subjects by anodal polarization over the left primary motor cortex. <i>Neurobiology of Aging</i> , <b>2010</b> , 31, 2160-8	5.6	134
165	Encoding a motor memory in the older adult by action observation. <i>NeuroImage</i> , <b>2006</b> , 29, 677-84	7.9	128
164	Role of voluntary drive in encoding an elementary motor memory. <i>Journal of Neurophysiology</i> , <b>2005</b> , 93, 1099-103	3.2	126
163	Central fatigue as revealed by postexercise decrement of motor evoked potentials. <i>Muscle and Nerve</i> , <b>1994</b> , 17, 713-9	3.4	126

162	Neurophysiological mechanisms involved in transfer of procedural knowledge. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 1045-53	6.6	125
161	Effects of different viewing perspectives on somatosensory activations during observation of touch. <i>Human Brain Mapping</i> , <b>2009</b> , 30, 2722-30	5.9	124
160	Rewiring the brain: potential role of the premotor cortex in motor control, learning, and recovery of function following brain injury. <i>Neurorehabilitation and Neural Repair</i> , <b>2012</b> , 26, 282-92	4.7	124
159	Enhanced tactile spatial acuity and cortical processing during acute hand deafferentation. <i>Nature Neuroscience</i> , <b>2002</b> , 5, 936-8	25.5	121
158	Effects of somatosensory stimulation on motor function in chronic cortico-subcortical strokes. <i>Journal of Neurology</i> , <b>2007</b> , 254, 333-9	5.5	117
157	Noninvasive brain stimulation in stroke rehabilitation. <i>NeuroRx</i> , <b>2006</b> , 3, 474-81		116
156	Non-invasive brain stimulation in neurorehabilitation: local and distant effects for motor recovery. <i>Frontiers in Human Neuroscience</i> , <b>2014</b> , 8, 378	3.3	114
155	Functional connectivity between somatosensory and visual cortex in early blind humans. <i>European Journal of Neuroscience</i> , <b>2004</b> , 20, 1923-7	3.5	113
154	Common mechanisms of human perceptual and motor learning. <i>Nature Reviews Neuroscience</i> , <b>2012</b> , 13, 658-64	13.5	112
153	Drivers of brain plasticity. <i>Current Opinion in Neurology</i> , <b>2005</b> , 18, 667-74	7.1	111
152	Probing for hemispheric specialization for motor skill learning: a transcranial direct current stimulation study. <i>Journal of Neurophysiology</i> , <b>2011</b> , 106, 652-61	3.2	109
151	Effects of somatosensory stimulation on motor function after subacute stroke. <i>Neurorehabilitation and Neural Repair</i> , <b>2010</b> , 24, 263-72	4.7	108
150	Mechanisms influencing acquisition and recall of motor memories. <i>Journal of Neurophysiology</i> , <b>2002</b> , 88, 2114-23	3.2	108
149	Controversy: Noninvasive and invasive cortical stimulation show efficacy in treating stroke patients. <i>Brain Stimulation</i> , <b>2008</b> , 1, 370-82	5.1	107
148	Improved picture naming in aphasia patients treated with cathodal tDCS to inhibit the right Broca's homologue area. <i>Restorative Neurology and Neuroscience</i> , <b>2011</b> , 29, 141-52	2.8	105
147	Rigor and reproducibility in research with transcranial electrical stimulation: An NIMH-sponsored workshop. <i>Brain Stimulation</i> , <b>2018</b> , 11, 465-480	5.1	104
146	Improvement of spatial tactile acuity by transcranial direct current stimulation. <i>Clinical Neurophysiology</i> , <b>2008</b> , 119, 805-11	4.3	102
145	Parietofrontal integrity determines neural modulation associated with grasping imagery after stroke. <i>Brain</i> , <b>2012</b> , 135, 596-614	11.2	101

144	Effects of somatosensory stimulation on use-dependent plasticity in chronic stroke. <i>Stroke</i> , <b>2006</b> , 37, 246-7	6.7	101
143	Enduring representational plasticity after somatosensory stimulation. <i>NeuroImage</i> , <b>2005</b> , 27, 872-84	7.9	98
142	A theoretical calculation of the electric field induced by magnetic stimulation of a peripheral nerve. <i>Muscle and Nerve</i> , <b>1990</b> , 13, 734-41	3.4	98
141	Neuroimaging in stroke recovery: a position paper from the First International Workshop on Neuroimaging and Stroke Recovery. <i>Cerebrovascular Diseases</i> , <b>2004</b> , 18, 260-7	3.2	97
140	Time- but not sleep-dependent consolidation of tDCS-enhanced visuomotor skills. <i>Cerebral Cortex</i> , <b>2015</b> , 25, 109-17	5.1	94
139	Recovery of function in humans: cortical stimulation and pharmacological treatments after stroke. <i>Neurobiology of Disease</i> , <b>2010</b> , 37, 243-51	7.5	94
138	Simple reaction time to focal transcranial magnetic stimulation. Comparison with reaction time to acoustic, visual and somatosensory stimuli. <i>Brain</i> , <b>1992</b> , 115 Pt 1, 109-22	11.2	90
137	Multimodal output mapping of human central motor representation on different spatial scales. <i>Journal of Physiology</i> , <b>1998</b> , 512 ( Pt 1), 163-79	3.9	88
136	Modification of existing human motor memories is enabled by primary cortical processing during memory reactivation. <i>Current Biology</i> , <b>2010</b> , 20, 1545-9	6.3	87
135	Training-dependent plasticity in patients with multiple sclerosis. <i>Brain</i> , <b>2004</b> , 127, 2506-17	11.2	85
134	Visual and motor cortex excitability: a transcranial magnetic stimulation study. <i>Clinical Neurophysiology</i> , <b>2002</b> , 113, 1501-4	4.3	83
133	Contribution of transcranial magnetic stimulation to the understanding of functional recovery mechanisms after stroke. <i>Neurorehabilitation and Neural Repair</i> , <b>2010</b> , 24, 125-35	4.7	82
132	Integrated motor cortical control of task-related muscles during pointing in humans. <i>Journal of Neurophysiology</i> , <b>2002</b> , 87, 3006-17	3.2	82
131	Modulation of rodent cortical motor excitability by somatosensory input. <i>Experimental Brain Research</i> , <b>2002</b> , 142, 562-9	2.3	80
130	Reproducibility of intracortical inhibition and facilitation using the paired-pulse paradigm. <i>Muscle and Nerve</i> , <b>2000</b> , 23, 1594-7	3.4	80
129	Noninvasive stimulation of prefrontal cortex strengthens existing episodic memories and reduces forgetting in the elderly. <i>Frontiers in Aging Neuroscience</i> , <b>2014</b> , 6, 289	5.3	79
128	Interhemispheric inhibition in distal and proximal arm representations in the primary motor cortex. <i>Journal of Neurophysiology</i> , <b>2007</b> , 97, 2511-5	3.2	73
127	Volition and imagery in neurorehabilitation. <i>Cognitive and Behavioral Neurology</i> , <b>2006</b> , 19, 135-40	1.6	73

126	Biomarkers of Stroke Recovery: Consensus-Based Core Recommendations from the Stroke Recovery and Rehabilitation Roundtable. <i>Neurorehabilitation and Neural Repair</i> , <b>2017</b> , 31, 864-876	4.7	72
125	Transcranial magnetic stimulation in mild to severe hemiparesis early after stroke: a proof of principle and novel approach to improve motor function. <i>Journal of Neurology</i> , <b>2012</b> , 259, 1399-405	5.5	71
124	Transcranial magnetic stimulation in the rat. <i>Experimental Brain Research</i> , <b>2001</b> , 140, 112-21	2.3	68
123	A method for determining optimal interelectrode spacing for cerebral topographic mapping. <i>Electroencephalography and Clinical Neurophysiology</i> , <b>1989</b> , 72, 355-61		68
122	Improving Motor Corticothalamic Communication After Stroke Using Real-Time fMRI Connectivity-Based Neurofeedback. <i>Neurorehabilitation and Neural Repair</i> , <b>2016</b> , 30, 671-5	4.7	67
121	The Olympic brain. Does corticospinal plasticity play a role in acquisition of skills required for high-performance sports?. <i>Journal of Physiology</i> , <b>2008</b> , 586, 65-70	3.9	64
120	Enhancement of human cortico-motoneuronal excitability by the selective norepinephrine reuptake inhibitor reboxetine. <i>Neuroscience Letters</i> , <b>2002</b> , 330, 231-4	3.3	64
119	Mechanisms of short-term training-induced reaching improvement in severely hemiparetic stroke patients: a TMS study. <i>Neurorehabilitation and Neural Repair</i> , <b>2011</b> , 25, 398-411	4.7	60
118	Steady-state movement-related cortical potentials: a new approach to assessing cortical activity associated with fast repetitive finger movements. <i>Electroencephalography and Clinical Neurophysiology</i> , <b>1997</b> , 102, 106-13		59
117	Causal role of prefrontal cortex in strengthening of episodic memories through reconsolidation. <i>Current Biology</i> , <b>2013</b> , 23, 2181-4	6.3	58
116	Mechanisms controlling motor output to a transfer hand after learning a sequential pinch force skill with the opposite hand. <i>Clinical Neurophysiology</i> , <b>2009</b> , 120, 1859-65	4.3	57
115	Mechanisms underlying human motor system plasticity. <i>Muscle and Nerve</i> , <b>2001</b> , 24, 602-13	3.4	57
114	Neural plasticity and its contribution to functional recovery. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , <b>2013</b> , 110, 3-12	3	56
113	Predicting motor improvement after stroke with clinical assessment and diffusion tensor imaging. <i>Neurology</i> , <b>2016</b> , 86, 1924-5	6.5	54
112	Double dissociation of working memory load effects induced by bilateral parietal modulation. <i>Neuropsychologia</i> , <b>2012</b> , 50, 396-402	3.2	52
111	Noninvasive brain stimulation in neurorehabilitation. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , <b>2013</b> , 116, 499-524	3	52
110	Recovery of motor function after stroke. <i>Developmental Psychobiology</i> , <b>2012</b> , 54, 254-62	3	52
109	Influence of somatosensory input on interhemispheric interactions in patients with chronic stroke. <i>Neurorehabilitation and Neural Repair</i> , <b>2008</b> , 22, 477-85	4.7	52

108	A theoretical comparison of electric and magnetic stimulation of the brain. <i>Annals of Biomedical Engineering</i> , <b>1991</b> , 19, 317-28	4.7	50
107	Interference with existing memories alters offline intrinsic functional brain connectivity. <i>Neuron</i> , <b>2014</b> , 81, 69-76	13.9	48
106	Interhemispheric interactions between the human primary somatosensory cortices. <i>PLoS ONE</i> , <b>2011</b> , 6, e16150	3.7	47
105	Using repetitive transcranial magnetic stimulation to study the underlying neural mechanisms of human motor learning and memory. <i>Journal of Physiology</i> , <b>2011</b> , 589, 21-8	3.9	46
104	Kinematic specificity of cortical reorganization associated with motor training. <i>NeuroImage</i> , <b>2004</b> , 21, 1182-7	7.9	46
103	Stimulation-induced within-representation and across-representation plasticity in human motor cortex. <i>Journal of Neuroscience</i> , <b>2002</b> , 22, 5563-71	6.6	46
102	MR compatible force sensing system for real-time monitoring of wrist moments during fMRI testing. <i>Journal of Neuroscience Methods</i> , <b>2006</b> , 155, 300-7	3	45
101	Older adults get episodic memory boosting from noninvasive stimulation of prefrontal cortex during learning. <i>Neurobiology of Aging</i> , <b>2016</b> , 39, 210-216	5.6	44
100	Modulating reconsolidation: a link to causal systems-level dynamics of human memories. <i>Trends in Cognitive Sciences</i> , <b>2015</b> , 19, 475-82	14	43
99	Cortico-subcortical neuronal circuitry associated with reconsolidation of human procedural memories. <i>Cortex</i> , <b>2014</b> , 58, 281-8	3.8	43
98	Scaling of motor cortical excitability during unimanual force generation. <i>Cortex</i> , <b>2009</b> , 45, 1065-71	3.8	43
97	Modulation of motor learning and memory formation by non-invasive cortical stimulation of the primary motor cortex. <i>Neuropsychological Rehabilitation</i> , <b>2011</b> , 21, 650-75	3.1	42
96	A Rapid Form of Offline Consolidation in Skill Learning. <i>Current Biology</i> , <b>2019</b> , 29, 1346-1351.e4	6.3	41
95	Plastic changes in the human H-reflex pathway at rest following skillful cycling training. <i>Clinical Neurophysiology</i> , <b>2006</b> , 117, 1682-91	4.3	39
94	Motor callosal disconnection in early relapsing-remitting multiple sclerosis. <i>Human Brain Mapping</i> , <b>2011</b> , 32, 846-55	5.9	38
93	Methodology for non-invasive mapping of human motor cortex with electrical stimulation. <i>Electroencephalography and Clinical Neurophysiology</i> , <b>1988</b> , 69, 403-11		38
92	Enhancing Hebbian Learning to Control Brain Oscillatory Activity. <i>Cerebral Cortex</i> , <b>2015</b> , 25, 2409-15	5.1	37
91	The corticospinal system and transcranial magnetic stimulation in stroke. <i>Topics in Stroke Rehabilitation</i> , <b>2009</b> , 16, 254-69	2.6	37

90	Time-specific contribution of the supplementary motor area to intermanual transfer of procedural knowledge. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 9664-9	6.6	37
89	Brain-Machine Interface in Chronic Stroke: Randomized Trial Long-Term Follow-up. <i>Neurorehabilitation and Neural Repair</i> , <b>2019</b> , 33, 188-198	4.7	36
88	Learned EEG-based brain self-regulation of motor-related oscillations during application of transcranial electric brain stimulation: feasibility and limitations. <i>Frontiers in Behavioral Neuroscience</i> , <b>2014</b> , 8, 93	3.5	35
87	tACS Phase Locking of Frontal Midline Theta Oscillations Disrupts Working Memory Performance. <i>Frontiers in Cellular Neuroscience</i> , <b>2016</b> , 10, 120	6.1	35
86	Modifying somatosensory processing with non-invasive brain stimulation. <i>Restorative Neurology and Neuroscience</i> , <b>2011</b> , 29, 427-37	2.8	34
85	Dual modulating effects of amphetamine on neuronal excitability and stimulation-induced plasticity in human motor cortex. <i>Clinical Neurophysiology</i> , <b>2002</b> , 113, 1308-15	4.3	34
84	Modulation of motor function and cortical plasticity in health and disease. <i>Restorative Neurology and Neuroscience</i> , <b>2004</b> , 22, 261-8	2.8	34
83	Longitudinal Structural and Functional Differences Between Proportional and Poor Motor Recovery After Stroke. <i>Neurorehabilitation and Neural Repair</i> , <b>2017</b> , 31, 1029-1041	4.7	33
82	Primary motor cortex in stroke: a functional MRI-guided proton MR spectroscopic study. <i>Stroke</i> , <b>2011</b> , 42, 1004-9	6.7	33
81	Decoding upper limb residual muscle activity in severe chronic stroke. <i>Annals of Clinical and Translational Neurology</i> , <b>2015</b> , 2, 1-11	5.3	32
80	Modulation of effects of intermittent theta burst stimulation applied over primary motor cortex (M1) by conditioning stimulation of the opposite M1. <i>Journal of Neurophysiology</i> , <b>2009</b> , 102, 766-73	3.2	32
79	Translational studies in neurorehabilitation: from bench to bedside. <i>Cognitive and Behavioral Neurology</i> , <b>2006</b> , 19, 1-10	1.6	28
78	Differential Brain Mechanisms of Selection and Maintenance of Information during Working Memory. <i>Journal of Neuroscience</i> , <b>2019</b> , 39, 3728-3740	6.6	27
77	Modulation of H-reflex excitability by tetanic stimulation. <i>Clinical Neurophysiology</i> , <b>2004</b> , 115, 858-61	4.3	27
76	PreSMA stimulation changes task-free functional connectivity in the fronto-basal-ganglia that correlates with response inhibition efficiency. <i>Human Brain Mapping</i> , <b>2016</b> , 37, 3236-49	5.9	27
75	Practice and sleep form different aspects of skill. <i>Nature Communications</i> , <b>2014</b> , 5, 3407	17.4	26
74	A case for the involvement of phonological loop in sentence comprehension. <i>Neuropsychologia</i> , <b>2010</b> , 48, 4003-11	3.2	26
73	Limitations of electromyography and magnetic stimulation for assessing laryngeal muscle control. <i>Annals of Otology, Rhinology and Laryngology</i> , <b>1994</b> , 103, 16-27	2.1	24

72	Sensorimotor Oscillatory Phase-Power Interaction Gates Resting Human Corticospinal Output. <i>Cerebral Cortex</i> , <b>2019</b> , 29, 3766-3777	5.1	24
71	Neural Substrates of Motor Recovery in Severely Impaired Stroke Patients With Hand Paralysis. <i>Neurorehabilitation and Neural Repair</i> , <b>2016</b> , 30, 328-38	4.7	23
70	Stochastic reinforcement benefits skill acquisition. <i>Learning and Memory</i> , <b>2014</b> , 21, 140-2	2.8	23
69	Simultaneous transcranial direct current stimulation (tDCS) and whole-head magnetoencephalography (MEG): assessing the impact of tDCS on slow cortical magnetic fields. <i>NeuroImage</i> , <b>2016</b> , 140, 33-40	7.9	22
68	Transcranial Direct Current Stimulation Enhances Motor Skill Learning but Not Generalization in Chronic Stroke. <i>Neurorehabilitation and Neural Repair</i> , <b>2018</b> , 32, 295-308	4.7	22
67	Plasticity of cortical hand muscle representation in patients with hemifacial spasm. <i>Neuroscience Letters</i> , <b>1999</b> , 272, 33-6	3.3	22
66	Repetitive Peripheral Sensory Stimulation and Upper Limb Performance in Stroke: A Systematic Review and Meta-analysis. <i>Neurorehabilitation and Neural Repair</i> , <b>2018</b> , 32, 863-871	4.7	22
65	Reversed timing-dependent associative plasticity in the human brain through interhemispheric interactions. <i>Journal of Neurophysiology</i> , <b>2013</b> , 109, 2260-71	3.2	20
64	Time course of determination of movement direction in the reaction time task in humans. <i>Journal of Neurophysiology</i> , <b>2001</b> , 86, 1195-201	3.2	19
63	Low-Frequency Brain Oscillations Track Motor Recovery in Human Stroke. <i>Annals of Neurology</i> , <b>2019</b> , 86, 853-865	9.4	18
62	Nonparetic arm force does not overinhibit the paretic arm in chronic poststroke hemiparesis. <i>Archives of Physical Medicine and Rehabilitation</i> , <b>2014</b> , 95, 849-56	2.8	18
61	Motor cortex excitability in patients with cerebellar degeneration. <i>Clinical Neurophysiology</i> , <b>2000</b> , 111, 1157-64	4.3	18
60	A Preliminary Comparison of Motor Learning Across Different Non-invasive Brain Stimulation Paradigms Shows No Consistent Modulations. <i>Frontiers in Neuroscience</i> , <b>2018</b> , 12, 253	5.1	17
59	Transcranial direct current stimulation facilitates response inhibition through dynamic modulation of the fronto-basal ganglia network. <i>Brain Stimulation</i> , <b>2020</b> , 13, 96-104	5.1	17
58	Interhemispheric asymmetry of corticomotor excitability after chronic cerebellar infarcts. <i>Cerebellum</i> , <b>2010</b> , 9, 398-404	4.3	16
57	Lasting deficit in inhibitory control with mild traumatic brain injury. <i>Scientific Reports</i> , <b>2017</b> , 7, 14902	4.9	15
56	Baseline frontostriatal-limbic connectivity predicts reward-based memory formation. <i>Human Brain Mapping</i> , <b>2014</b> , 35, 5921-31	5.9	15
55	Cortical mechanisms of recovery of function after stroke. <i>NeuroRehabilitation</i> , <b>1998</b> , 10, 131-42	2	15

54	Practice structure improves unconscious transitional memories by increasing synchrony in a premotor network. <i>Journal of Cognitive Neuroscience</i> , <b>2015</b> , 27, 1503-12	3.1	14
53	Combined Brain and Peripheral Nerve Stimulation in Chronic Stroke Patients With Moderate to Severe Motor Impairment. <i>Neuromodulation</i> , <b>2018</b> , 21, 176-183	3.1	14
52	Altered Human Memory Modification in the Presence of Normal Consolidation. <i>Cerebral Cortex</i> , <b>2016</b> , 26, 3828-3837	5.1	14
51	Brain structural substrates of reward dependence during behavioral performance. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 16433-41	6.6	14
50	Cortical map plasticity in humans. <i>Trends in Neurosciences</i> , <b>1992</b> , 15, 13-4	13.3	14
49	Motor cortical excitability in patients with poststroke epilepsy. <i>Epilepsia</i> , <b>2008</b> , 49, 117-24	6.4	13
48	Effects of somatosensory stimulation on the excitability of the unaffected hemisphere in chronic stroke patients. <i>Clinics</i> , <b>2008</b> , 63, 735-40	2.3	13
47	Translational neurorehabilitation research in the third world: what barriers to trial participation can teach us. <i>Stroke</i> , <b>2014</b> , 45, 1495-7	6.7	12
46	NIBS-driven brain plasticity. <i>Archives Italiennes De Biologie</i> , <b>2014</b> , 152, 247-58	1.1	12
45	Mechanisms of offline motor learning at a microscale of seconds in large-scale crowdsourced data. <i>Npj Science of Learning</i> , <b>2020</b> , 5, 7	6	11
44	Functional neuroimaging in motor recovery after stroke. <i>Topics in Stroke Rehabilitation</i> , <b>2005</b> , 12, 15-21	2.6	11
43	Transcutaneous spinal direct current stimulation improves locomotor learning in healthy humans. <i>Brain Stimulation</i> , <b>2019</b> , 12, 628-634	5.1	10
42	Handgrip-Related Activation in the Primary Motor Cortex Relates to Underlying Neuronal Metabolism After Stroke. <i>Neurorehabilitation and Neural Repair</i> , <b>2014</b> , 28, 433-42	4.7	10
41	Modulation of slow cortical potentials by transcranial magnetic stimulation in humans. <i>Neuroscience Letters</i> , <b>2002</b> , 324, 205-8	3.3	10
40	Plasticity of Sensorimotor Networks: Multiple Overlapping Mechanisms. <i>Neuroscientist</i> , <b>2017</b> , 23, 185-196	6.6	9
39	Re-stepping into the same river: competition problem rather than a reconsolidation failure in an established motor skill. <i>Scientific Reports</i> , <b>2017</b> , 7, 9406	4.9	9
38	Induction of LTD-like corticospinal plasticity by low-frequency rTMS depends on pre-stimulus phase of sensorimotor $\beta$ rhythm. <i>Brain Stimulation</i> , <b>2020</b> , 13, 1580-1587	5.1	9
37	Recrudescence of Focal Stroke Symptoms during Pain Management with Hydromorphone. <i>Frontiers in Neurology</i> , <b>2016</b> , 7, 50	4.1	8

36	Effect of foreknowledge on neural activity of primary "go" responses relates to response stopping and switching. <i>Frontiers in Human Neuroscience</i> , <b>2015</b> , 9, 34	3.3	7
35	Practice-induced plasticity in the human motor cortex <b>2003</b> , 90-106		7
34	Consolidation of human skill linked to waking hippocampo-neocortical replay. <i>Cell Reports</i> , <b>2021</b> , 35, 109193	10.6	7
33	Cycling, a tool for locomotor recovery after motor lesions?. <i>NeuroRehabilitation</i> , <b>2008</b> , 23, 67-80	2	7
32	Conscious recall of different aspects of skill memory. <i>Frontiers in Behavioral Neuroscience</i> , <b>2014</b> , 8, 233	3.5	6
31	Crossmodal encoding of motor sequence memories. <i>Psychological Research</i> , <b>2015</b> , 79, 318-26	2.5	4
30	Temporal similarity perfusion mapping: A standardized and model-free method for detecting perfusion deficits in stroke. <i>PLoS ONE</i> , <b>2017</b> , 12, e0185552	3.7	4
29	A window into the role of inhibitory and excitatory mechanisms of perception?. <i>Journal of Physiology</i> , <b>2000</b> , 529 Pt 2, 283	3.9	4
28	Distributed cortical structural properties contribute to motor cortical excitability and inhibition. <i>Brain Structure and Function</i> , <b>2018</b> , 223, 3801-3812	4	3
27	Brain-machine interfaces and transcranial stimulation: future implications for directing functional movement and improving function after spinal injury in humans. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , <b>2012</b> , 109, 435-44	3	3
26	The physiology of brain-computer interfaces. <i>Journal of Physiology</i> , <b>2007</b> , 579, 570-570	3.9	3
25	Bihemispheric plasticity after acute hand deafferentation. <i>Supplements To Clinical Neurophysiology</i> , <b>2003</b> , 56, 232-41		3
24	High level bilateral talks. Focus on "effect of low-frequency repetitive transcranial magnetic stimulation on interhemispheric inhibition". <i>Journal of Neurophysiology</i> , <b>2005</b> , 94, 1664-5	3.2	3
23	Phase-dependent transcranial magnetic stimulation of the lesioned hemisphere is accurate after stroke. <i>Brain Stimulation</i> , <b>2020</b> , 13, 1354-1357	5.1	3
22	Beta rhythm events predict corticospinal motor output. <i>Scientific Reports</i> , <b>2019</b> , 9, 18305	4.9	3
21	Statistical learning occurs during practice while high-order rule learning during rest period. <i>Npj Science of Learning</i> , <b>2021</b> , 6, 14	6	3
20	Susceptibility of consolidated procedural memory to interference is independent of its active task-based retrieval. <i>PLoS ONE</i> , <b>2019</b> , 14, e0210876	3.7	2
19	Reversing working memory decline in the elderly. <i>Nature Neuroscience</i> , <b>2019</b> , 22, 686-688	25.5	2

18	Cross-modal plasticity and deafferentation. <i>Cognitive Processing</i> , <b>2004</b> , 5, 152	1.5	2
17	Crowdsourcing in Cognitive and Systems Neuroscience. <i>Neuroscientist</i> , <b>2021</b> , 10738584211017018	7.6	2
16	3D-printed head models for navigated non-invasive brain stimulation. <i>Clinical Neurophysiology</i> , <b>2016</b> , 127, 3341-2	4.3	1
15	Plasticity and recovery of function. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , <b>2019</b> , 163, 473-483	3	1
14	From bench to bedside: influence of theories of plasticity on human neurorehabilitation 248-266		1
13	NEUROPLASTICITY. <i>Series on Bioengineering and Biomedical Engineering</i> , <b>2004</b> , 281-301		1
12	The Intersection of Offline Learning and Rehabilitation. <i>Frontiers in Human Neuroscience</i> , <b>2021</b> , 15, 667534	3.4	1
11	Treatment of Upper Limb Paresis With Repetitive Peripheral Nerve Sensory Stimulation and Motor Training: Study Protocol for a Randomized Controlled Trial. <i>Frontiers in Neurology</i> , <b>2020</b> , 11, 196	4.1	1
10	Phase-dependent offline enhancement of human motor memory. <i>Brain Stimulation</i> , <b>2021</b> , 14, 873-883	5.1	1
9	Reproducibility of intracortical inhibition and facilitation using the paired-pulse paradigm <b>2000</b> , 23, 1594		1
8	Reward and plasticity: Implications for neurorehabilitation.. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , <b>2022</b> , 184, 331-340	3	0
7	Repetitive Peripheral Sensory Stimulation as an Add-On Intervention for Upper Limb Rehabilitation in Stroke: A Randomized Trial. <i>Neurorehabilitation and Neural Repair</i> , <b>2021</b> , 15459683211046259	4.7	0
6	Exploratory studies: a crucial step towards better hypothesis-driven confirmatory research in brain stimulation. <i>Journal of Physiology</i> , <b>2017</b> , 595, 1013-1014	3.9	
5	Neuroplasticity. <i>Series on Bioengineering and Biomedical Engineering</i> , <b>2017</b> , 192-212		
4	Transcranial slow oscillatory stimulation drives consolidation of declarative memory by synchronization of the neocortex. <i>Future Neurology</i> , <b>2007</b> , 2, 173-177	1.5	
3	Functional relevance of cortical plasticity <b>2003</b> , 231-245		
2	Chapter 32 Modulation of cortical plasticity. <i>Supplements To Clinical Neurophysiology</i> , <b>2002</b> , 54, 210-215		
1	The prevalence of the Val66Met polymorphism in musicians: Possible evidence for compensatory neuroplasticity from a pilot study. <i>PLoS ONE</i> , <b>2021</b> , 16, e0245107	3.7	

