

Ulf Ziemann

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379
papers

32,005
citations

90
h-index

172
g-index

452
ext. papers

38,214
ext. citations

4.9
avg, IF

7.31
L-index

#	Paper	IF	Citations
379	Non-invasive electrical and magnetic stimulation of the brain, spinal cord, roots and peripheral nerves: Basic principles and procedures for routine clinical and research application. An updated report from an I.F.C.N. Committee. <i>Clinical Neurophysiology</i> , 2015 , 126, 1071-1107	4.3	1326
378	Evidence-based guidelines on the therapeutic use of repetitive transcranial magnetic stimulation (rTMS). <i>Clinical Neurophysiology</i> , 2014 , 125, 2150-2206	4.3	1209
377	Effects of antiepileptic drugs on motor cortex excitability in humans: a transcranial magnetic stimulation study. <i>Annals of Neurology</i> , 1996 , 40, 367-78	9.4	830
376	Interaction between intracortical inhibition and facilitation in human motor cortex. <i>Journal of Physiology</i> , 1996 , 496 (Pt 3), 873-81	3.9	792
375	Evidence-based guidelines on the therapeutic use of transcranial direct current stimulation (tDCS). <i>Clinical Neurophysiology</i> , 2017 , 128, 56-92	4.3	750
374	A practical guide to diagnostic transcranial magnetic stimulation: report of an IFCN committee. <i>Clinical Neurophysiology</i> , 2012 , 123, 858-82	4.3	657
373	Early consolidation in human primary motor cortex. <i>Nature</i> , 2002 , 415, 640-4	50.4	627
372	The effect of lorazepam on the motor cortical excitability in man. <i>Experimental Brain Research</i> , 1996 , 109, 127-35	2.3	585
371	Determinants of the induction of cortical plasticity by non-invasive brain stimulation in healthy subjects. <i>Journal of Physiology</i> , 2010 , 588, 2291-304	3.9	513
370	TMS and drugs. <i>Clinical Neurophysiology</i> , 2004 , 115, 1717-29	4.3	510
369	Low intensity transcranial electric stimulation: Safety, ethical, legal regulatory and application guidelines. <i>Clinical Neurophysiology</i> , 2017 , 128, 1774-1809	4.3	478
368	Learning modifies subsequent induction of long-term potentiation-like and long-term depression-like plasticity in human motor cortex. <i>Journal of Neuroscience</i> , 2004 , 24, 1666-72	6.6	444
367	The clinical diagnostic utility of transcranial magnetic stimulation: report of an IFCN committee. <i>Clinical Neurophysiology</i> , 2008 , 119, 504-532	4.3	438
366	Consensus: Motor cortex plasticity protocols. <i>Brain Stimulation</i> , 2008 , 1, 164-82	5.1	433
365	Modulation of brain plasticity in stroke: a novel model for neurorehabilitation. <i>Nature Reviews Neurology</i> , 2014 , 10, 597-608	15	418
364	Evidence-based guidelines on the therapeutic use of repetitive transcranial magnetic stimulation (rTMS): An update (2014-2018). <i>Clinical Neurophysiology</i> , 2020 , 131, 474-528	4.3	411
363	Short-interval paired-pulse inhibition and facilitation of human motor cortex: the dimension of stimulus intensity. <i>Journal of Physiology</i> , 2002 , 545, 153-67	3.9	406

362	The role of GABA(B) receptors in intracortical inhibition in the human motor cortex. <i>Experimental Brain Research</i> , 2006 , 173, 86-93	2.3	400
361	Intracortical inhibition and facilitation in different representations of the human motor cortex. <i>Journal of Neurophysiology</i> , 1998 , 80, 2870-81	3.2	382
360	Modulation of practice-dependent plasticity in human motor cortex. <i>Brain</i> , 2001 , 124, 1171-81	11.2	363
359	TMS and drugs revisited 2014. <i>Clinical Neurophysiology</i> , 2015 , 126, 1847-68	4.3	361
358	Role of the human motor cortex in rapid motor learning. <i>Experimental Brain Research</i> , 2001 , 136, 431-8	2.3	354
357	Mechanisms of deafferentation-induced plasticity in human motor cortex. <i>Journal of Neuroscience</i> , 1998 , 18, 7000-7	6.6	343
356	Decreased motor inhibition in Tourette's disorder: evidence from transcranial magnetic stimulation. <i>American Journal of Psychiatry</i> , 1997 , 154, 1277-84	11.9	338
355	Human motor corpus callosum: topography, somatotopy, and link between microstructure and function. <i>Journal of Neuroscience</i> , 2007 , 27, 12132-8	6.6	336
354	Dextromethorphan decreases the excitability of the human motor cortex. <i>Neurology</i> , 1998 , 51, 1320-4	6.5	334
353	Demonstration of facilitatory I wave interaction in the human motor cortex by paired transcranial magnetic stimulation. <i>Journal of Physiology</i> , 1998 , 511 (Pt 1), 181-90	3.9	323
352	Effects of low-frequency transcranial magnetic stimulation on motor excitability and basic motor behavior. <i>Clinical Neurophysiology</i> , 2000 , 111, 1002-7	4.3	313
351	Modulation of plasticity in human motor cortex after forearm ischemic nerve block. <i>Journal of Neuroscience</i> , 1998 , 18, 1115-23	6.6	305
350	State of the art: Pharmacologic effects on cortical excitability measures tested by transcranial magnetic stimulation. <i>Brain Stimulation</i> , 2008 , 1, 151-63	5.1	284
349	The relative metabolic demand of inhibition and excitation. <i>Nature</i> , 2000 , 406, 995-8	50.4	272
348	Interindividual variability and age-dependency of motor cortical plasticity induced by paired associative stimulation. <i>Experimental Brain Research</i> , 2008 , 187, 467-75	2.3	269
347	State of the art: Physiology of transcranial motor cortex stimulation. <i>Brain Stimulation</i> , 2008 , 1, 345-62	5.1	250
346	Consensus paper: combining transcranial stimulation with neuroimaging. <i>Brain Stimulation</i> , 2009 , 2, 58-80	9.1	239
345	Ten Years of Theta Burst Stimulation in Humans: Established Knowledge, Unknowns and Prospects. <i>Brain Stimulation</i> , 2016 , 9, 323-335	5.1	229

344	Dissociation of the pathways mediating ipsilateral and contralateral motor-evoked potentials in human hand and arm muscles. <i>Journal of Physiology</i> , 1999 , 518 (Pt 3), 895-906	3.9	224
343	Interference of short-interval intracortical inhibition (SICI) and short-interval intracortical facilitation (SICF). <i>Clinical Neurophysiology</i> , 2008 , 119, 2291-7	4.3	221
342	Neuromyelitis optica: Evaluation of 871 attacks and 1,153 treatment courses. <i>Annals of Neurology</i> , 2016 , 79, 206-16	9.4	219
341	Hemispheric asymmetry of transcallosal inhibition in man. <i>Experimental Brain Research</i> , 1995 , 104, 527-33	3.3	211
340	Inhibition of human motor cortex by ethanol. A transcranial magnetic stimulation study. <i>Brain</i> , 1995 , 118 (Pt 6), 1437-46	11.2	196
339	TMS-EEG signatures of GABAergic neurotransmission in the human cortex. <i>Journal of Neuroscience</i> , 2014 , 34, 5603-12	6.6	195
338	Crossed reduction of human motor cortex excitability by 1-Hz transcranial magnetic stimulation. <i>Neuroscience Letters</i> , 1998 , 250, 141-4	3.3	195
337	I-waves in motor cortex. <i>Journal of Clinical Neurophysiology</i> , 2000 , 17, 397-405	2.2	192
336	Non-invasive cerebellar stimulation--a consensus paper. <i>Cerebellum</i> , 2014 , 13, 121-38	4.3	191
335	Modifying motor learning through gating and homeostatic metaplasticity. <i>Brain Stimulation</i> , 2008 , 1, 60-6	5.1	191
334	Consensus: "Can tDCS and TMS enhance motor learning and memory formation?". <i>Brain Stimulation</i> , 2008 , 1, 363-369	5.1	191
333	Improving hand function in chronic stroke. <i>Archives of Neurology</i> , 2002 , 59, 1278-82		188
332	Transitions between dynamical states of differing stability in the human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 10948-53	11.5	185
331	Changes in human motor cortex excitability induced by dopaminergic and anti-dopaminergic drugs. <i>Electroencephalography and Clinical Neurophysiology - Electromyography and Motor Control</i> , 1997 , 105, 430-7		174
330	Spinal and supraspinal mechanisms contribute to the silent period in the contracting soleus muscle after transcranial magnetic stimulation of human motor cortex. <i>Neuroscience Letters</i> , 1993 , 156, 167-71	3.3	170
329	Transcranial magnetic stimulation and amyotrophic lateral sclerosis: pathophysiological insights. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2013 , 84, 1161-70	5.5	167
328	Effects of tDCS on motor learning and memory formation: A consensus and critical position paper. <i>Clinical Neurophysiology</i> , 2017 , 128, 589-603	4.3	166
327	Inhibitory circuits and the nature of their interactions in the human motor cortex a pharmacological TMS study. <i>Journal of Physiology</i> , 2008 , 586, 495-514	3.9	166

326	Plasticity induced by non-invasive transcranial brain stimulation: A position paper. <i>Clinical Neurophysiology</i> , 2017 , 128, 2318-2329	4.3	163
325	Neurophysiology of unimanual motor control and mirror movements. <i>Clinical Neurophysiology</i> , 2008 , 119, 744-62	4.3	161
324	Segregating two inhibitory circuits in human motor cortex at the level of GABAA receptor subtypes: a TMS study. <i>Clinical Neurophysiology</i> , 2007 , 118, 2207-14	4.3	159
323	Real-time EEG-defined excitability states determine efficacy of TMS-induced plasticity in human motor cortex. <i>Brain Stimulation</i> , 2018 , 11, 374-389	5.1	150
322	The contribution of transcranial magnetic stimulation in the functional evaluation of microcircuits in human motor cortex. <i>Frontiers in Neural Circuits</i> , 2013 , 7, 18	3.5	147
321	Hemispheric asymmetry of ipsilateral motor cortex activation during unimanual motor tasks: further evidence for motor dominance. <i>Clinical Neurophysiology</i> , 2001 , 112, 107-13	4.3	146
320	Homeostatic and nonhomeostatic modulation of learning in human motor cortex. <i>Journal of Neuroscience</i> , 2009 , 29, 5597-604	6.6	145
319	GABAA receptor subtype specific enhancement of inhibition in human motor cortex. <i>Journal of Physiology</i> , 2006 , 575, 721-6	3.9	143
318	Studies of neuroplasticity with transcranial magnetic stimulation. <i>Journal of Clinical Neurophysiology</i> , 1998 , 15, 305-24	2.2	143
317	Guiding transcranial brain stimulation by EEG/MEG to interact with ongoing brain activity and associated functions: A position paper. <i>Clinical Neurophysiology</i> , 2017 , 128, 843-857	4.3	140
316	A checklist for assessing the methodological quality of studies using transcranial magnetic stimulation to study the motor system: an international consensus study. <i>Clinical Neurophysiology</i> , 2012 , 123, 1698-704	4.3	138
315	Pharmacological control of facilitatory I-wave interaction in the human motor cortex. A paired transcranial magnetic stimulation study. <i>Electroencephalography and Clinical Neurophysiology - Electromyography and Motor Control</i> , 1998 , 109, 321-30		138
314	High-frequency repetitive transcranial magnetic stimulation delays rapid eye movement sleep. <i>NeuroReport</i> , 1998 , 9, 3439-43	1.7	136
313	Transcranial magnetic stimulation: its current role in epilepsy research. <i>Epilepsy Research</i> , 1998 , 30, 11-30		131
312	Metaplasticity in human cortex. <i>Neuroscientist</i> , 2015 , 21, 185-202	7.6	130
311	Safety and recommendations for TMS use in healthy subjects and patient populations, with updates on training, ethical and regulatory issues: Expert Guidelines. <i>Clinical Neurophysiology</i> , 2021 , 132, 269-306	4.3	130
310	Homeostatic plasticity in human motor cortex demonstrated by two consecutive sessions of paired associative stimulation. <i>European Journal of Neuroscience</i> , 2007 , 25, 3461-8	3.5	127
309	TMS induced plasticity in human cortex. <i>Reviews in the Neurosciences</i> , 2004 , 15, 253-66	4.7	126

308	Dissociated effects of diazepam and lorazepam on short-latency afferent inhibition. <i>Journal of Physiology</i> , 2005 , 569, 315-23	3.9	126
307	Enhancement of human motor cortex inhibition by the dopamine receptor agonist pergolide: evidence from transcranial magnetic stimulation. <i>Neuroscience Letters</i> , 1996 , 208, 187-90	3.3	126
306	Repetitive magnetic stimulation induces functional and structural plasticity of excitatory postsynapses in mouse organotypic hippocampal slice cultures. <i>Journal of Neuroscience</i> , 2012 , 32, 17514-23	6.6	124
305	Clinical utility and prospective of TMS-EEG. <i>Clinical Neurophysiology</i> , 2019 , 130, 802-844	4.3	123
304	The pharmacology of neuroplasticity induced by non-invasive brain stimulation: building models for the clinical use of CNS active drugs. <i>Journal of Physiology</i> , 2012 , 590, 4641-62	3.9	122
303	New graphical method to measure silent periods evoked by transcranial magnetic stimulation. <i>Clinical Neurophysiology</i> , 2001 , 112, 1451-60	4.3	120
302	Transient visual field defects induced by transcranial magnetic stimulation over human occipital pole. <i>Experimental Brain Research</i> , 1998 , 118, 19-26	2.3	115
301	Apheresis therapies for NMOSD attacks: A retrospective study of 207 therapeutic interventions. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2018 , 5, e504	9.1	111
300	Modulation of interhemispheric inhibition by volitional motor activity: an ipsilateral silent period study. <i>Journal of Physiology</i> , 2009 , 587, 5393-410	3.9	108
299	Cortical correlates of neuromotor development in healthy children. <i>Clinical Neurophysiology</i> , 2003 , 114, 1662-70	4.3	108
298	Complete suppression of voluntary motor drive during the silent period after transcranial magnetic stimulation. <i>Experimental Brain Research</i> , 1999 , 124, 447-54	2.3	105
297	Suppression of LTP-like plasticity in human motor cortex by the GABAB receptor agonist baclofen. <i>Experimental Brain Research</i> , 2007 , 180, 181-6	2.3	103
296	Extensive training of elementary finger tapping movements changes the pattern of motor cortex excitability. <i>Experimental Brain Research</i> , 2006 , 174, 199-209	2.3	101
295	Apixaban for treatment of embolic stroke of undetermined source (ATTICUS randomized trial): Rationale and study design. <i>International Journal of Stroke</i> , 2017 , 12, 985-990	6.3	100
294	Repetitive magnetic stimulation induces plasticity of inhibitory synapses. <i>Nature Communications</i> , 2016 , 7, 10020	17.4	96
293	The effects of motor cortex rTMS on corticospinal descending activity. <i>Clinical Neurophysiology</i> , 2010 , 121, 464-73	4.3	93
292	Closed-Loop Neuroscience and Non-Invasive Brain Stimulation: A Tale of Two Loops. <i>Frontiers in Cellular Neuroscience</i> , 2016 , 10, 92	6.1	92
291	Homeostatic metaplasticity of corticospinal excitatory and intracortical inhibitory neural circuits in human motor cortex. <i>Journal of Physiology</i> , 2012 , 590, 5765-81	3.9	91

290	Intraoperative motor evoked potential alteration in intracranial tumor surgery and its relation to signal alteration in postoperative magnetic resonance imaging. <i>Neurosurgery</i> , 2010 , 67, 302-13	3.2	90
289	Immunotherapies in neuromyelitis optica spectrum disorder: efficacy and predictors of response. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2017 , 88, 639-647	5.5	88
288	Characterization of GABAB-receptor mediated neurotransmission in the human cortex by paired-pulse TMS-EEG. <i>NeuroImage</i> , 2014 , 103, 152-162	7.9	88
287	Modification of practice-dependent plasticity in human motor cortex by neuromodulators. <i>Cerebral Cortex</i> , 2006 , 16, 1106-15	5.1	88
286	Changes in 5-HT1A and NMDA binding sites by a single rapid transcranial magnetic stimulation procedure in rats. <i>Brain Research</i> , 1999 , 826, 309-12	3.7	88
285	Coupling brain-machine interfaces with cortical stimulation for brain-state dependent stimulation: enhancing motor cortex excitability for neurorehabilitation. <i>Frontiers in Human Neuroscience</i> , 2014 , 8, 122	3.3	86
284	State-dependent and timing-dependent bidirectional associative plasticity in the human SMA-M1 network. <i>Journal of Neuroscience</i> , 2011 , 31, 15376-83	6.6	86
283	A model of TMS-induced I-waves in motor cortex. <i>Brain Stimulation</i> , 2014 , 7, 401-14	5.1	85
282	Working memory performance of early MS patients correlates inversely with modularity increases in resting state functional connectivity networks. <i>NeuroImage</i> , 2014 , 94, 385-395	7.9	82
281	Hysteresis effects on the input-output curve of motor evoked potentials. <i>Clinical Neurophysiology</i> , 2009 , 120, 1003-8	4.3	82
280	Two distinct interneuron circuits in human motor cortex are linked to different subsets of physiological and behavioral plasticity. <i>Journal of Neuroscience</i> , 2014 , 34, 12837-49	6.6	81
279	Plasticity resembling spike-timing dependent synaptic plasticity: the evidence in human cortex. <i>Frontiers in Synaptic Neuroscience</i> , 2010 , 2, 34	3.5	81
278	Interhemispheric motor inhibition: its role in controlling electromyographic mirror activity. <i>European Journal of Neuroscience</i> , 2008 , 28, 364-71	3.5	80
277	Reproducibility of intracortical inhibition and facilitation using the paired-pulse paradigm. <i>Muscle and Nerve</i> , 2000 , 23, 1594-7	3.4	80
276	Consensus Paper: Probing Homeostatic Plasticity of Human Cortex With Non-invasive Transcranial Brain Stimulation. <i>Brain Stimulation</i> , 2015 , 8, 442-54	5.1	78
275	Reply from Vincenzo Di Lazzaro, Fabio Pilato, Michele Dileone, Pietro A. Tonali and Ulf Ziemann. <i>Journal of Physiology</i> , 2005 , 569, 710-710	3.9	78
274	The associative brain at work: Evidence from paired associative stimulation studies in humans. <i>Clinical Neurophysiology</i> , 2017 , 128, 2140-2164	4.3	76
273	Novel multiple sclerosis susceptibility loci implicated in epigenetic regulation. <i>Science Advances</i> , 2016 , 2, e1501678	14.3	75

272	Saccade velocity is controlled by polyglutamine size in spinocerebellar ataxia 2. <i>Annals of Neurology</i> , 2004 , 56, 444-7	9.4	75
271	Consensus Paper: Probing Homeostatic Plasticity of Human Cortex With Non-invasive Transcranial Brain Stimulation. <i>Brain Stimulation</i> , 2015 , 8, 993-1006	5.1	74
270	Delay in simple reaction time after focal transcranial magnetic stimulation of the human brain occurs at the final motor output stage. <i>Brain Research</i> , 1997 , 744, 32-40	3.7	74
269	Saccade velocity is reduced in presymptomatic spinocerebellar ataxia type 2. <i>Clinical Neurophysiology</i> , 2009 , 120, 632-5	4.3	73
268	Functional connectivity between secondary and primary motor areas underlying hand-foot coordination. <i>Journal of Neurophysiology</i> , 2007 , 98, 414-22	3.2	73
267	Complex modulation of human motor cortex excitability by the specific serotonin re-uptake inhibitor sertraline. <i>Neuroscience Letters</i> , 2002 , 319, 116-20	3.3	73
266	Slowing fastest finger movements of the dominant hand with low-frequency rTMS of the hand area of the primary motor cortex. <i>Experimental Brain Research</i> , 2004 , 155, 196-203	2.3	72
265	Low-Frequency and Rare-Coding Variation Contributes to Multiple Sclerosis Risk. <i>Cell</i> , 2018 , 175, 1679-1687	6.7	72
264	Effective connectivity between human supplementary motor area and primary motor cortex: a paired-coil TMS study. <i>Experimental Brain Research</i> , 2012 , 220, 79-87	2.3	70
263	Brain State-Dependent Transcranial Magnetic Closed-Loop Stimulation Controlled by Sensorimotor Desynchronization Induces Robust Increase of Corticospinal Excitability. <i>Brain Stimulation</i> , 2016 , 9, 415-424	5.1	68
262	Inter-subject and Inter-session Variability of Plasticity Induction by Non-invasive Brain Stimulation: Boon or Bane?. <i>Brain Stimulation</i> , 2015 , 8, 662-3	5.1	68
261	Bridging the gap between motor imagery and motor execution with a brain-robot interface. <i>NeuroImage</i> , 2015 , 108, 319-27	7.9	67
260	Late cortical disinhibition in human motor cortex: a triple-pulse transcranial magnetic stimulation study. <i>Journal of Neurophysiology</i> , 2010 , 103, 511-8	3.2	67
259	Decreased neuronal inhibition in cerebral cortex in obsessive-compulsive disorder on transcranial magnetic stimulation. <i>Lancet, The</i> , 1998 , 352, 881-2	4.0	67
258	Pharmacological modulation of plasticity in the human motor cortex. <i>Neurorehabilitation and Neural Repair</i> , 2006 , 20, 243-51	4.7	67
257	Deficient homeostatic regulation of practice-dependent plasticity in writer's cramp. <i>Cerebral Cortex</i> , 2011 , 21, 1203-12	5.1	61
256	Cortical inhibition in attention deficit hyperactivity disorder: new insights from the electroencephalographic response to transcranial magnetic stimulation. <i>Brain</i> , 2012 , 135, 2215-30	11.2	60
255	The spectral features of EEG responses to transcranial magnetic stimulation of the primary motor cortex depend on the amplitude of the motor evoked potentials. <i>PLoS ONE</i> , 2017 , 12, e0184910	3.7	60

254	Insertable cardiac monitors after cryptogenic stroke--a risk factor based approach to enhance the detection rate for paroxysmal atrial fibrillation. <i>European Journal of Neurology</i> , 2016 , 23, 375-81	6	60
253	Reproducibility in TMS-EEG studies: A call for data sharing, standard procedures and effective experimental control. <i>Brain Stimulation</i> , 2019 , 12, 787-790	5.1	58
252	Neuromodulatory neurotransmitters influence LTP-like plasticity in human cortex: a pharmaco-TMS study. <i>Neuropsychopharmacology</i> , 2011 , 36, 1894-902	8.7	58
251	Fasciculations: clinical, electromyographic, and ultrasonographic assessment. <i>Journal of Neurology</i> , 1996 , 243, 579-84	5.5	58
250	Effects of the Selective β -GABAAR Antagonist S44819 on Excitability in the Human Brain: A TMS-EMG and TMS-EEG Phase I Study. <i>Journal of Neuroscience</i> , 2016 , 36, 12312-12320	6.6	58
249	Pergolide: treatment of choice in restless legs syndrome (RLS) and nocturnal myoclonus syndrome (NMS). A double-blind randomized crossover trial of pergolide versus L-Dopa. <i>Journal of Neural Transmission</i> , 1997 , 104, 461-8	4.3	57
248	Repetitive magnetic stimulation induces plasticity of excitatory postsynapses on proximal dendrites of cultured mouse CA1 pyramidal neurons. <i>Brain Structure and Function</i> , 2015 , 220, 3323-37	4	56
247	Inter-subject variability of LTD-like plasticity in human motor cortex: a matter of preceding motor activation. <i>Brain Stimulation</i> , 2014 , 7, 864-70	5.1	56
246	Transcranial magnetic stimulation at the interface with other techniques: a powerful tool for studying the human cortex. <i>Neuroscientist</i> , 2011 , 17, 368-81	7.6	56
245	Multimodal evoked potentials measure and predict disability progression in early relapsing-remitting multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2008 , 14, 553-6	5	55
244	Brain-robot interface driven plasticity: Distributed modulation of corticospinal excitability. <i>NeuroImage</i> , 2016 , 125, 522-532	7.9	54
243	Methods for analysis of brain connectivity: An IFCN-sponsored review. <i>Clinical Neurophysiology</i> , 2019 , 130, 1833-1858	4.3	54
242	Pharmaco-transcranial magnetic stimulation studies of motor excitability. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2013 , 116, 387-97	3	54
241	Movement related cortical potentials of cued versus self-initiated movements: double dissociated modulation by dorsal premotor cortex versus supplementary motor area rTMS. <i>Human Brain Mapping</i> , 2012 , 33, 824-39	5.9	54
240	Combined (1)H and (31)P spectroscopy provides new insights into the pathobiochemistry of brain damage in multiple sclerosis. <i>NMR in Biomedicine</i> , 2011 , 24, 536-46	4.4	54
239	Physiology of modulation of motor cortex excitability by low-frequency suprathreshold repetitive transcranial magnetic stimulation. <i>Experimental Brain Research</i> , 2006 , 171, 26-34	2.3	54
238	Methylphenidate facilitates and disinhibits the motor cortex in intact humans. <i>NeuroReport</i> , 2003 , 14, 773-6	1.7	54
237	Point-of-Care Testing of Coagulation in Patients Treated With Non-Vitamin K Antagonist Oral Anticoagulants. <i>Stroke</i> , 2015 , 46, 2741-7	6.7	53

236	Quantitative proton density mapping: correcting the receiver sensitivity bias via pseudo proton densities. <i>NeuroImage</i> , 2012 , 63, 540-52	7.9	51
235	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
234	Comparison of cortical EEG responses to realistic sham versus real TMS of human motor cortex. <i>Brain Stimulation</i> , 2018 , 11, 1322-1330	5.1	50
233	The impact of GABAergic drugs on TMS-induced brain oscillations in human motor cortex. <i>NeuroImage</i> , 2017 , 163, 1-12	7.9	50
232	Analogous corticocortical inhibition and facilitation in ipsilateral and contralateral human motor cortex representations of the tongue. <i>Journal of Clinical Neurophysiology</i> , 2001 , 18, 550-8	2.2	50
231	EEG-triggered TMS reveals stronger brain state-dependent modulation of motor evoked potentials at weaker stimulation intensities. <i>Brain Stimulation</i> , 2019 , 12, 110-118	5.1	49
230	Improving disability in stroke with RTMS. <i>Lancet Neurology</i> , 2005 , 4, 454-5	24.1	48
229	Reinforcement learning of self-regulated sensorimotor oscillations improves motor performance. <i>NeuroImage</i> , 2016 , 134, 142-152	7.9	47
228	Left dorsal speech stream components and their contribution to phonological processing. <i>Journal of Neuroscience</i> , 2015 , 35, 1411-22	6.6	46
227	Cerebellum to motor cortex paired associative stimulation induces bidirectional STDP-like plasticity in human motor cortex. <i>Frontiers in Human Neuroscience</i> , 2012 , 6, 260	3.3	46
226	Observation-execution matching and action inhibition in human primary motor cortex during viewing of speech-related lip movements or listening to speech. <i>Neuropsychologia</i> , 2011 , 49, 2045-54	3.2	46
225	Subtle hemispheric asymmetry of motor cortical inhibitory tone. <i>Clinical Neurophysiology</i> , 2004 , 115, 330-40	4.3	46
224	Stimulation-induced within-representation and across-representation plasticity in human motor cortex. <i>Journal of Neuroscience</i> , 2002 , 22, 5563-71	6.6	46
223	Resistant Against De-depression: LTD-Like Plasticity in the Human Motor Cortex Induced by Spaced cTBS. <i>Cerebral Cortex</i> , 2015 , 25, 1724-34	5.1	45
222	Interactions between short-interval intracortical inhibition and short-latency afferent inhibition in human motor cortex. <i>Journal of Physiology</i> , 2009 , 587, 5163-76	3.9	45
221	Thirty years of transcranial magnetic stimulation: where do we stand?. <i>Experimental Brain Research</i> , 2017 , 235, 973-984	2.3	44
220	In cold blood: intraarterial cold infusions for selective brain cooling in stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014 , 34, 743-52	7.3	44
219	Effects of antiepileptic drugs on associative LTP-like plasticity in human motor cortex. <i>European Journal of Neuroscience</i> , 2010 , 32, 1215-22	3.5	44

218	Altered seizure susceptibility after high-frequency transcranial magnetic stimulation in rats. <i>Neuroscience Letters</i> , 1999 , 273, 155-8	3.3	44
217	The ipsilateral silent period in boys with attention-deficit/hyperactivity disorder. <i>Clinical Neurophysiology</i> , 2005 , 116, 1889-96	4.3	43
216	Intracortical inhibition and facilitation in the conventional paired TMS paradigm. <i>Electroencephalography and Clinical Neurophysiology Supplement</i> , 1999 , 51, 127-36		43
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