Antonio Oliviero

List of Publications by Year
in descending order

146	15,269	34105 52	18647 119
papers	citations	h-index	g-index

155	155	155	11071
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evidence-based guidelines on the therapeutic use of repetitive transcranial magnetic stimulation (rTMS). Clinical Neurophysiology, 2014, 125, 2150-2206.	1.5	1,647
2	Evidence-based guidelines on the therapeutic use of repetitive transcranial magnetic stimulation (rTMS): An update (2014â€“2018). Clinical Neurophysiology, 2020, 131, 474-528.	1.5	1,017
3	Dopamine Dependency of Oscillations between Subthalamic Nucleus and Pallidum in Parkinson's Disease. Journal of Neuroscience, 2001, 21, 1033-1038.	3.6	1,004
4	A practical guide to diagnostic transcranial magnetic stimulation: Report of an IFCN committee. Clinical Neurophysiology, 2012, 123, 858-882.	1.5	944
5	Magnetic transcranial stimulation at intensities below active motor threshold activates intracortical inhibitory circuits. Experimental Brain Research, 1998, 119, 265-268.	1.5	562
6	Movementâ€related changes in synchronization in the human basal ganglia. Brain, 2002, 125, 1235-1246.	7.6	493
7	The physiological basis of transcranial motor cortex stimulation in conscious humans. Clinical Neurophysiology, 2004, 115, 255-266.	1.5	485
8	Dopamine-dependent changes in the functional connectivity between basal ganglia and cerebral cortex in humans. Brain, 2002, 125, 1558-1569.	7.6	463
9	Direct demonstration of the effect of lorazepam on the excitability of the human motor cortex. Clinical Neurophysiology, 2000, 111, 794-799.	1.5	382
10	Patterning of globus pallidus local field potentials differs between Parkinson's disease and dystonia. Brain, 2003, 126, 2597-2608.	7.6	373
11	Muscarinic receptor blockade has differential effects on the excitability of intracortical circuits in the human motor cortex. Experimental Brain Research, 2000, 135, 455-461.	1.5	339
12	Inhibition of motor system excitability at cortical and spinal level by tonic muscle pain. Clinical Neurophysiology, 2001, 112, 1633-1641.	1.5	330
13	Theta-burst repetitive transcranial magnetic stimulation suppresses specific excitatory circuits in the human motor cortex. Journal of Physiology, 2005, 565, 945-950.	2.9	327
14	I-wave origin and modulation. Brain Stimulation, 2012, 5, 512-525.	1.6	276
15	The physiological basis of the effects of intermittent theta burst stimulation of the human motor cortex. Journal of Physiology, 2008, 586, 3871-3879.	2.9	267
16	Direct demonstration of interhemispheric inhibition of the human motor cortex produced by transcranial magnetic stimulation. Experimental Brain Research, 1999, 124, 520-524.	1.5	248
17	Effects of stimulation of the subthalamic area on oscillatory pallidal activity in Parkinson's disease. Experimental Neurology, 2004, 188, 480-490.	4.1	233
18	The effect on corticospinal volleys of reversing the direction of current induced in the motor cortex by transcranial magnetic stimulation. Experimental Brain Research, 2001, 138, 268-273.	1.5	211

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19	Ketamine Increases Human Motor Cortex Excitability to Transcranial Magnetic Stimulation. Journal of Physiology, 2003, 547, 485-496.	2.9	208
20	Effects of lorazepam on short latency afferent inhibition and short latency intracortical inhibition in humans. Journal of Physiology, 2005, 564, 661-668.	2.9	196
21	Origin of Facilitation of Motor-Evoked Potentials After Paired Magnetic Stimulation: Direct Recording of Epidural Activity in Conscious Humans. Journal of Neurophysiology, 2006, 96, 1765-1771.	1.8	181
22	Neuropsychological and neurophysiological correlates of fatigue in post-acute patients with neurological manifestations of COVID-19: Insights into a challenging symptom. Journal of the Neurological Sciences, 2021, 420, 117271.	0.6	181
23	Repetitive transcranial magnetic stimulation of the supplementary motor area (SMA) degrades bimanual movement control in humans. Neuroscience Letters, 2002, 328, 89-92.	2.1	154
24	Prefrontal hemodynamic changes produced by anodal direct current stimulation. NeuroImage, 2010, 49, 2304-2310.	4.2	149
25	Intracortical origin of the short latency facilitation produced by pairs of threshold magnetic stimuli applied to human motor cortex. Experimental Brain Research, 1999, 129, 0494-0499.	1.5	138
26	Comparison of descending volleys evoked by monophasic and biphasic magnetic stimulation of the motor cortex in conscious humans. Experimental Brain Research, 2001, 141, 121-127.	1.5	138
27	Spinal Cord Injury Immediately Changes the State of the Brain. Journal of Neuroscience, 2010, 30, 7528-7537.	3.6	136
28	Transcranial static magnetic field stimulation of the human motor cortex. Journal of Physiology, 2011, 589, 4949-4958.	2.9	132
29	The diagnostic value of motor evoked potentials. Clinical Neurophysiology, 1999, 110, 1297-1307.	1.5	128
30	Short-term reduction of intracortical inhibition in the human motor cortex induced by repetitive transcranial magnetic stimulation. Experimental Brain Research, 2002, 147, 108-113.	1.5	119
31	The effects of motor cortex rTMS on corticospinal descending activity. Clinical Neurophysiology, 2010, 121, 464-473.	1.5	115
32	Inhibition of the human primary motor area by painful heat stimulation of the skin. Clinical Neurophysiology, 1999, 110, 1475-1480.	1.5	110
33	Static Magnetic Field Stimulation over the Visual Cortex Increases Alpha Oscillations and Slows Visual Search in Humans. Journal of Neuroscience, 2015, 35, 9182-9193.	3.6	108
34	The effects of subthreshold 1 Hz repetitive TMS on cortico-cortical and interhemispheric coherence. Clinical Neurophysiology, 2002, 113, 1279-1285.	1.5	102
35	Cortical reorganization after spinal cord injury: Always for good?. Neuroscience, 2014, 283, 78-94.	2.3	100
36	Direct demonstration of the effects of repetitive transcranial magnetic stimulation on the excitability of the human motor cortex. Experimental Brain Research, 2002, 144, 549-553.	1.5	98

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37	Human handedness and asymmetry of the motor cortical silent period. Experimental Brain Research, 1999, 128, 390-396.	1.5	94
38	Direct demonstration of long latency cortico-cortical inhibition in normal subjects and in a patient with vascular parkinsonism. Clinical Neurophysiology, 2002, 113, 1673-1679.	1.5	93
39	Effects of simultaneous bilateral tDCS of the human motor cortex. Brain Stimulation, 2012, 5, 214-222.	1.6	91
40	Tracheostomy timing in traumatic spinal cord injury. European Spine Journal, 2009, 18, 1452-1457.	2.2	88
41	Brain plasticity in recovery from stroke: An MEG assessment. NeuroImage, 2006, 32, 1326-1334.	4.2	84
42	Rhythmic brain activity at rest from rolandic areas in acute mono-hemispheric stroke: A magnetoencephalographic study. NeuroImage, 2005, 28, 72-83.	4.2	69
43	Spinal direct current stimulation modulates the activity of gracile nucleus and primary somatosensory cortex in anaesthetized rats. Journal of Physiology, 2011, 589, 4981-4996.	2.9	67
44	Occurrence of thyroid autoimmunity and dysfunction throughout a nine-month follow-up in patients undergoing interferon-Î² therapy for multiple sclerosis. Journal of Endocrinological Investigation, 1998, 21, 748-752.	3.3	63
45	Effects of voluntary contraction on descending volleys evoked by transcranial electrical stimulation over the motor cortex hand area in conscious humans. Experimental Brain Research, 1999, 124, 525-528.	1.5	63
46	Corticospinal volleys evoked by transcranial stimulation of the brain in conscious humans. Neurological Research, 2003, 25, 143-150.	1.3	63
47	Transcranial magnetic stimulation and BDNF plasma levels in amyotrophic lateral sclerosis. NeuroReport, 2004, 15, 717-720.	1.2	62
48	Lowâ€frequency repetitive transcranial magnetic stimulation suppresses specific excitatory circuits in the human motor cortex. Journal of Physiology, 2008, 586, 4481-4487.	2.9	59
49	Descending volleys evoked by transcranial magnetic stimulation of the brain in conscious humans: effects of coil shape. Clinical Neurophysiology, 2002, 113, 114-119.	1.5	58
50	Transcranial Direct Current Stimulation Effects on the Excitability of Corticospinal Axons of the Human Cerebral Cortex. Brain Stimulation, 2013, 6, 641-643.	1.6	56
51	Persistent effects of high frequency repetitive TMS on the coupling between motor areas in the human. Experimental Brain Research, 2003, 149, 107-113.	1.5	55
52	Oscillatory pallidal local field potential activity inversely correlates with limb dyskinesias in Parkinson's disease. Experimental Neurology, 2005, 194, 523-529.	4.1	54
53	Intracortical GABAergic dysfunction in patients with fatigue and dysexecutive syndrome after COVID-19. Clinical Neurophysiology, 2021, 132, 1138-1143.	1.5	54
54	LTD-like plasticity induced by paired associative stimulation: direct evidence in humans. Experimental Brain Research, 2009, 194, 661-664.	1.5	53

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55	Transcranial direct current stimulation effects on I-wave activity in humans. Journal of Neurophysiology, 2011, 105, 2802-2810.	1.8	53
56	Long-lasting effects of transcranial static magnetic field stimulation on motor cortex excitability. Brain Stimulation, 2018, 11, 676-688.	1.6	52
57	Inhibition of biceps brachii muscle motor area by painful heat stimulation of the skin. Experimental Brain Research, 2001, 139, 168-172.	1.5	50
58	Reduced sensorimotor inhibition in the ipsilesional motor cortex in a patient with chronic stroke of the paramedian thalamus. Clinical Neurophysiology, 2005, 116, 2592-2598.	1.5	50
59	Cortical correlates of TMS-induced phantom hand movements revealed with concurrent TMS-fMRI. Neuropsychologia, 2006, 44, 2959-2971.	1.6	50
60	COVID-19 Pulmonary and Olfactory Dysfunctions: Is the Chemokine CXCL10 the Common Denominator?. Neuroscientist, 2021, 27, 214-221.	3.5	49
61	Evolution of EEG Motor Rhythms after Spinal Cord Injury: A Longitudinal Study. PLoS ONE, 2015, 10, e0131759.	2.5	48
62	Direct demonstration of reduction of the output of the human motor cortex induced by a fatiguing muscle contraction. Experimental Brain Research, 2003, 149, 535-538.	1.5	47
63	Cortical disinhibition in Parkinsonâ€™s disease. Brain, 2020, 143, 3408-3421.	7.6	47
64	Action boosts episodic memory encoding in humans via engagement of a noradrenergic system. Nature Communications, 2019, 10, 3534.	12.8	44
65	Altered motor cortex physiology and dysexecutive syndrome in patients with fatigue and cognitive difficulties after mild COVIDâ€19. European Journal of Neurology, 2022, 29, 1652-1662.	3.3	44
66	Cortical plasticity catalyzed by prehabilitation enables extensive resection of brain tumors in eloquent areas. Journal of Neurosurgery, 2017, 126, 1323-1333.	1.6	43
67	Static Magnetic Field Stimulation over Parietal Cortex Enhances Somatosensory Detection in Humans. Journal of Neuroscience, 2017, 37, 3840-3847.	3.6	43
68	Comparison of descending volleys evoked by transcranial and epidural motor cortex stimulation in a conscious patient with bulbar pain. Clinical Neurophysiology, 2004, 115, 834-838.	1.5	41
69	Safety Study of Transcranial Static Magnetic Field Stimulation (tSMS) of the Human Cortex. Brain Stimulation, 2015, 8, 481-485.	1.6	41
70	Cerebral blood flow and metabolic changes produced by repetitive magnetic brain stimulation. Journal of Neurology, 1999, 246, 1164-1168.	3.6	40
71	Corticospinal involvement in patients with a portosystemic shunt due to liver cirrhosis. Journal of Neurology, 2006, 253, 81-85.	3.6	40
72	Motor cortex hyperexcitability to transcranial magnetic stimulation in Alzheimer's disease: Evidence of impaired glutamatergic neurotransmission?. Annals of Neurology, 2003, 53, 824-824.	5.3	39

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73	Motor cortex stimulation for amyotrophic lateral sclerosis. Time for a therapeutic trial?. Clinical Neurophysiology, 2004, 115, 1479-1485.	1.5	38
74	Magnetic Field Strength and Reproducibility of Neodymium Magnets Useful for Transcranial Static Magnetic Field Stimulation of the Human Cortex. Neuromodulation, 2014, 17, 438-442.	0.8	37
75	Cognitive performance of people with traumatic spinal cord injury: a cross-sectional study comparing people with subacute and chronic injuries. Spinal Cord, 2018, 56, 796-805.	1.9	37
76	Bilateral Implantation in Globus Pallidus Internus and in Subthalamic Nucleus in Parkinson's Disease. Neuromodulation, 2005, 8, 1-6.	0.8	35
77	Intermuscular coherence in Parkinson's disease: relationship to bradykinesia. NeuroReport, 2001, 12, 2577-2581.	1.2	32
78	Functional involvement of cerebral cortex in human narcolepsy. Journal of Neurology, 2005, 252, 56-61.	3.6	32
79	Central fatigue induced by short-lasting finger tapping and isometric tasks: A study of silent periods evoked at spinal and supraspinal levels. Neuroscience, 2015, 305, 316-327.	2.3	32
80	Brain sensorimotor hand area functionality in acute stroke: insights from magnetoencephalography. NeuroImage, 2004, 23, 542-550.	4.2	30
81	Unaffected motor cortex remodeling after hemispherectomy in an epileptic cerebral palsy patient. A TMS and fMRI study. Epilepsy Research, 2009, 85, 243-251.	1.6	28
82	Normal or enhanced shortâ€latency afferent inhibition in Parkinsonâ€™s disease?. Brain, 2004, 127, e8-e8.	7.6	26
83	Intraepidermal nerve fiber density reduction as a marker of preclinical asymptomatic small-fiber sensory neuropathy in hypothyroid patients. European Journal of Endocrinology, 2010, 163, 279-284.	3.7	26
84	Severe Disability in Patients with Relapsing-Remitting Multiple Sclerosis Is Associated with Profound Changes in the Regulation of Leptin Secretion. NeuroImmunoModulation, 2013, 20, 341-347.	1.8	26
85	Transcranial static magnetic field stimulation (tSMS) of the visual cortex decreases experimental photophobia. Cephalalgia, 2018, 38, 1493-1497.	3.9	26
86	Fatigue in Multiple Sclerosis: General and Perceived Fatigue Does Not Depend on Corticospinal Tract Dysfunction. Frontiers in Neurology, 2019, 10, 339.	2.4	25
87	Static magnetic field stimulation of the supplementary motor area modulates resting-state activity and motor behavior. Communications Biology, 2019, 2, 397.	4.4	24
88	Transcranial Static Magnetic Field Stimulation over the Primary Motor Cortex Induces Plastic Changes in Cortical Nociceptive Processing. Frontiers in Human Neuroscience, 2018, 12, 63.	2.0	22
89	Direct recording of the output of the motor cortex produced by transcranial magnetic stimulation in a patient with cerebral cortex atrophy. Clinical Neurophysiology, 2004, 115, 112-115.	1.5	21
90	Short-lasting impairment of temperature perception by high frequency rTMS of the sensorimotor cortex. Clinical Neurophysiology, 2005, 116, 1072-1076.	1.5	21

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91	Cooperative 3D Air Quality Assessment with Wireless Chemical Sensing Networks. Procedia Engineering, 2011, 25, 84-87.	1.2	21
92	Reduced cerebral cortex inhibition in dystonia: Direct evidence in humans. Clinical Neurophysiology, 2009, 120, 834-839.	1.5	20
93	Analysis of fMRI time series with mutual information. Medical Image Analysis, 2012, 16, 451-458.	11.6	20
94	rTMS stimulation to induce plastic changes at the language motor area in a patient with a left recidivant brain tumor affecting Broca's area. Neurocase, 2012, 18, 132-138.	0.6	19
95	Pain Treatment Using tDCS in a Single Patient: Tele-medicine Approach in Non-invasive Brain Simulation. Brain Stimulation, 2014, 7, 334-335.	1.6	19
96	Development of chronic pain in males with traumatic spinal cord injury: role of circulating levels of the chemokines CCL2 and CXCL10 in subacute stage. Spinal Cord, 2019, 57, 953-959.	1.9	19
97	Functional involvement of central nervous system in acute exacerbation of chronic obstructive pulmonary disease. Journal of Neurology, 2002, 249, 1232-1236.	3.6	18
98	Functional involvement of central nervous system at high altitude. Experimental Brain Research, 2009, 194, 157-162.	1.5	18
99	A framework to assess the impact of number of trials on the amplitude of motor evoked potentials. Scientific Reports, 2020, 10, 21422.	3.3	18
100	High-frequency cortical subdural stimulation enhanced plasticity in surgery of a tumor in Brocaâ€™s area. NeuroReport, 2012, 23, 304-309.	1.2	17
101	Postoperative rehabilitation after deep brain stimulation surgery for movement disorders. Clinical Neurophysiology, 2018, 129, 592-601.	1.5	17
102	Pallidal activity recorded in patients with implanted electrodes predictively correlates with eventual performance in a timing task. Neuroscience Letters, 2002, 330, 188-192.	2.1	16
103	Intracortical inhibition is reduced in a patient with a lesion in the posterolateral thalamus. Movement Disorders, 2002, 17, 208-212.	3.9	16
104	Effects of Moderate Static Magnetic Field on Neural Systems Is a Non-invasive Mechanical Stimulation of the Brain Possible Theoretically?. Frontiers in Neuroscience, 2020, 14, 419.	2.8	16
105	Spinal cord injury immediately decreases anesthetic requirements in rats. Spinal Cord, 2011, 49, 822-826.	1.9	15
106	Differential responses of spinal motoneurons to fatigue induced by short-lasting repetitive and isometric tasks. Neuroscience, 2016, 339, 655-666.	2.3	15
107	Bilateral tDCS on Primary Motor Cortex: Effects on Fast Arm Reaching Tasks. PLoS ONE, 2016, 11, e0160063.	2.5	14
108	Prevalence of Fatigue and Associated Factors in a Spinal Cord Injury Population: Data from an Internet-Based and Face-to-Face Surveys. Journal of Neurotrauma, 2017, 34, 2335-2341.	3.4	14

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109	Effects of transcranial direct current stimulation on temperature and pain perception. Scientific Reports, 2017, 7, 2946.	3.3	13
110	Transcranial static magnetic stimulation â€"From bench to bedside and beyondâ€". Neuroscience Research, 2020, 156, 250-255.	1.9	13
111	Effects of fatigue induced by repetitive movements and isometric tasks on reaction time. Human Movement Science, 2020, 73, 102679.	1.4	13
112	Complications of tracheostomy after anterior cervical spine fixation surgery. American Journal of Otolaryngology - Head and Neck Medicine and Surgery, 2011, 32, 408-411.	1.3	12
113	New Technologies for Stroke Rehabilitation. Stroke Research and Treatment, 2013, 2013, 1-2.	0.8	11
114	Theta burst stimulation: Technical aspects about TMS devices. Brain Stimulation, 2020, 13, 562-564.	1.6	11
115	Effects of patterned peripheral nerve stimulation on soleus spinal motor neuron excitability. PLoS ONE, 2018, 13, e0192471.	2.5	11
116	Chapter 12 Generation of I waves in the human: spinal recordings. Supplements To Clinical Neurophysiology, 2003, 56, 143-152.	2.1	9
117	Interferon-Î² but not Glatiramer acetate stimulates CXCL10 secretion in primary cultures of thyrocytes: A clue for understanding the different risks of thyroid dysfunctions in patients with multiple sclerosis treated with either of the two drugs. Journal of Neuroimmunology, 2011, 234, 161-164.	2.3	9
118	CB1 receptor antagonism/inverse agonism increases motor system excitability in humans. European Neuropsychopharmacology, 2012, 22, 27-35.	0.7	9
119	Early spermatogenesis changes in traumatic complete spinal cord-injured adult patients. Spinal Cord, 2017, 55, 570-574.	1.9	8
120	New Insights from Clinical Assessment of Upper Extremities in Cervical Traumatic Spinal Cord Injury. Journal of Neurotrauma, 2016, 33, 1724-1727.	3.4	7
121	Influence of Static Magnetic Field Stimulation on the Accuracy of Tachystoscopically Presented Line Bisection. Brain Sciences, 2020, 10, 1006.	2.3	7
122	Home-based transcranial static magnetic field stimulation of the motor cortex for treating levodopa-induced dyskinesias in Parkinson's disease: A randomized controlled trial. Brain Stimulation, 2022, 15, 857-860.	1.6	7
123	Effects of baclofen on temperature perception in humans. Neuroscience Research, 2007, 59, 89-92.	1.9	6
124	Editorial: Non-invasive Brain Stimulation in Neurology and Psychiatry. Frontiers in Neuroscience, 2016, 10, 574.	2.8	6
125	Tracheostomy in spinal cord injured patients. Translational Medicine @ UniSa, 2011, 1, 151-72.	0.5	6
126	The effects of expectancy on corticospinal excitability: passively preparing to observe a movement. Journal of Neurophysiology, 2014, 111, 1479-1486.	1.8	5

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127	Peripheral-central interplay for fatiguing unresisted repetitive movements: a study using muscle ischaemia and M1 neuromodulation. Scientific Reports, 2021, 11, 2075.	3.3	5
128	tDCS Modulates Motor Imagery-Related BCI Features. Biosystems and Biorobotics, 2013, , 647-651.	0.3	5
129	Improvement of intraâ€epidermal nerve fibre density in hypothyroidism after <scp>L</scp>â€thyroxine therapy. Clinical Endocrinology, 2013, 78, 152-153.	2.4	4
130	Effects of COVID-19 lockdown on chronic drug-resistant pain patients treated using brain stimulation approaches. Brain Stimulation, 2020, 13, 1089-1090.	1.6	4
131	Balancing the need for rapid and rigorous scientific data during early phase of the COVID-19 pandemic: A further role for the scientific community. European Journal of Internal Medicine, 2020, 77, 152.	2.2	3
132	Cortical layerâ€specific modulation of neuronal activity after sensory deprivation due to spinal cord injury. Journal of Physiology, 2021, 599, 4643-4669.	2.9	3
133	A Severe Case of High Cervical Spinal Cord Injury without Radiographic Abnormality. European Neurology, 2010, 63, 188-188.	1.4	2
134	Balancing the excitability of M1 circuitry during movement observation without overt replication. Frontiers in Behavioral Neuroscience, 2014, 8, 316.	2.0	2
135	Significant influence of static magnetic field stimulation applied for 30 minutes over the human M1 on corticospinal excitability. Brain Stimulation, 2020, 13, 751-752.	1.6	2
136	Editorial: Non-invasive Brain Stimulation for Neurodegenerative Disorders: From Investigation to Therapeutic Application. Frontiers in Neurology, 2022, 13, 820942.	2.4	2
137	Static magnetic field stimulation over motor cortex modulates resting functional connectivity in humans. Scientific Reports, 2022, 12, 7834.	3.3	2
138	Studying plasticity of sensory function: insight from pregnancy. Experimental Brain Research, 2011, 209, 311-316.	1.5	1
139	Stuttering and levetiracetam: Case report and research proposal. Annals of Clinical Psychiatry, 2018, 30, 68-69.	0.6	1
140	Mecanismos fisiopatolÃ³gicos y avances en la investigaciÃ³n del dolor neuropÃ¡tico. Rehabilitacion, 2006, 40, 3-8.	0.4	0
141	Editorial Note on: Neurophysiological assessment of spine disorders: old fashion techniques for modern clinical problems. Spinal Cord, 2012, 50, 439-439.	1.9	0
142	fMRI brain mapping with kernels. , 2012, , .		0
143	Promising Tools in Neurorehabilitation: Non-invasive Neuromodulation of the Central Nervous System. Biosystems and Biorobotics, 2013, , 1077-1081.	0.3	0
144	Phase II/III placebo-controlled randomized trial of safety and efficacy of growth hormone treatment in incomplete chronic traumatic spinal cord injury. Spinal Cord, 2021, 59, 917-924.	1.9	0

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145	Efectos de los campos magnÃ©ticos estÃ¡ticos sobre la corteza cerebral. , 2014, , 127-133.		0
146	Response of Spinal Excitability to Different Short-Lasting Motor Tasks: Preliminary Results. Biosystems and Biorobotics, 2017, , 1007-1012.	0.3	0