Miguel FernÃ¡ndez del Olmo

List of Publications by Year
in descending order

89 papers	3,554 citations	172457 29 h-index	149698 56 g-index
90 all docs	90 docs citations	90 times ranked	4280 citing authors

#	Article	IF	Citations
1	Inter-individual Variability in Response to Non-invasive Brain Stimulation Paradigms. Brain Stimulation, 2014, 7, 372-380.	1.6	638
2	Time Course of Functional Connectivity between Dorsal Premotor and Contralateral Motor Cortex during Movement Selection. Journal of Neuroscience, 2006, 26, 7452-7459.	3.6	202
3	Focal Stimulation of the Posterior Parietal Cortex Increases the Excitability of the Ipsilateral Motor Cortex. Journal of Neuroscience, 2007, 27, 6815-6822.	3.6	202
4	Temporal variability of gait in Parkinson disease: effectsof a rehabilitation programme based on rhythmic sound cues. Parkinsonism and Related Disorders, 2005, 11, 25-33.	2.2	152
5	Role of the Cerebellum in Externally Paced Rhythmic Finger Movements. Journal of Neurophysiology, 2007, 98, 145-152.	1.8	151
6	Intra-individual variability in the response to anodal transcranial direct current stimulation. Clinical Neurophysiology, 2015, 126, 2342-2347.	1.5	150
7	Functional Interplay between Posterior Parietal and Ipsilateral Motor Cortex Revealed by Twin-Coil Transcranial Magnetic Stimulation during Reach Planning toward Contralateral Space. Journal of Neuroscience, 2008, 28, 5944-5953.	3.6	118
8	Evaluation of the effect of training using auditory stimulation on rhythmic movement in Parkinsonian patientsâ€"a combined motor and [18F]-FDG PET study. Parkinsonism and Related Disorders, 2006, 12, 155-164.	2.2	99
9	Age reduces cortical reciprocal inhibition in humans. Experimental Brain Research, 2006, 171, 322-329.	1.5	81
10	The effects of treadmill or overground walking training program on gait in Parkinson's disease. Gait and Posture, 2013, 38, 590-595.	1.4	78
11	Study of Cerebello-Thalamocortical Pathway by Transcranial Magnetic Stimulation in Parkinson's Disease. Brain Stimulation, 2013, 6, 582-589.	1.6	75
12	The functional anatomy of schizophrenia: A dynamic causal modeling study of predictive coding. Schizophrenia Research, 2014, 158, 204-212.	2.0	67
13	Transcranial magnetic stimulation over dorsolateral prefrontal cortex in Parkinsonâ€™s disease. Clinical Neurophysiology, 2007, 118, 131-139.	1.5	64
14	TMS activation of interhemispheric pathways between the posterior parietal cortex and the contralateral motor cortex. Journal of Physiology, 2009, 587, 4281-4292.	2.9	62
15	Treadmill walking in Parkinson's disease patients: Adaptation and generalization effect. Movement Disorders, 2008, 23, 1243-1249.	3.9	61
16	Isometric knee extensor fatigue following a Wingate test: peripheral and central mechanisms. Scandinavian Journal of Medicine and Science in Sports, 2013, 23, 57-65.	2.9	56
17	Relationship Between Non-invasive Brain Stimulation-induced Plasticity and Capacity for Motor Learning. Brain Stimulation, 2015, 8, 1209-1219.	1.6	52
18	Reversal of LTP-Like Cortical Plasticity in Alzheimerâ€™s Disease Patients with Tau-Related Faster Clinical Progression. Journal of Alzheimer's Disease, 2016, 50, 605-616.	2.6	51

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19	Mechanisms involved in treadmill walking improvements in Parkinson's disease. Gait and Posture, 2010, 32, 118-123.	1.4	50
20	Effects of Set Configuration of Resistance Exercise on Perceived Exertion. Perceptual and Motor Skills, 2014, 119, 825-837.	1.3	49
21	Short-Term Effects of Anodal Transcranial Direct Current Stimulation on Endurance and Maximal Force Production. A Systematic Review and Meta-Analysis. Journal of Clinical Medicine, 2019, 8, 536.	2.4	49
22	Altered dorsal premotorâ€“motor interhemispheric pathway activity in focal arm dystonia. Movement Disorders, 2008, 23, 660-668.	3.9	46
23	How Does the Treadmill Affect Gait in Parkinsons Disease?. Current Aging Science, 2012, 5, 28-34.	1.2	39
24	Performance of Maximum Number of Repetitions With Cluster-Set Configuration. International Journal of Sports Physiology and Performance, 2014, 9, 637-642.	2.3	37
25	Inter-repetition rest training and traditional set configuration produce similar strength gains without cortical adaptations. Journal of Sports Sciences, 2016, 34, 1473-1484.	2.0	35
26	Functional relevance of resistance training-induced neuroplasticity in health and disease. Neuroscience and Biobehavioral Reviews, 2021, 122, 79-91.	6.1	35
27	Functional connectivity abnormalities during contextual processing in schizophrenia and in Parkinsonâ€™s disease. Brain and Cognition, 2013, 82, 243-253.	1.8	33
28	Effects of progressive resistance exercise in akinetic-rigid Parkinson's disease patients: a randomized controlled trial. European Journal of Physical and Rehabilitation Medicine, 2017, 53, 651-663.	2.2	33
29	Chronic neural adaptation induced by long-term resistance training in humans. European Journal of Applied Physiology, 2006, 96, 722-728.	2.5	32
30	Comparison of different baseline conditions in evaluating factors that influence motor cortex excitability. Brain Stimulation, 2011, 4, 152-155.	1.6	28
31	Enhancing consolidation of a rotational visuomotor adaptation task through acute exercise. PLoS ONE, 2017, 12, e0175296.	2.5	28
32	Anodal transcranial direct current stimulation enhances strength training volume but not the forceâ€“velocity profile. European Journal of Applied Physiology, 2020, 120, 1881-1891.	2.5	28
33	Spatiotemporal Parameters of Gait During Treadmill and Overground Walking in Parkinson's Disease. Journal of Parkinson's Disease, 2014, 4, 33-36.	2.8	27
34	A Preliminary Comparison of Motor Learning Across Different Non-invasive Brain Stimulation Paradigms Shows No Consistent Modulations. Frontiers in Neuroscience, 2018, 12, 253.	2.8	27
35	The effect of BDNF val66met polymorphism on visuomotor adaptation. Experimental Brain Research, 2012, 223, 43-50.	1.5	26
36	Small and inconsistent effects of whole body vibration on athletic performance: a systematic review and meta-analysis. European Journal of Applied Physiology, 2015, 115, 1605-1625.	2.5	26

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37	Movement observation specifies motor programs activated by the action observed objective. Neuroscience Letters, 2011, 493, 102-106.	2.1	24
38	How repeatable are the physiological effects of TENS?. Clinical Neurophysiology, 2008, 119, 1834-1839.	1.5	23
39	Prolonged cortical silent period but normal sensorimotor plasticity in spinocerebellar ataxia 6. Movement Disorders, 2008, 23, 378-385.	3.9	22
40	Treadmill Walking Combined With Anodal Transcranial Direct Current Stimulation in Parkinson Disease. American Journal of Physical Medicine and Rehabilitation, 2017, 96, 801-808.	1.4	22
41	Ventral premotor to primary motor cortical interactions during noxious and naturalistic action observation. Neuropsychologia, 2010, 48, 1802-1806.	1.6	21
42	Contextual processing deficits in Parkinsonâ€™s disease: The role of the frontostriatal system. Clinical Neurophysiology, 2011, 122, 539-545.	1.5	21
43	Set Configuration in Resistance Exercise: Muscle Fatigue and Cardiovascular Effects. PLoS ONE, 2016, 11, e0151163.	2.5	21
44	Startle Auditory Stimuli Enhance the Performance of Fast Dynamic Contractions. PLoS ONE, 2014, 9, e87805.	2.5	20
45	Mirror neuron system and observational learning: Behavioral and neurophysiological evidence. Behavioural Brain Research, 2013, 248, 104-113.	2.2	19
46	A shorter set reduces the loss of cardiac autonomic and baroreflex control after resistance exercise. European Journal of Sport Science, 2016, 16, 996-1004.	2.7	18
47	Neural correlates of local contextual processing deficits in schizophrenic patients. Psychophysiology, 2011, 48, 1217-1226.	2.4	17
48	Modulation of the motor system during visual and auditory language processing. Experimental Brain Research, 2011, 211, 243-250.	1.5	17
49	The trampoline aftereffect: the motor and sensory modulations associated with jumping on an elastic surface. Experimental Brain Research, 2010, 204, 575-584.	1.5	16
50	Gait Pattern and Cognitive Performance During Treadmill Walking in Parkinson Disease. American Journal of Physical Medicine and Rehabilitation, 2015, 94, 931-940.	1.4	15
51	Peripheral and central fatigue after high intensity resistance circuit training. Muscle and Nerve, 2017, 56, 152-159.	2.2	15
52	Exploring the effects of Transcranial Direct Current Stimulation over the prefrontal cortex on working memory: A cluster analysis approach. Behavioural Brain Research, 2019, 375, 112144.	2.2	15
53	Treadmill Training Improves Overground Walking Economy in ParkinsonÃ¢â‚¬â„¢s Disease: A Randomized, Controlled Pilot Study. Frontiers in Neurology, 2014, 5, 191.	2.4	14
54	Parieto-motor functional connectivity is impaired in Parkinson's disease. Brain Stimulation, 2013, 6, 147-154.	1.6	13

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55	Effect of surface stiffness on the neural control of stretchâ€shortening cycle movements. Acta Physiologica, 2014, 212, 214-225.	3.8	13
56	Exercise Type Affects Cardiac Vagal Autonomic Recovery After a Resistance Training Session. Journal of Strength and Conditioning Research, 2016, 30, 2565-2573.	2.1	13
57	Changes in the Force-Velocity Mechanical Profile After Short Resistance Training Programs Differing in Set Configurations. Journal of Applied Biomechanics, 2017, 33, 144-152.	0.8	13
58	Walking on a treadmill improves the stride length-cadence relationship in individuals with Parkinsonâ€™s disease. Gait and Posture, 2019, 68, 136-140.	1.4	12
59	The effects of startle and non-startle auditory stimuli on wrist flexion movement in Parkinson's disease. Neuroscience Letters, 2013, 548, 56-60.	2.1	11
60	Role of Vertical Jumps and Anthropometric Variables in Maximal Kicking Ball Velocities in Elite Soccer Players. Journal of Human Kinetics, 2016, 53, 143-154.	1.5	11
61	Tests of Vertical Jump. Strength and Conditioning Journal, 2012, 34, 87-93.	1.4	10
62	The effects of auditory startle and nonstartle stimuli on step initiation in Parkinson's disease. Movement Disorders, 2012, 27, 1570-1573.	3.9	10
63	Implicit Versus Explicit Local Contextual Processing. PLoS ONE, 2013, 8, e65914.	2.5	10
64	Paradoxical facilitation after depotentiation protocol can precede dyskinesia onset in early Parkinsonâ€™s disease. Experimental Brain Research, 2016, 234, 3659-3667.	1.5	10
65	An Integrative Clustering Approach to tDCS Individual Response Variability in Cognitive Performance: Beyond a Null Effect on Working Memory. Neuroscience, 2020, 443, 120-130.	2.3	10
66	Sensory perception changes induced by transcranial magnetic stimulation over the primary somatosensory cortex in Parkinson's disease. Movement Disorders, 2011, 26, 2058-2064.	3.9	9
67	A Critical Review of the Technique Parameters and Sample Features of Maximal Kicking Velocity in Soccer. Strength and Conditioning Journal, 2015, 37, 26-39.	1.4	9
68	Neuromechanical adaptation induced by jumping on an elastic surface. Journal of Electromyography and Kinesiology, 2013, 23, 62-69.	1.7	8
69	Local contextual processing in major depressive disorder. Clinical Neurophysiology, 2014, 125, 476-483.	1.5	8
70	Strength and Kicking Performance in Soccer. Strength and Conditioning Journal, 2016, 38, 106-116.	1.4	8
71	Effect of Treadmill Walking on Leg Muscle Activation in Parkinson's Disease. Rejuvenation Research, 2019, 22, 71-78.	1.8	8
72	Set Configuration in Strength Training Programs Modulates the Cross Education Phenomenon. Journal of Strength and Conditioning Research, 2019, Publish Ahead of Print, 2414-2420.	2.1	8

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73	Low-Intensity Cycling Affects the Muscle Activation Pattern of Consequent Countermovement Jumps. Journal of Strength and Conditioning Research, 2009, 23, 1470-1476.	2.1	6
74	Modulation of quadriceps corticospinal excitability by femoral nerve stimulation. Neuroscience Letters, 2017, 637, 148-153.	2.1	6
75	Effect of intensity and duration of conditioning protocol on postâ€activation potentiation and changes in Hâ€reflex. European Journal of Sport Science, 2011, 11, 33-38.	2.7	5
76	Local Contextual Processing Effects with Increasing Stimulus Presentation Rate. Brain Topography, 2011, 23, 385-391.	1.8	5
77	Effects of bilateral and non-dominant practices on the lateral preference in judo matches. Journal of Sports Sciences, 2018, 36, 111-115.	2.0	5
78	Kicking ability and kicking deficit in young elite soccer players. Kinesiology, 2018, 50, 194-203.	0.6	4
79	Test-Retest Reliability of the Timed Up and Go Test in Subjects with Parkinsonâ€™s Disease: Implications for Longitudinal Assessments. Journal of Parkinson's Disease, 2021, 11, 1-9.	2.8	4
80	Dissociation between behavior and motor cortical excitability before and during ballistic wrist flexion and extension in young and old adults. PLoS ONE, 2017, 12, e0186585.	2.5	4
81	Local contextual processing of abstract and meaningful real-life images in professional athletes. Experimental Brain Research, 2012, 219, 27-36.	1.5	3
82	Athletes versus video game players: A predictive contextual processing study. Neuroscience Letters, 2018, 684, 156-163.	2.1	3
83	Acute neuromechanical modifications and 24-h recovery in quadriceps muscle after maximal stretch-shortening cycle exercise. Journal of Electromyography and Kinesiology, 2018, 40, 64-71.	1.7	2
84	Acute kinematic and neurophysiological effects of treadmill and overground walking in Parkinsonâ€™s disease. NeuroRehabilitation, 2019, 44, 433-443.	1.3	2
85	Diferencias de edad en el rendimiento de golpeo de balÃ³n en fÃºtbol. Revista Internacional De Medicina Y Ciencias De La Actividad Fisica Y Del Deporte, 2019, 19, 719.	0.2	2
86	Small Enhancement of Bimanual Typing Performance after 20 Sessions of tDCS in Healthy Young Adults. Neuroscience, 2021, 466, 26-35.	2.3	1
87	A lack of timing-dependent effects of transcranial direct current stimulation (tDCS) on the performance of a choice reaction time task. Neuroscience Letters, 2022, 782, 136691.	2.1	1
88	Short walking distances compromise the stride length in Parkinson's disease patients. Parkinsonism and Related Disorders, 2015, 21, 809-810.	2.2	0
89	Treadmill vs Cycling in Parkinsonâ€™s disease rehabilitation: Commentary on â€œIntensive cycle ergometer training improves gait speed and endurance in patients with Parkinsonâ€™s disease: A comparison with treadmill trainingâ€• by Arcolin et al., 2016. Restorative Neurology and Neuroscience, 2016, 34, 691-692.	0.7	0