Filipe Barroso

List of Publications by Year
in descending order

34 papers	651 citations	687220 13 h-index	642610 23 g-index
46 all docs	46 docs citations	46 times ranked	667 citing authors

#	Article	IF	Citations
1	Intramuscular EMG-Driven Musculoskeletal Modelling: Towards Implanted Muscle Interfacing in Spinal Cord Injury Patients. IEEE Transactions on Biomedical Engineering, 2022, 69, 63-74.	2.5	15
2	Pseudo-online Muscle Onset Detection Algorithm with Threshold Auto-Adjustment for Lower Limb Exoskeleton Control. Biosystems and Biorobotics, 2022, , 275-279.	0.2	1
3	In Vitro Evaluation of a Protocol and an Architecture for Bidirectional Communications in Networks of Wireless Implants Powered by Volume Conduction. Biosystems and Biorobotics, 2022, , 103-107.	0.2	0
4	Floating EMG sensors and stimulators wirelessly powered and operated by volume conduction for networked neuroprosthetics. Journal of NeuroEngineering and Rehabilitation, 2022, 19, .	2.4	6
5	Intramuscular Stimulation of Muscle Afferents Attains Prolonged Tremor Reduction in EssentialÂTremor Patients. IEEE Transactions on Biomedical Engineering, 2021, 68, 1768-1776.	2.5	22
6	Peripheral electrical stimulation to reduce pathological tremor: a review. Journal of NeuroEngineering and Rehabilitation, 2021, 18, 33.	2.4	27
7	Effects of gravity and kinematic constraints on muscle synergies in arm cycling. Journal of Neurophysiology, 2021, 125, 1367-1381.	0.9	17
8	Comparison of Intramuscular and Surface Electromyography Recordings Towards the Control of Wearable Robots for Incomplete Spinal Cord Injury Rehabilitation. , 2020, , .		8
9	Reorganization of Muscle Coordination Underlying Motor Learning in Cycling Tasks. Frontiers in Bioengineering and Biotechnology, 2020, 8, 800.	2.0	19
10	Women with patellofemoral pain show altered motor coordination during lateral step down. Journal of Biomechanics, 2020, 110, 109981.	0.9	9
11	Haptic Adaptive Feedback to Promote Motor Learning With a Robotic Ankle Exoskeleton Integrated With a Video Game. Frontiers in Bioengineering and Biotechnology, 2020, 8, 113.	2.0	19
12	Coordination amongst quadriceps muscles suggests neural regulation of internal joint stresses, not simplification of task performance. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8135-8142.	3.3	38
13	Modulation of reciprocal inhibition at the wrist as a neurophysiological correlate of tremor suppression: a pilot healthy subject study. , 2019, 2019, 6267-6272.		9
14	A thin-film multichannel electrode for muscle recording and stimulation in neuroprosthetics applications. Journal of Neural Engineering, 2019, 16, 026035.	1.8	26
15	Decoding neural activity to predict rat locomotion using intracortical and epidural arrays. Journal of Neural Engineering, 2019, 16, 036005.	1.8	9
16	Adaptation of muscle activation after patellar loading demonstrates neural control of joint variables. Scientific Reports, 2019, 9, 20370.	1.6	20
17	Cortically Controlled FES for Restoration and Rehabilitation of Function Following SCI in Rats. Biosystems and Biorobotics, 2019, , 931-934.	0.2	0
18	Adaptation after vastus lateralis denervation in rats demonstrates neural regulation of joint stresses and strains. ELife, 2018, 7, .	2.8	29

#	Article	IF	Citations
19	Modular control of gait after incomplete spinal cord injury: differences between sides. Spinal Cord, 2017, 55, 79-86.	0.9	33
20	Combining muscle synergies and biomechanical analysis to assess gait in stroke patients. Journal of Biomechanics, 2017, 63, 98-103.	0.9	57
21	Emerging Techniques for Assessment of Sensorimotor Impairments after Spinal Cord Injury. , 2016, , .		2
22	Tibialis anterior muscle coherence during cycling as new functional measure for incomplete spinal cord injury in clinical evaluation. Physiotherapy, 2016, 102, e97.	0.2	0
23	Working hard to make a simple definition of synergies. Physics of Life Reviews, 2016, 17, 24-26.	1.5	4
24	Muscle Synergies in Clinical Practice: Theoretical and Practical Implications. Biosystems and Biorobotics, 2016, , 251-272.	0.2	23
25	Muscle Synergies in Cycling after Incomplete Spinal Cord Injury: Correlation with Clinical Measures of Motor Function and Spasticity. Frontiers in Human Neuroscience, 2015, 9, 706.	1.0	29
26	Modular Control of Gait in Incomplete Spinal Cord Injury: Preliminary Results. Biosystems and Biorobotics, 2014, , 601-610.	0.2	0
27	Shared muscle synergies in human walking and cycling. Journal of Neurophysiology, 2014, 112, 1984-1998.	0.9	119
28	Surface EMG in Neurorehabilitation and Ergonomics: State of the Art and Future Perspectives. Biosystems and Biorobotics, 2014, , 267-284.	0.2	5
29	Muscle Synergies Underlying Voluntary Anteroposterior Sway Movements. IFMBE Proceedings, 2014, , 738-741.	0.2	0
30	Effects of robotic guidance on the coordination of locomotion. Journal of NeuroEngineering and Rehabilitation, 2013, 10, 79.	2.4	66
31	Influence of the robotic exoskeleton Lokomat on the control of human gait: An electromyographic and kinematic analysis. , 2013, , .		4
32	Similarity of muscle synergies in human walking and cycling: Preliminary results. , 2013, 2013, 6933-6.		15
33	Assessment of the Suitability of the Motorized Ankle-Foot Orthosis as a Diagnostic and Rehabilitation Tool for Gait. , 2013, , .		0
34	Noninvasive Modalities Used in Spinal Cord Injury Rehabilitation. , 0, , .		5