

Silvia Muceli

List of Publications by Year in descending order

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54
papers

2,732
citations

257450

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243625

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59
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docs citations

59
times ranked

2181
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.	4.2	15
2	Development of functional organization within the sensorimotor network across the perinatal period. Human Brain Mapping, 2022, 43, 2249-2261.	3.6	6
3	Online Tracking of the Phase Difference Between Neural Drives to Antagonist Muscle Pairs in Essential Tremor Patients. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 709-718.	4.9	7
4	Editorial: Current Trends in Deep Learning for Movement Analysis and Prosthesis Control. Frontiers in Neuroscience, 2022, 16, 889202.	2.8	1
5	Fundamental Concepts of Bipolar and High-Density Surface EMG Understanding and Teaching for Clinical, Occupational, and Sport Applications: Origin, Detection, and Main Errors. Sensors, 2022, 22, 4150.	3.8	22
6	Deep Learning for Robust Decomposition of High-Density Surface EMG Signals. IEEE Transactions on Biomedical Engineering, 2021, 68, 526-534.	4.2	52
7	Intramuscular Stimulation of Muscle Afferents Attains Prolonged Tremor Reduction in Essential Tremor Patients. IEEE Transactions on Biomedical Engineering, 2021, 68, 1768-1776.	4.2	22
8	Synergistic Organization of Neural Inputs from Spinal Motor Neurons to Extrinsic and Intrinsic Hand Muscles. Journal of Neuroscience, 2021, 41, 6878-6891.	3.6	28
9	Proof of concept for multiple nerve transfers to a single target muscle. ELife, 2021, 10, .	6.0	5
10	Motor Unit Characteristics After Selective Nerve Transfers. , 2021, , 83-91.		0
11	Spinal Interfacing via Muscle Recordings for Neuroprosthesis Control. , 2021, , 1-29.		0
12	Comparison of Intramuscular and Surface Electromyography Recordings Towards the Control of Wearable Robots for Incomplete Spinal Cord Injury Rehabilitation. , 2020, , .		8
13	Wearable multichannel haptic device for encoding proprioception in the upper limb. Journal of Neural Engineering, 2020, 17, 056035.	3.5	12
14	An fMRI Compatible Smart Device for Measuring Palmar Grasping Actions in Newborns. Sensors, 2020, 20, 6040.	3.8	11
15	Non-invasive analysis of motor neurons controlling the intrinsic and extrinsic muscles of the hand. Journal of Neural Engineering, 2020, 17, 046033.	3.5	17
16	A high-density surface EMG framework for the study of motor neurons controlling the intrinsic and extrinsic muscles of the hand. , 2019, 2019, 2307-2310.		4
17	Modulation of reciprocal inhibition at the wrist as a neurophysiological correlate of tremor suppression: a pilot healthy subject study. , 2019, 2019, 6267-6272.		9
18	Tutorial. Surface EMG detection in space and time: Best practices. Journal of Electromyography and Kinesiology, 2019, 49, 102363.	1.7	158

#	ARTICLE	IF	CITATIONS
19	Voluntary and tremorogenic inputs to motor neuron pools of agonist/antagonist muscles in essential tremor patients. <i>Journal of Neurophysiology</i> , 2019, 122, 2043-2053.	1.8	19
20	Signing up to motor signatures: a unique link to action. <i>Journal of Applied Physiology</i> , 2019, 127, 1163-1164.	2.5	4
21	A thin-film multichannel electrode for muscle recording and stimulation in neuroprosthetics applications. <i>Journal of Neural Engineering</i> , 2019, 16, 026035.	3.5	26
22	Adaptive learning in the detection of Movement Related Cortical Potentials improves usability of associative Brain-Computer Interfaces. , 2019, 2019, 3079-3082.		2
23	Peripheral nerve transfers change target muscle structure and function. <i>Science Advances</i> , 2019, 5, eaau2956.	10.3	46
24	Decoding motor neuron activity from epimysial thin-film electrode recordings following targeted muscle reinnervation. <i>Journal of Neural Engineering</i> , 2019, 16, 016010.	3.5	27
25	Motor unit territories in human genioglossus estimated with multichannel intramuscular electrodes. <i>Journal of Applied Physiology</i> , 2018, 124, 664-671.	2.5	23
26	A Real-Time Method for Decoding the Neural Drive to Muscles Using Single-Channel Intra-Muscular EMG Recordings. <i>International Journal of Neural Systems</i> , 2017, 27, 1750025.	5.2	29
27	Specificity of surface EMG recordings for gastrocnemius during upright standing. <i>Scientific Reports</i> , 2017, 7, 13300.	3.3	36
28	Electrical Stimulation of Afferent Pathways for the Suppression of Pathological Tremor. <i>Frontiers in Neuroscience</i> , 2017, 11, 178.	2.8	44
29	Broadband Prosthetic Interfaces: Combining Nerve Transfers and Implantable Multichannel EMG Technology to Decode Spinal Motor Neuron Activity. <i>Frontiers in Neuroscience</i> , 2017, 11, 421.	2.8	39
30	Prospects of Neurorehabilitation Technologies Based on Robust Decoding of the Neural Drive to Muscles Following Targeted Muscle Reinnervation. <i>Biosystems and Biorobotics</i> , 2017, , 1359-1363.	0.3	1
31	Principles of Motor Unit Physiology Evolve With Advances in Technology. <i>Physiology</i> , 2016, 31, 83-94.	3.1	147
32	Multi-channel intramuscular and surface EMG decomposition by convolutive blind source separation. <i>Journal of Neural Engineering</i> , 2016, 13, 026027.	3.5	391
33	Accurate and representative decoding of the neural drive to muscles in humans with multi-channel intramuscular thin-film electrodes. <i>Journal of Physiology</i> , 2015, 593, 3789-3804.	2.9	87
34	A new generation of double-sided intramuscular electrodes for multi-channel recording and stimulation. , 2015, 2015, 7135-8.		14
35	Online Tremor Suppression Using Electromyography and Low-Level Electrical Stimulation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2015, 23, 385-395.	4.9	87
36	Physiological recruitment of motor units by high-frequency electrical stimulation of afferent pathways. <i>Journal of Applied Physiology</i> , 2015, 118, 365-376.	2.5	28

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37	Experimental Muscle Pain Impairs the Synergistic Modular Control of Neck Muscles. PLoS ONE, 2015, 10, e0137844.	2.5	63
38	Reorganization of muscle synergies during multidirectional reaching in the horizontal plane with experimental muscle pain. Journal of Neurophysiology, 2014, 111, 1615-1630.	1.8	64
39	Closed-Loop Control of Grasping With a Myoelectric Hand Prosthesis: Which Are the Relevant Feedback Variables for Force Control?. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 1041-1052.	4.9	132
40	Extracting Signals Robust to Electrode Number and Shift for Online Simultaneous and Proportional Myoelectric Control by Factorization Algorithms. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 623-633.	4.9	145
41	Multi-channel EMG recording and muscle stimulation electrodes for diagnosis and treatment of tremor. , 2014, , .		2
42	Effect of arm position on the prediction of kinematics from EMG in amputees. Medical and Biological Engineering and Computing, 2013, 51, 143-151.	2.8	97
43	Simultaneous and Proportional Myocontrol of Multiple Degrees of Freedom. Biosystems and Biorobotics, 2013, , 1225-1228.	0.3	0
44	Development of Multi-Channel Intramuscular EMG Recording Electrodes. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.8	2
45	Recruitment of motor units in the medial gastrocnemius muscle during human quiet standing: is recruitment intermittent? What triggers recruitment?. Journal of Neurophysiology, 2012, 107, 666-676.	1.8	55
46	EMG-based simultaneous and proportional estimation of wrist/hand kinematics in uni-lateral trans-radial amputees. Journal of NeuroEngineering and Rehabilitation, 2012, 9, 42.	4.6	152
47	Simultaneous and Proportional Estimation of Hand Kinematics From EMG During Mirrored Movements at Multiple Degrees-of-Freedom. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 371-378.	4.9	238
48	Robust decomposition of single-channel intramuscular EMG signals at low force levels. Journal of Neural Engineering, 2011, 8, 066015.	3.5	30
49	Reduced force steadiness in women with neck pain and the effect of short term vibration. Journal of Electromyography and Kinesiology, 2011, 21, 283-290.	1.7	43
50	Postural activation of the human medial gastrocnemius muscle: are the muscle units spatially localised?. Journal of Physiology, 2011, 589, 431-443.	2.9	97
51	Identifying Representative Synergy Matrices for Describing Muscular Activation Patterns During Multidirectional Reaching in the Horizontal Plane. Journal of Neurophysiology, 2010, 103, 1532-1542.	1.8	150
52	Multichannel surface EMG based estimation of bilateral hand kinematics during movements at multiple degrees of freedom. , 2010, 2010, 6066-9.		17
53	Real-time foetal ECG extraction with JADE on floating point DSP. Electronics Letters, 2007, 43, 963.	1.0	10
54	The Pop and Color of Our Electrified Muscles. Frontiers for Young Minds, 0, 10, .	0.8	0