Jose Zariffa

List of Publications by Year in descending order

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80	1,406	331259	433756
papers	citations	21 h-index	31 g-index

86	86	86	1541
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Characterization of neurological recovery following traumatic sensorimotor complete thoracic spinal cord injury. Spinal Cord, 2011, 49, 463-471.	0.9	101
2	Relationship Between Clinical Assessments of Function and Measurements From an Upper-Limb Robotic Rehabilitation Device in Cervical Spinal Cord Injury. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 341-350.	2.7	94
3	Feasibility and efficacy of upper limb robotic rehabilitation in a subacute cervical spinal cord injury population. Spinal Cord, 2012, 50, 220-226.	0.9	74
4	Rehabilitation technologies and interventions for individuals with spinal cord injury: translational potential of current trends. Journal of NeuroEngineering and Rehabilitation, 2018, 15, 40.	2.4	61
5	Analysis of the Hands in Egocentric Vision: A Survey. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 6846-6866.	9.7	46
6	Short-Term Neuroplastic Effects of Brain-Controlled and Muscle-Controlled Electrical Stimulation. Neuromodulation, 2015, 18, 233-240.	0.4	45
7	Testâ€“Retest Reliability of Contact Heat-Evoked Potentials From Cervical Dermatomes. Journal of Clinical Neurophysiology, 2012, 29, 70-75.	0.9	38
8	A Fast EEG Forecasting Algorithm for Phase-Locked Transcranial Electrical Stimulation of the Human Brain. Frontiers in Neuroscience, 2017, 11, 401.	1.4	38
9	Localization of Active Pathways in Peripheral Nerves: A Simulation Study. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2009, 17, 53-62.	2.7	37
10	Application of singular spectrum-based change-point analysis to EMG-onset detection. Journal of Electromyography and Kinesiology, 2010, 20, 750-760.	0.7	36
11	Robot-assisted upper extremity rehabilitation for cervical spinal cord injuries: a systematic scoping review. Disability and Rehabilitation: Assistive Technology, 2018, 13, 704-715.	1.3	36
12	Use of an Experimentally Derived Leadfield in the Peripheral Nerve Pathway Discrimination Problem. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2011, 19, 147-156.	2.7	32
13	Changes in hand muscle synergies in subjects with spinal cord injury: Characterization and functional implications. Journal of Spinal Cord Medicine, 2012, 35, 310-318.	0.7	31
14	Egocentric video: a new tool for capturing hand use of individuals with spinal cord injury at home. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 83.	2.4	31
15	Selective peripheral nerve recordings from nerve cuff electrodes using convolutional neural networks. Journal of Neural Engineering, 2020, 17, 016042.	1.8	30
16	Influence of the Number and Location of Recording Contacts on the Selectivity of a Nerve Cuff Electrode. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2009, 17, 420-427.	2.7	28
17	Sacral sparing in SCI: beyond the S4â€“S5 and anorectal examination. Spine Journal, 2012, 12, 389-400.e3.	0.6	28
18	A Real-Time Phase-Locking System for Non-invasive Brain Stimulation. Frontiers in Neuroscience, 2018, 12, 877.	1.4	25

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19	Considerations and recommendations for selection and utilization of upper extremity clinical outcome assessments in human spinal cord injury trials. Spinal Cord, 2018, 56, 414-425.	0.9	24
20	Classification of naturally evoked compound action potentials in peripheral nerve spatiotemporal recordings. Scientific Reports, 2019, 9, 11145.	1.6	24
21	Bidirectional Peripheral Nerve Interface With 64 Second-Order Opamp-Less Î”Î£ ADCs and Fully Integrated Wireless Power/Data Transmission. IEEE Journal of Solid-State Circuits, 2021, 56, 3247-3262.	3.5	21
22	Effect of a robotic rehabilitation device on upper limb function in a sub-acute cervical spinal cord injury population. , 2011, 2011, 5975400.		20
23	Use of spatiotemporal templates for pathway discrimination in peripheral nerve recordings: a simulation study. Journal of Neural Engineering, 2017, 14, 016013.	1.8	19
24	An Effective and Efficient Method for Detecting Hands in Egocentric Videos for Rehabilitation Applications. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 748-755.	2.7	19
25	Hand contour detection in wearable camera video using an adaptive histogram region of interest. Journal of NeuroEngineering and Rehabilitation, 2013, 10, 114.	2.4	18
26	Functional Motor Preservation Below the Level of Injury in Subjects With American Spinal Injury Association Impairment Scale Grade A Spinal Cord Injuries. Archives of Physical Medicine and Rehabilitation, 2012, 93, 905-907.	0.5	17
27	Views of individuals with spinal cord injury on the use of wearable cameras to monitor upper limb function in the home and community. Journal of Spinal Cord Medicine, 2017, 40, 706-714.	0.7	17
28	Properties of the surface electromyogram following traumatic spinal cord injury: a scoping review. Journal of NeuroEngineering and Rehabilitation, 2021, 18, 105.	2.4	17
29	Variability of vibrations produced by commercial whole-body vibration platforms. Journal of Rehabilitation Medicine, 2014, 46, 937-940.	0.8	16
30	Influence of Anatomical Detail and Tissue Conductivity Variations in Simulations of Multi-Contact Nerve Cuff Recordings. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 1653-1662.	2.7	15
31	Application of EEG source localization algorithms to the monitoring of active pathways in peripheral nerves. , 2008, 2008, 4216-9.		14
32	Effect of whole-body vibration on lower-limb EMG activity in subjects with and without spinal cord injury. Journal of Spinal Cord Medicine, 2014, 37, 525-536.	0.7	14
33	EEG-Controlled Functional Electrical Stimulation Therapy With Automated Grasp Selection: A Proof-of-Concept Study. Topics in Spinal Cord Injury Rehabilitation, 2018, 24, 265-274.	0.8	14
34	Neural engineering: the process, applications, and its role in the future of medicine. Journal of Neural Engineering, 2019, 16, 063002.	1.8	14
35	Muscle activity, cross-sectional area, and density following passive standing and whole body vibration: A case series. Journal of Spinal Cord Medicine, 2014, 37, 575-581.	0.7	13
36	Predicting task performance from upper extremity impairment measures after cervical spinal cord injury. Spinal Cord, 2016, 54, 1145-1151.	0.9	13

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37	Identifying Hand Use and Hand Roles After Stroke Using Egocentric Video. IEEE Journal of Translational Engineering in Health and Medicine, 2021, 9, 1-10.	2.2	13
38	28.8 Multi-Modal Peripheral Nerve Active Probe and Microstimulator with On-Chip Dual-Coil Power/Data Transmission and 64 2nd-Order Opamp-Less Î”Î£ ADCs. , 2021, , .		13
39	Development of priorities for a Canadian strategy to advance activity-based therapies after spinal cord injury. Spinal Cord, 2021, 59, 874-884.	0.9	13
40	Computer vision-based classification of hand grip variations in neurorehabilitation. , 2011, 2011, 5975421.		12
41	Neuromodulation of Emotion Using Functional Electrical Stimulation Applied to Facial Muscles. Neuromodulation, 2014, 17, 85-92.	0.4	12
42	Interaction Detection in Egocentric Video: Toward a Novel Outcome Measure for Upper Extremity Function. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 561-569.	3.9	12
43	Effect of Theta Transcranial Alternating Current Stimulation and Phase-Locked Transcranial Pulsed Current Stimulation on Learning and Cognitive Control. Frontiers in Neuroscience, 2019, 13, 1181.	1.4	12
44	Validating Accelerometry as a Measure of Arm Movement for Children With Hemiplegic Cerebral Palsy. Physical Therapy, 2019, 99, 721-729.	1.1	10
45	Smallest real differences for robotic measures of upper extremity function after stroke: Implications for tracking recovery. Journal of Rehabilitation and Assistive Technologies Engineering, 2018, 5, 205566831878803.	0.6	9
46	Tenodesis Grasp Detection in Egocentric Video. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1463-1470.	3.9	9
47	Perspectives and recommendations of individuals with tetraplegia regarding wearable cameras for monitoring hand function at home: Insights from a community-based study. Journal of Spinal Cord Medicine, 2021, 44, S173-S184.	0.7	9
48	Using activity-based therapy for individuals with spinal cord injury or disease: Interviews with physical and occupational therapists in rehabilitation hospitals. Journal of Spinal Cord Medicine, 2023, 46, 298-308.	0.7	9
49	The use of surface EMG in neurorehabilitation following traumatic spinal cord injury: A scoping review. Clinical Neurophysiology, 2022, 138, 61-73.	0.7	9
50	Are You "Tilting at Windmills" or Undertaking a Valid Clinical Trial?. Yonsei Medical Journal, 2011, 52, 701.	0.9	8
51	Automatic three-dimensional reconstruction of fascicles in peripheral nerves from histological images. PLoS ONE, 2020, 15, e0233028.	1.1	8
52	Capturing hand use of individuals with spinal cord injury at home using egocentric video: a feasibility study. Spinal Cord Series and Cases, 2021, 7, 17.	0.3	8
53	Solution space reduction in the peripheral nerve source localization problem using forward field similarities. Journal of Neural Engineering, 2008, 5, 191-202.	1.8	7
54	Inverted Pendulum Standing Apparatus for Investigating Closed-Loop Control of Ankle Joint Muscle Contractions during Functional Electrical Stimulation. International Scholarly Research Notices, 2014, 2014, 1-8.	0.9	7

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55	Development and validation of a 3D-printed neuronavigation headset for therapeutic brain stimulation. Journal of Neural Engineering, 2018, 15, 046034.	1.8	7
56	Functional electrical stimulation of the facial muscles to improve symptoms in individuals with major depressive disorder: pilot feasibility study. BioMedical Engineering OnLine, 2019, 18, 109.	1.3	7
57	Capturing Representative Hand Use at Home Using Egocentric Video in Individuals with Upper Limb Impairment. Journal of Visualized Experiments, 2020, , .	0.2	7
58	A review of source separation and source localization approaches in peripheral nerves. , 2014, , .		6
59	Compensation Strategies for Bioelectric Signal Changes in Chronic Selective Nerve Cuff Recordings: A Simulation Study. Sensors, 2021, 21, 506.	2.1	6
60	Measuring Hand Use in the Home after Cervical Spinal Cord Injury Using Egocentric Video. Journal of Neurotrauma, 2022, 39, 1697-1707.	1.7	6
61	Tutorial: a guide to techniques for analysing recordings from the peripheral nervous system. Journal of Neural Engineering, 2022, 19, 042001.	1.8	6
62	A synaptic input portal for a mapped clock oscillator model of neuronal electrical rhythmic activity. Journal of Neural Engineering, 2004, 1, 158-164.	1.8	5
63	Neuronal Electrical Rhythms Described by Composite Mapped Clock Oscillators. Annals of Biomedical Engineering, 2006, 34, 128-141.	1.3	5
64	A Phase-Based Electrical Plethysmography Approach to Bladder Volume Measurement. Annals of Biomedical Engineering, 2016, 44, 1299-1309.	1.3	5
65	Towards Clustering Hand Grasps of Individuals with Spinal Cord Injury in Egocentric Video. , 2020, 2020, 2151-2154.		5
66	A wearable vision-based system for detecting hand-object interactions in individuals with cervical spinal cord injury: First results in the home environment. , 2020, 2020, 2159-2162.		4
67	Bioelectric Source Localization in the Rat Sciatic Nerve: Initial Assessment Using an Idealized Nerve Model. IFMBE Proceedings, 2009, , 138-141.	0.2	4
68	Generalizability of Hand-Object Interaction Detection in Egocentric Video across Populations with Hand Impairment. , 2020, 2020, 3228-3231.		3
69	Exploring the perspectives of outpatient rehabilitation clinicians on the challenges with monitoring patient health, function and activity in the community. Disability and Rehabilitation, 2020, , 1-10.	0.9	3
70	Validity and Reliability of Surface Electromyography Features in Lower Extremity Muscle Contraction in Healthy and Spinal Cordâ€“Injured Participants. Topics in Spinal Cord Injury Rehabilitation, 2021, 27, 14-27.	0.8	3
71	Effects of the choice of reference on the selectivity of a multi-contact nerve cuff electrode. , 2016, 2016, 4443-4446.		2
72	Neuron-Type-Specific Utility in a Brain-Machine Interface: a Pilot Study. Journal of Spinal Cord Medicine, 2017, 40, 715-722.	0.7	2

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73	Influence of upper limb movement patterns on accelerometer measurements: a pediatric case series. Physiological Measurement, 2018, 39, 04NT02.	1.2	2
74	Traversing the Translational Trail for Trials. Topics in Spinal Cord Injury Rehabilitation, 2012, 18, 79-84.	0.8	2
75	Improving Neurorehabilitation of the Upper Limb through Big Data. , 2018, , 533-550.		2
76	A framework for the discrimination of neural pathways using multi-contact nerve cuff electrodes. , 2011, 2011, 4645-8.		1
77	Muscle Tension Estimation in the Presence of Neuromuscular Impairment. Journal of Biomechanical Engineering, 2011, 133, 121009.	0.6	1
78	Identifying priorities and developing strategies for building capacity in amputation research in Canada. Disability and Rehabilitation, 2020, 43, 1-11.	0.9	1
79	Impact of Encapsulation Tissue Growth on Selective Recording in Nerve Cuff Electrodes: A Simulation Study. , 2020, 2020, 3444-3447.		0
80	Compensating for Electrode Contact Failures in Chronic Selective Nerve Cuff Recordings: A Simulation Study. , 2020, , .		0