

Juan C Moreno

List of Publications by Citations

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132
papers

2,610
citations

26
h-index

49
g-index

144
ext. papers

3,309
ext. citations

2.4
avg, IF

5.18
L-index

#	Paper	IF	Citations
132	Rehabilitation of gait after stroke: a review towards a top-down approach. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2011 , 8, 66	5.3	320
131	Design and validation of a rehabilitation robotic exoskeleton for tremor assessment and suppression. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2007 , 15, 367-78	4.8	218
130	The H2 robotic exoskeleton for gait rehabilitation after stroke: early findings from a clinical study. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015 , 12, 54	5.3	188
129	. <i>IEEE Systems Journal</i> , 2016 , 10, 1068-1081	4.3	186
128	A closed-loop brain-computer interface triggering an active ankle-foot orthosis for inducing cortical neural plasticity. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 2092-101	5	112
127	Hybrid FES-robot cooperative control of ambulatory gait rehabilitation exoskeleton. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2014 , 11, 27	5.3	105
126	Review of hybrid exoskeletons to restore gait following spinal cord injury. <i>Journal of Rehabilitation Research and Development</i> , 2012 , 49, 497-514		101
125	Real-time estimation of pathological tremor parameters from gyroscope data. <i>Sensors</i> , 2010 , 10, 2129-49.8	4.8	75
124	Shared muscle synergies in human walking and cycling. <i>Journal of Neurophysiology</i> , 2014 , 112, 1984-98	3.2	73
123	Compliant lower limb exoskeletons: a comprehensive review on mechanical design principles. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2019 , 16, 55	5.3	63
122	Automatic recognition of gait patterns in human motor disorders using machine learning: A review. <i>Medical Engineering and Physics</i> , 2018 , 53, 1-12	2.4	63
121	Design and implementation of an inertial measurement unit for control of artificial limbs: Application on leg orthoses. <i>Sensors and Actuators B: Chemical</i> , 2006 , 118, 333-337	8.5	56
120	Biologically based design of an actuator system for a knee-ankle-foot orthosis. <i>Mechanism and Machine Theory</i> , 2009 , 44, 860-872	4	55
119	Study of the motion artefacts of skin-mounted inertial sensors under different attachment conditions. <i>Physiological Measurement</i> , 2008 , 29, N21-31	2.9	50
118	Effects of robotic guidance on the coordination of locomotion. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2013 , 10, 79	5.3	47
117	Voluntary control of wearable robotic exoskeletons by patients with paresis via neuromechanical modeling. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2019 , 16, 91	5.3	40
116	Combining muscle synergies and biomechanical analysis to assess gait in stroke patients. <i>Journal of Biomechanics</i> , 2017 , 63, 98-103	2.9	39

115	Benchmarking Bipedal Locomotion: A Unified Scheme for Humanoids, Wearable Robots, and Humans. <i>IEEE Robotics and Automation Magazine</i> , 2015 , 22, 103-115	3.4	38
114	Performance Evaluation of Lower Limb Exoskeletons: A Systematic Review. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020 , 28, 1573-1583	4.8	38
113	Neurorobotic and hybrid management of lower limb motor disorders: a review. <i>Medical and Biological Engineering and Computing</i> , 2011 , 49, 1119-30	3.1	37
112	Motor modules in robot-aided walking. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2012 , 9, 76	5.3	35
111	A robotic exoskeleton for overground gait rehabilitation 2013 ,		35
110	Immediate effects of a controllable knee ankle foot orthosis for functional compensation of gait in patients with proximal leg weakness. <i>Medical and Biological Engineering and Computing</i> , 2008 , 46, 43-53	3.1	35
109	Gait Event Detection in Controlled and Real-Life Situations: Repeated Measures From Healthy Subjects. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 1945-1956	4.8	28
108	Advances in selective activation of muscles for non-invasive motor neuroprostheses. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016 , 13, 56	5.3	27
107	Hybrid gait training with an overground robot for people with incomplete spinal cord injury: a pilot study. <i>Frontiers in Human Neuroscience</i> , 2014 , 8, 298	3.3	26
106	Online assessment of human-robot interaction for hybrid control of walking. <i>Sensors</i> , 2012 , 12, 215-25	3.8	26
105	Assessing the Involvement of Users During Development of Lower Limb Wearable Robotic Exoskeletons: A Survey Study. <i>Human Factors</i> , 2020 , 62, 351-364	3.8	22
104	Muscle Synergies in Cycling after Incomplete Spinal Cord Injury: Correlation with Clinical Measures of Motor Function and Spasticity. <i>Frontiers in Human Neuroscience</i> , 2015 , 9, 706	3.3	22
103	Hybrid therapy of walking with Kinesis overground robot for persons with incomplete spinal cord injury: A feasibility study. <i>Robotics and Autonomous Systems</i> , 2015 , 73, 44-58	3.5	21
102	Advances in neuroprosthetic management of foot drop: a review. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2020 , 17, 46	5.3	19
101	Influences of the biofeedback content on robotic post-stroke gait rehabilitation: electromyographic vs joint torque biofeedback. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2019 , 16, 95	5.3	18
100	Biped Locomotion Control through a Biomimetic CPG-based Controller. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2017 , 85, 47-70	2.9	18
99	A Subject-Specific Kinematic Model to Predict Human Motion in Exoskeleton-Assisted Gait. <i>Frontiers in Neurorobotics</i> , 2018 , 12, 18	3.4	14
98	Enhancing functional electrical stimulation for emerging rehabilitation robotics in the framework of HYPER project. <i>IEEE International Conference on Rehabilitation Robotics</i> , 2011 , 2011, 5975370	1.3	13

97	Analysis of the Human Interaction with a Wearable Lower-Limb Exoskeleton. <i>Applied Bionics and Biomechanics</i> , 2009 , 6, 245-256	1.6	11
96	HumanRobot Cognitive Interaction87-125		11
95	A new platform based on IEEE802.15.4 wireless inertial sensors for motion caption and assessment. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , Suppl, 6497-500		11
94	Boosting the traditional physiotherapist approach for stroke spasticity using a sensorized ankle foot orthosis: a pilot study. <i>Topics in Stroke Rehabilitation</i> , 2017 , 24, 447-456	2.6	10
93	Benchmarking lower limb wearable robots 2015 ,		10
92	Haptic Adaptive Feedback to Promote Motor Learning With a Robotic Ankle Exoskeleton Integrated With a Video Game. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 113	5.8	10
91	. <i>IEEE Access</i> , 2020 , 8, 33250-33262	3.5	10
90	Global Kalman filter approaches to estimate absolute angles of lower limb segments. <i>BioMedical Engineering OnLine</i> , 2017 , 16, 58	4.1	10
89	Wearable Robot Technologies165-200		10
88	Self-tuned driving of piezoelectric actuators. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 4163-4167		10
87	BioMot exoskeleton - Towards a smart wearable robot for symbiotic human-robot interaction. <i>IEEE International Conference on Rehabilitation Robotics</i> , 2017 , 2017, 1666-1671	1.3	9
86	Intramuscular Stimulation of Muscle Afferents Attains Prolonged Tremor Reduction in EssentialTremor Patients. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 1768-1776	5	9
85	Wearable Inertial Sensor System Towards Daily Human Kinematic Gait Analysis: Benchmarking Analysis to MVN BIOMECH. <i>Sensors</i> , 2020 , 20,	3.8	8
84	A flexible architecture to enhance wearable robots: Integration of EMG-informed models 2015 ,		8
83	Similarity of muscle synergies in human walking and cycling: preliminary results. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 6933-6	0.9	8
82	Principles of human locomotion: a review. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 6941-4	0.9	8
81	Analysis of the human interaction with a wearable lower-limb exoskeleton. <i>Applied Bionics and Biomechanics</i> , 2009 , 6, 245-256	1.6	8
80	Application of inertial sensors in rehabilitation robotics 2007 ,		8

79	Exoskeletons for lower-limb rehabilitation 2018 , 89-99		8
78	Towards human-knee orthosis interaction based on adaptive impedance control through stiffness adjustment. <i>IEEE International Conference on Rehabilitation Robotics</i> , 2017 , 2017, 406-411	1.3	7
77	On the use of inertial measurement units for real-time quantification of pathological tremor amplitude and frequency. <i>Procedia Chemistry</i> , 2009 , 1, 1219-1222		7
76	2016 ,		7
75	Adaptive multichannel FES neuroprosthesis with learning control and automatic gait assessment. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2020 , 17, 36	5.3	6
74	Motor Control System for Adaptation of Healthy Individuals and Recovery of Poststroke Patients: A Case Study on Muscle Synergies. <i>Neural Plasticity</i> , 2019 , 2019, 8586416	3.3	5
73	Electronic design and validation of Powered Knee Orthosis system embedded with wearable sensors 2017 ,		5
72	Analysis of biomechanical data to determine the degree of users participation during robotic-assisted gait rehabilitation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 4855-8	0.9	5
71	Joint Stiffness Tuning of Exoskeleton Robot H2 by Tacit Learning. <i>Lecture Notes in Computer Science</i> , 2015 , 138-144	0.9	5
70	Evaluation of IMU ZigBee Sensors for Upper Limb Rehabilitation. <i>Biosystems and Biorobotics</i> , 2013 , 461-465		5
69	Comparison of Intramuscular and Surface Electromyography Recordings Towards the Control of Wearable Robots for Incomplete Spinal Cord Injury Rehabilitation 2020 ,		5
68	Simultaneous estimation of human and exoskeleton motion: A simplified protocol. <i>IEEE International Conference on Rehabilitation Robotics</i> , 2017 , 2017, 1431-1436	1.3	4
67	EMG-based Motion Intention Recognition for Controlling a Powered Knee Orthosis 2019 ,		4
66	Influence of the robotic exoskeleton Lokomat on the control of human gait: An electromyographic and kinematic analysis 2013 ,		4
65	Attention Level Measurement During Exoskeleton Rehabilitation Through a BMI System. <i>Biosystems and Biorobotics</i> , 2017 , 243-247	0.2	4
64	Symbiotic Wearable Robotic Exoskeletons: The Concept of the BioMot Project. <i>Lecture Notes in Computer Science</i> , 2014 , 72-83	0.9	4
63	ADAPTIVE REAL-TIME TOOL FOR HUMAN GAIT EVENT DETECTION USING A WEARABLE GYROSCOPE 2017 ,		4
62	Realtime EMG analysis for transcutaneous electrical stimulation assisted gait training in stroke patients. <i>IFAC-PapersOnLine</i> , 2016 , 49, 183-187	0.7	4

61	Assistive locomotion strategies for active lower limb devices 2017 ,		3
60	Online Monitoring of Muscle Activity During Walking for Bio-feedback and for Observing the Effects of Transcutaneous Electrical Stimulation. <i>Biosystems and Biorobotics</i> , 2017 , 705-709	0.2	3
59	Detection of Subject's Intention to Trigger Transitions Between Sit, Stand and Walk with a Lower Limb Exoskeleton. <i>Biosystems and Biorobotics</i> , 2017 , 249-253	0.2	3
58	The New Generation of Compliant Actuators for Use in Controllable Bio-Inspired Wearable Robots. <i>Biosystems and Biorobotics</i> , 2017 , 255-259	0.2	3
57	Rationale for Multiple Compensation of Muscle Weakness Walking with a Wearable Robotic Orthosis		3
56	An EMG Pattern Comparison of Exoskeleton vs. End-Effector Robotic Device for Assisted Walking Training. <i>Biosystems and Biorobotics</i> , 2014 , 563-567	0.2	3
55	Physiological Evaluation of Different Control Modes of Lower Limb Robotic Exoskeleton H2 in Patients with Incomplete Spinal Cord Injury. <i>Biosystems and Biorobotics</i> , 2017 , 343-348	0.2	3
54	Hybrid FES-Robot Cooperative Control of Ambulatory Gait Rehabilitation Exoskeleton for Spinal Cord Injured Users. <i>Biosystems and Biorobotics</i> , 2013 , 155-159	0.2	3
53	Testing the Generation of Speed-Dependent Gait Trajectories to Control a 6DoF Overground Exoskeleton. <i>Lecture Notes in Computer Science</i> , 2015 , 495-501	0.9	3
52	Hybrid Wearable Robotic Exoskeletons for Human Walking 2020 , 347-364		3
51	EMG-driven models of human-machine interaction in individuals wearing the H2 exoskeleton**This work was supported by the ERC Advanced Grant DEMOVE [267888]. <i>IFAC-PapersOnLine</i> , 2016 , 49, 200-203	0.7	3
50	Transcranial direct current stimulation combined with robotic therapy for upper and lower limb function after stroke: a systematic review and meta-analysis of randomized control trials. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2021 , 18, 148	5.3	3
49	Wearable robotics for motion assistance and rehabilitation. <i>Robotics and Autonomous Systems</i> , 2015 , 73, 1-3	3.5	2
48	Implementation of feature extraction methods and support vector machine for classification of partial body weight supports in overground robot-aided walking 2015 ,		2
47	Wearable Robotics for Motion Assistance and Rehabilitation [TC Spotlight]. <i>IEEE Robotics and Automation Magazine</i> , 2018 , 25, 19-28	3.4	2
46	Theoretical approach for designing the rehabilitation robot controller. <i>Advanced Robotics</i> , 2019 , 33, 674-686		2
45	Towards an ankle neuroprosthesis for hybrid robotics: Concepts and current sources for functional electrical stimulation. <i>IEEE International Conference on Rehabilitation Robotics</i> , 2017 , 2017, 1660-1665	1.3	2
44	Instrumented insole system for ambulatory and robotic walking assistance: First advances 2017 ,		2

43	Flexible and large area pressure sensors for human-neuroprostheses and human-neurorobotic interface assessment. <i>Microsystem Technologies</i> , 2012 , 18, 1155-1161	1.7	2
42	Mechatronics and bioinspiration in actuator design and control. <i>Applied Bionics and Biomechanics</i> , 2008 , 5, 127-133	1.6	2
41	Biomedical instrumentation based on piezoelectric ceramics. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 4191-4194	6	2
40	Assessment of gait symmetry, torque interaction and muscular response due to the unilateral assistance provided by an active knee orthosis in healthy subjects 2020 ,		2
39	Emerging Techniques for Assessment of Sensorimotor Impairments after Spinal Cord Injury 2016 ,		2
38	VALIDATION OF GAIT EVENTS DETECTOR USING ADAPTIVE THRESHOLDS IN HUMANOID ROBOT 2016 , 9-17		2
37	Noninvasive Modalities Used in Spinal Cord Injury Rehabilitation 2019 ,		2
36	Outcome measures and motion capture systems for assessing lower limb orthosis-based interventions after stroke: a systematic review. <i>Disability and Rehabilitation: Assistive Technology</i> , 2021 , 16, 674-683	1.8	2
35	Tacit adaptability on submaximal force control for ankle robotic training 2019 ,		1
34	Analysis of muscle activation patterns during walking in patients with foot drop: insights for the design of an advanced FES controller 2019 ,		1
33	Real-Time Modeling for Lower Limb Exoskeletons. <i>Biosystems and Biorobotics</i> , 2017 , 127-131	0.2	1
32	Joint stiffness modulation of compliant actuators for lower limb exoskeletons. <i>IEEE International Conference on Rehabilitation Robotics</i> , 2017 , 2017, 1287-1292	1.3	1
31	Exoskeletal Robotics for Functional Substitution 2013 , 327-348		1
30	A dynamically consistent model of a motorized ankle-foot orthosis 2013 ,		1
29	Continuous assessment of gait stability in limit cycle walkers 2010 ,		1
28	Wearable Lower Limb and Full-Body Robots 283-321		1
27	Robotic Platform with Visual Paradigm to Induce Motor Learning in Healthy Subjects. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 569-579	0.4	1
26	Feedback-Error Learning Control for Powered Assistive Devices. <i>IFMBE Proceedings</i> , 2020 , 1998-2013	0.2	1

25	Feasibility of Submaximal Force Control Training for Robot-Mediated Therapy After Stroke. <i>Biosystems and Biorobotics</i> , 2019 , 256-260	0.2	1
24	User Involvement, Device Safety, and Outcome Measures During Development of Walking Exoskeletons: Current Practices. <i>Biosystems and Biorobotics</i> , 2020 , 157-163	0.2	1
23	Muscular Activation and Kinetic Effects of Robotic Guidance Force on Human Walking. <i>Biosystems and Biorobotics</i> , 2013 , 787-791	0.2	1
22	Knee Muscle Fatigue Estimation during Isometric Artificially Elicited Contractions in Incomplete Spinal Cord Injured Subjects. <i>Biosystems and Biorobotics</i> , 2013 , 327-332	0.2	1
21	Muscle Activity and Coordination During Robot-Assisted Walking with H2 Exoskeleton. <i>Biosystems and Biorobotics</i> , 2017 , 349-353	0.2	1
20	Analysis of the Effect of Two Different Feedbacks on the Biomechanical Patterns of Stroke Patients during Robotic-Assisted Gait Rehabilitation. <i>Biosystems and Biorobotics</i> , 2013 , 821-825	0.2	1
19	Design and Implementation of a Novel Semi-Active Hybrid Unilateral Stance Control Knee Ankle Foot Orthosis 2018 ,		1
18	An EMG-informed Model to Evaluate Assistance of the Biomot Compliant Ankle Actuator. <i>Biosystems and Biorobotics</i> , 2017 , 261-265	0.2	0
17	Adaptation Strategies for Personalized Gait Neuroprosthetics.. <i>Frontiers in Neurorobotics</i> , 2021 , 15, 7505319	3.4	0
16	A Robot-Assisted Therapy to Increase Muscle Strength in Hemiplegic Gait Rehabilitation.. <i>Frontiers in Neurorobotics</i> , 2022 , 16, 837494	3.4	0
15	Characterization and Evaluation of Human-Exoskeleton Interaction Dynamics: A Review. <i>Sensors</i> , 2022 , 22, 3993	3.8	0
14	Characterization of a Dual PID-ILC FES Controller for FES-Robot Control of Swing Phase of Walking. <i>Biosystems and Biorobotics</i> , 2014 , 341-349	0.2	
13	Testing FES of Ankle Plantarflexor and Dorsiflexor Muscles to Support Unilateral Gait Disorders. <i>Biosystems and Biorobotics</i> , 2019 , 434-438	0.2	
12	A Pilot Study on the Feasibility of Hybrid Gait Training with Kinesis Overground Robot for Persons with Incomplete Spinal Cord Injury. <i>Springer Series in Computational Neuroscience</i> , 2015 , 19-27	1.1	
11	Proposal for Clinical Validation of Lower Limb Robotic Exoskeleton in Patients with Incomplete Spinal Cord Injury. <i>Biosystems and Biorobotics</i> , 2017 , 1439-1443	0.2	
10	Tacit Adaptability of a Mechanically Adjustable Compliance and Controllable Equilibrium Position Actuator, a Preliminary Study. <i>Biosystems and Biorobotics</i> , 2017 , 267-271	0.2	
9	Neuromuscular Control of Dynamic Joint Stabilization with a Knee Brace: Implications to Improve Muscle and Balance Control. <i>Biosystems and Biorobotics</i> , 2013 , 167-171	0.2	
8	Effect of Gait Speed on Dynamic Postural Stability, Harmony and Upper Body Attenuation. <i>Biosystems and Biorobotics</i> , 2013 , 753-757	0.2	

- 7 Simulation Platform for Dynamic Modeling of Lower Limb Rehabilitation Exoskeletons: Exo-H3 Case Study. *Biosystems and Biorobotics*, **2022**, 425-428 0.2
- 6 Erratum to Gait Event Detection in Controlled and Real-Life Situations: Repeated Measures From Healthy Subjects. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2019**, 27, 105-105 4.8
- 5 Lower Limb Exoskeletons in Latin-America. *Biosystems and Biorobotics*, **2019**, 206-209 0.2
- 4 Pseudo-online Muscle Onset Detection Algorithm with Threshold Auto-Adjustment for Lower Limb Exoskeleton Control. *Biosystems and Biorobotics*, **2022**, 275-279 0.2
- 3 Effect of posture and body weight loading on spinal posterior root reflex responses. *European Journal of Neuroscience*, **2021**, 54, 6575-6586 3.5
- 2 Exploiting VR and AR Technologies in Education and Training to Inclusive Robotics. *Studies in Computational Intelligence*, **2021**, 115-126 0.8
- 1 Hybrid Robotics and Neuroprosthetics for Associative Neurorehabilitation **2022**, 1-22