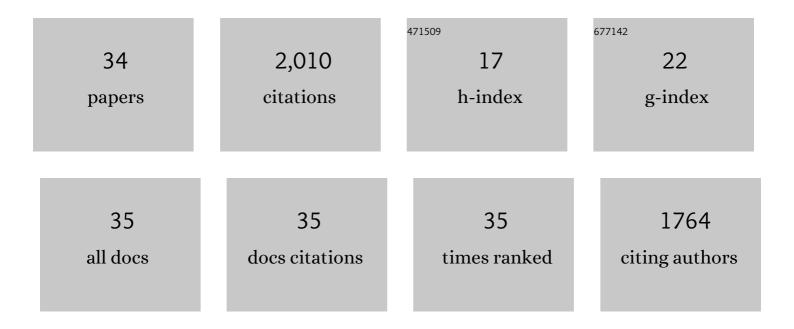
Marco Cempini

List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	A Compact, Lightweight Robotic Ankle-Foot Prosthesis: Featuring a Powered Polycentric Design. IEEE Robotics and Automation Magazine, 2020, 27, 87-102.	2.0	31
2	Design and Experimental Characterization of a Shoulder-Elbow Exoskeleton With Compliant Joints for Post-Stroke Rehabilitation. IEEE/ASME Transactions on Mechatronics, 2019, 24, 1485-1496.	5.8	69
3	A novel hand exoskeleton with series elastic actuation for modulated torque transfer. Mechatronics, 2019, 61, 69-82.	3.3	49
4	A Lightweight, Efficient Fully Powered Knee Prosthesis With Actively Variable Transmission. IEEE Robotics and Automation Letters, 2019, 4, 1186-1193.	5.1	71
5	Design, Development, and Validation of a Lightweight Nonbackdrivable Robotic Ankle Prosthesis. IEEE/ASME Transactions on Mechatronics, 2019, 24, 471-482.	5.8	35
6	Design and validation of a miniaturized SEA transmission system. Mechatronics, 2018, 49, 149-156.	3.3	11
7	Design, development, and testing of a lightweight hybrid robotic knee prosthesis. International Journal of Robotics Research, 2018, 37, 953-976.	8.5	99
8	Technologically-advanced assessment of upper-limb spasticity: a pilot study. European Journal of Physical and Rehabilitation Medicine, 2018, 54, 536-544.	2.2	15
9	Usability test of a hand exoskeleton for activities of daily living: an example of user-centered design. Disability and Rehabilitation: Assistive Technology, 2017, 12, 84-96.	2.2	37
10	An oscillator-based smooth real-time estimate of gait phase for wearable robotics. Autonomous Robots, 2017, 41, 759-774.	4.8	95
11	Physical human-robot interaction of an active pelvis orthosis: toward ergonomic assessment of wearable robots. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 29.	4.6	30
12	A lightweight robotic ankle prosthesis with non-backdrivable cam-based transmission. , 2017, 2017, 1142-1147.		23
13	Design, development, and bench-top testing of a powered polycentric ankle prosthesis. , 2017, , .		26
14	Hybrid Actuation Systems for Lightweight Transfemoral Prostheses. , 2017, , .		7
15	Phase-II Clinical Validation of a Powered Exoskeleton for the Treatment of Elbow Spasticity. Frontiers in Neuroscience, 2017, 11, 261.	2.8	12
16	Vision-Based Pose Estimation for Robot-Mediated Hand Telerehabilitation. Sensors, 2016, 16, 208.	3.8	26
17	Modeling, design & characterization of a novel Passive Variable Stiffness Joint (pVSJ). , 2016, , .		19

A novel shoulder-elbow exoskeleton with series elastic actuators. , 2016, , .

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#	Article	IF	CITATIONS
19	Functional Design of a Powered Elbow Orthosis Toward its Clinical Employment. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1880-1891.	5.8	33
20	Relevance of Series-Elastic actuation in rehabilitation and assistance robotic: Two cases of study. , 2015, , .		3
21	Gastrocnemius myoelectric control of a robotic hip exoskeleton. , 2015, 2015, 3881-4.		12
22	A Mechatronic System for Robot-Mediated Hand Telerehabilitation. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1753-1764.	5.8	56
23	A novel adaptive oscillators-based control for a powered multi-joint lower-limb orthosis. , 2015, , .		18
24	A clutch mechanism for switching between position and stiffness control of a variable stiffness actuator. , 2015, , .		7
25	A Powered Finger–Thumb Wearable Hand Exoskeleton With Self-Aligning Joint Axes. IEEE/ASME Transactions on Mechatronics, 2015, 20, 705-716.	5.8	136
26	Review of assistive strategies in powered lower-limb orthoses and exoskeletons. Robotics and Autonomous Systems, 2015, 64, 120-136.	5.1	566
27	A light-weight active orthosis for hip movement assistance. Robotics and Autonomous Systems, 2015, 73, 123-134.	5.1	210
28	Enhancing brain-machine interface (BMI) control of a hand exoskeleton using electrooculography (EOG). Journal of NeuroEngineering and Rehabilitation, 2014, 11, 165.	4.6	65
29	Analysis of relative displacement between the HX wearable robotic exoskeleton and the user's hand. Journal of NeuroEngineering and Rehabilitation, 2014, 11, 147.	4.6	16
30	Self-Alignment Mechanisms for Assistive Wearable Robots: A Kinetostatic Compatibility Method. IEEE Transactions on Robotics, 2013, 29, 236-250.	10.3	116
31	NEUROExos: A powered elbow orthosis for post-stroke early neurorehabilitation. , 2013, 2013, 342-5.		21
32	Kinematics and design of a portable and wearable exoskeleton for hand rehabilitation. , 2013, 2013, 6650414.		45
33	A Simulation Study to Characterize the Effects of Frequency Modulation during Epidural Electrical Stimulation. Biosystems and Biorobotics, 2013, , 533-537.	0.3	0
34	On the design of ergonomic wearable robotic devices for motion assistance and rehabilitation. , 2012, 2012, 6124-7.		26