Daniela Maffiodo

List of Publications by Year
in descending order

31	198	1040056 9	1199594 12
papers	citations	h-index	g-index

35	35	35	144
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Applications of Intermittent Pneumatic Compression for Diagnostic and Therapeutic Purposes. Mechanisms and Machine Science, 2022, , 209-218.	0.5	0
2	Center of pressure displacement due to graded controlled perturbations to the trunk in standing subjects: the forceâ€“impulse paradigm. European Journal of Applied Physiology, 2022, 122, 425-435.	2.5	3
3	Development of an Automatic Perturbator for Dynamic Posturographic Analysis. Mechanisms and Machine Science, 2021, , 273-282.	0.5	1
4	A methodology for the customization of hinged ankle-foot orthoses based on in vivo helical axis calculation with 3D printed rigid shells. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2021, 235, 367-377.	1.8	4
5	Hardware-In-the-Loop Equipment for the Development of an Automatic Perturbator for Clinical Evaluation of Human Balance Control. Applied Sciences (Switzerland), 2020, 10, 8886.	2.5	6
6	Linearity and repeatability of postural responses in relation to peak force and impulse of manually delivered perturbations: a preliminary study. European Journal of Applied Physiology, 2020, 120, 1319-1330.	2.5	6
7	Pneumo-tronic Perturbator for the Study of Human Postural Responses. Advances in Intelligent Systems and Computing, 2020, , 374-383.	0.6	5
8	Design and Simulation of a Novel Pneumotronic System Aimed to the Investigation of Vascular Phenomena Induced by Limb Compression. Journal of Bionic Engineering, 2019, 16, 550-562.	5.0	9
9	A methodology for the development of a Hinged Ankle-Foot Orthosis compatible with natural joint kinematics. Mechanisms and Machine Science, 2019, , 93-102.	0.5	3
10	Flexible Fingers Based on Shape Memory Alloy Actuated Modules. Machines, 2019, 7, 40.	2.2	9
11	Use of McKibben Muscle in a Haptic Interface. Robotics, 2019, 8, 13.	3.5	9
12	Loudness calculation procedure to study electronic steering column lock noise measurement. Advances in Mechanical Engineering, 2019, 11, 168781401881957.	1.6	1
13	A Novel Pneutronic Device for the Investigation of Compression-Induced Physiological Phenomena: Modeling and Experimental Testing. Mechanisms and Machine Science, 2019, , 207-215.	0.5	3
14	Comparison Among Different Modular SMA Actuated Flexible Fingers. Mechanisms and Machine Science, 2019, , 324-331.	0.5	2
15	Numerical Model of Digital Valve-Controlled Active Air Bearing. International Journal of Automation Technology, 2019, 13, 141-148.	1.0	1
16	Control of Force Impulse in Human-Machine Impact. Mechanisms and Machine Science, 2018, , 956-964.	0.5	3
17	Hyper-Oxygenation Attenuates the Rapid Vasodilatory Response to Muscle Contraction and Compression. Frontiers in Physiology, 2018, 9, 1078.	2.8	11
18	Delivery of customizable compressive patterns to human limbs to investigate vascular reactivity. Biomedical Physics and Engineering Express, 2018, 4, 067003.	1.2	6

#	Article	IF	Citations
19	Finite life fatigue design of spiral springs of dual-mass flywheels: Analytical estimation and experimental results. Advances in Mechanical Engineering, 2018, 10, 168781401877847.	1.6	9
20	In-vivo analysis of ankle joint movement for patient-specific kinematic characterization. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2017, 231, 831-838.	1.8	10
21	Active Gas Thrust Bearing With Embedded Digital Valves and Backpressure Sensors. Tribology Transactions, 2017, 60, 807-813.	2.0	7
22	Increased tissue oxygenation explains the attenuation of hyperemia upon repetitive pneumatic compression of the lower leg. Journal of Applied Physiology, 2017, 123, 1451-1460.	2.5	13
23	Three-Fingered Gripper with Flexure Hinges Actuated by Shape Memory Alloy Wires. International Journal of Automation Technology, 2017, 11, 355-360.	1.0	14
24	A Mechatronic Pneumatic Device to Improve Diastolic Function by Intermittent Action on Lower Limbs. International Journal of Automation Technology, 2017, 11, 501-508.	1.0	6
25	A reduced-order model-based study on the effect of intermittent pneumatic compression of limbs on the cardiovascular system. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2016, 230, 279-287.	1.8	8
26	Resistance Feedback of a Shape Memory Alloy Wire. Advances in Intelligent Systems and Computing, 2016, , 97-104.	0.6	8
27	Simulation and Control of a Robotic Device for Cardio-Circulatory Rehabilitation. Advances in Intelligent Systems and Computing, 2016, , 357-365.	0.6	6
28	Identification of Physical Parameters in a Robotized IPC Device Interacting with Human. Applied Mechanics and Materials, 2014, 490-491, 1729-1733.	0.2	6
29	A model-based method for the design of intermittent pneumatic compression systems acting on humans. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2014, 228, 118-126.	1.8	18
30	Study of the press forming mechanism of a thermoforming machine. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 1715-1723.	2.1	1
31	A Novel Continuous Alternate Motion Mechanism With Two Input Wheels. Journal of Mechanical Design, Transactions of the ASME, 2007, 129, 858-864.	2.9	2