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	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
2	Three-Fingered Gripper with Flexure Hinges Actuated by Shape Memory Alloy Wires. International Journal of Automation Technology, 2017, 11, 355-360.	1.0	14
3	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
4	Hyper-Oxygenation Attenuates the Rapid Vasodilatory Response to Muscle Contraction and Compression. Frontiers in Physiology, 2018, 9, 1078.	2.8	11
5	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
6	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
7	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
8	Flexible Fingers Based on Shape Memory Alloy Actuated Modules. Machines, 2019, 7, 40.	2.2	9
9	Use of McKibben Muscle in a Haptic Interface. Robotics, 2019, 8, 13.	3.5	9
10	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
11	Resistance Feedback of a Shape Memory Alloy Wire. Advances in Intelligent Systems and Computing, 2016, , 97-104.	0.6	8
12	Active Gas Thrust Bearing With Embedded Digital Valves and Backpressure Sensors. Tribology Transactions, 2017, 60, 807-813.	2.0	7
13	Identification of Physical Parameters in a Robotized IPC Device Interacting with Human. Applied Mechanics and Materials, 2014, 490-491, 1729-1733.	0.2	6
14	Delivery of customizable compressive patterns to human limbs to investigate vascular reactivity. Biomedical Physics and Engineering Express, 2018, 4, 067003.	1.2	6
15	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
16	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
17	Simulation and Control of a Robotic Device for Cardio-Circulatory Rehabilitation. Advances in Intelligent Systems and Computing, 2016, , 357-365.	0.6	6
18	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

#	Article	IF	Citations
19	Pneumo-tronic Perturbator for the Study of Human Postural Responses. Advances in Intelligent Systems and Computing, 2020, , 374-383.	0.6	5
20	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
21	Control of Force Impulse in Human-Machine Impact. Mechanisms and Machine Science, 2018, , 956-964.	0.5	3
22	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
23	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
24	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
25	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
26	Comparison Among Different Modular SMA Actuated Flexible Fingers. Mechanisms and Machine Science, 2019, , 324-331.	0.5	2
27	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
28	Loudness calculation procedure to study electronic steering column lock noise measurement. Advances in Mechanical Engineering, 2019, 11, 168781401881957.	1.6	1
29	Development of an Automatic Perturbator for Dynamic Posturographic Analysis. Mechanisms and Machine Science, 2021, , 273-282.	0.5	1
30	Numerical Model of Digital Valve-Controlled Active Air Bearing. International Journal of Automation Technology, 2019, 13, 141-148.	1.0	1
31	Applications of Intermittent Pneumatic Compression for Diagnostic and Therapeutic Purposes. Mechanisms and Machine Science, 2022, , 209-218.	0.5	0