Renato Galluzzi

List of Publications by Year in descending order

34 papers	306 citations	933447 10 h-index	940533 16 g-index
34 all docs	34 docs citations	34 times ranked	226 citing authors

#	Article	IF	Citations
1	Optimized design and characterization of motor-pump unit for energy-regenerative shock absorbers. Applied Energy, 2018, 210, 16-27.	10.1	49
2	Modelling and validation of electromechanical shock absorbers. Vehicle System Dynamics, 2013, 51, 1186-1199.	3.7	26
3	Modeling, Design, and Validation of Magnetic Hysteresis Motors. IEEE Transactions on Industrial Electronics, 2020, 67, 1171-1179.	7.9	23
4	Bioreactor Platform for Biomimetic Culture and in situ Monitoring of the Mechanical Response of in vitro Engineered Models of Cardiac Tissue. Frontiers in Bioengineering and Biotechnology, 2020, 8, 733.	4.1	20
5	Offset-Free Model Predictive Control for a cone-shaped active magnetic bearing system. Mechatronics, 2021, 78, 102612.	3.3	20
6	Rotary regenerative shock absorbers for automotive suspensions. Mechatronics, 2021, 77, 102580.	3.3	18
7	Regenerative Shock Absorbers and the Role of the Motion Rectifier. , 0, , .		16
8	Autonomous navigation at unsignalized intersections: A coupled reinforcement learning and model predictive control approach. Transportation Research Part C: Emerging Technologies, 2022, 139, 103662.	7.6	15
9	Modeling, Control, and Validation of Electrohydrostatic Shock Absorbers. Journal of Vibration and Acoustics, Transactions of the ASME, 2015, 137, .	1.6	12
10	Efficiency-Driven Design Methodology of Gerotor Hydraulic Units. Journal of Mechanical Design, Transactions of the ASME, 2020, 142, .	2.9	12
11	Magnetic Levitation Control Based on Flux Density and Current Measurement. Applied Sciences (Switzerland), 2018, 8, 2545.	2.5	11
12	Fall identification in rock climbing using wearable device. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2016, 230, 171-179.	0.7	9
13	Pattern recognition neural classifier for fall detection in rock climbing. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2019, 233, 478-488.	0.7	9
14	A Multi-domain Approach to the Stabilization of Electrodynamic Levitation Systems. Journal of Vibration and Acoustics, Transactions of the ASME, 2020, 142, .	1.6	9
15	Influence of the Final Ratio on the Consumption of an Electric Vehicle under Conditions of Standardized Driving Cycles. Applied Sciences (Switzerland), 2021, 11, 11474.	2.5	6
16	Artificial Intelligence for Stability Control of Actuated Inâ€“Wheel Electric Vehicles with CarSimÂ® Validation. Mathematics, 2021, 9, 3120.	2.2	6
17	Magnetic hysteresis machines for next-generation electric turbochargers. , 2017, , .		5
18	Modeling and Validation of the Radial Force Capability of Bearingless Hysteresis Drives. Actuators, 2018, 7, 69.	2.3	5

#	Article	IF	Citations
19	Performance Assessment of an Electric Power Steering System for Driverless Formula Student Vehicles. Actuators, 2021, 10, 165.	2.3	5
20	Passive Multi-Degree-of-Freedom Stabilization of Ultra-High-Speed Maglev Vehicles. Journal of Vibration and Acoustics, Transactions of the ASME, 2021, 143, .	1.6	4
21	Analysis, Development and Evaluation of Electro-Hydrostatic Technology for Lower Limb Prostheses Applications. , 2020, , .		4
22	Modeling and Characterization of Rotary Electrohydrostatic Actuators. Journal of Vibration and Acoustics, Transactions of the ASME, 2016, 138, .	1.6	3
23	Investigation on the performances of a twin arm tensioning device. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 1687-1697.	1.9	3
24	An Integrated, Back-Drivable Electro-Hydrostatic Actuator for a Knee Prosthesis. , 2020, , .		3
25	Fatigue monitoring of climbing ropes. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2020, 234, 328-336.	0.7	3
26	Study of Viscoelastic Rubber Mounts on Vehicle Suspensions with In-Wheel Electric Motors. Materials, 2021, 14, 3356.	2.9	3
27	Smart Automotive E-Mobilityâ€"A Proposal for a New Curricula for Engineering Education. Education Sciences, 2022, 12, 316.	2.6	3
28	Autonomous Vehicles as a Development Platform: From High School to Faculty. , 2021, , .		2
29	An Angular Speed and Position FLL-Based Estimator Using Linear Hall-Effect Sensors. IEEE Access, 2021, 9, 168004-168014.	4.2	1
30	Design Methodology of Gerotor Hydraulic Machines for Mechatronic Applications. , 2021, , .		1
31	Improved 1-D Model for Semi-Hard Magnetic Material-Based Electromagnets. , 2019, , .		0
32	Design and Testing of a Fully-Integrated Electro-Hydrostatic Actuator for Powered Knee Prostheses. Biosystems and Biorobotics, 2022, , 95-100.	0.3	0
33	Grey-Box Identification of a Cone-Shaped Active Magnetic Bearing System. Lecture Notes in Networks and Systems, 2022, , 148-163.	0.7	0
34	A unified approach for capacity and power based sizing of electric machine and battery in P2 hybrid electric vehicles. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 0, , 095440702211066.	1.9	0