

Damiano Padovani

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

272
citations

1163117

8
h-index

1199594

12
g-index

27
all docs

27
docs citations

27
times ranked

91
citing authors

#	ARTICLE	IF	CITATIONS
1	Classification and Review of Pump-Controlled Differential Cylinder Drives. <i>Energies</i> , 2019, 12, 1293.	3.1	50
2	A Self-Contained Electro-Hydraulic Cylinder with Passive Load-Holding Capability. <i>Energies</i> , 2019, 12, 292.	3.1	44
3	The Working Hydraulics of Valve-Controlled Mobile Machines: Classification and Review. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2020, 142, .	1.6	36
4	A Comparison Study of a Novel Self-Contained Electro-Hydraulic Cylinder versus a Conventional Valve-Controlled Actuatorâ€”Part 2: Energy Efficiency. <i>Actuators</i> , 2019, 8, 78.	2.3	16
5	A Comparison Study of a Novel Self-Contained Electro-Hydraulic Cylinder versus a Conventional Valve-Controlled Actuatorâ€”Part 1: Motion Control. <i>Actuators</i> , 2019, 8, 79.	2.3	15
6	A Novel Solution for the Elimination of Mode Switching in Pump-Controlled Single-Rod Cylinders. <i>Actuators</i> , 2020, 9, 20.	2.3	14
7	Combined speed control and centralized power supply for hybrid energy-efficient mobile hydraulics. <i>Automation in Construction</i> , 2022, 140, 104337.	9.8	12
8	Enabling Energy Savings in Offshore Mechatronic Systems by using Self-Contained Cylinders. <i>Modeling, Identification and Control</i> , 2019, 40, 89-108.	1.1	10
9	A Commercial Excavator: Analysis, Modelling and Simulation of the Hydraulic Circuit. , 0, , .		9
10	Study of a Self-Contained Electro-Hydraulic Cylinder Drive. , 2018, , .		8
11	A Digital Twin for Lift Planning With Offshore Heave Compensated Cranes. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2021, 143, .	1.2	8
12	Guidelines to Select Between Self-Contained Electro-Hydraulic and Electro-Mechanical Cylinders. , 2020, , .		7
13	Downsizing the Electric Motors of Energy-Efficient Self-Contained Electro-Hydraulic Systems by Using Hybrid Technologies. , 2020, , .		6
14	Performance Improvement of a Hydraulic Active/Passive Heave Compensation Winch Using Semi Secondary Motor Control: Experimental and Numerical Verification. <i>Energies</i> , 2020, 13, 2671.	3.1	5
15	Improving the Efficiency and Dynamic Properties of a Flow Control Unit in a Self-Locking Compact Electro-Hydraulic Cylinder Drive. , 2019, , .		5
16	On the Energy Efficiency of Dual Prime Mover Pump-Controlled Hydraulic Cylinders. , 2019, , .		5
17	A Control Algorithm for Active/Passive Hydraulic Winches Used in Active Heave Compensation. , 2019, , .		3
18	A Close-up View of a Load Sensing â€œHybridâ€•Proportional Directional Control Valve. <i>JFPS International Journal of Fluid Power System</i> , 2013, 6, 8-17.	0.3	3

#	ARTICLE	IF	CITATIONS
19	A method for smoothly disengaging the load-holding valves of energy-efficient electro-hydraulic systems. , 2020, 64, .		3
20	Adding Active Damping to Energy-Efficient Electro-Hydraulic Systems for Robotic Manipulators â€” Comparing Pressure and Acceleration Feedback. , 2020, , .		3
21	Investigation of an Energy Efficient Hydraulic Propulsion System for a Railway Machine. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	1.6	2
22	Exploiting Valve Timing for Pneumatic Energy Savings. , 2018, , .		2
23	Design and Characterization of a Miniature Hydraulic Power Supply for High-Bandwidth Control of Soft Robotics. , 2020, , .		2
24	A Gasless Reservoir Solution for Electro-Hydraulic Compact Drives With Two Prime Movers. , 2020, , .		2
25	Simulation and Analysis of Non-Hybrid Displacement-Controlled Hydraulic Propulsion Systems Suitable for Railway Applications. , 2015, , .		1
26	Motion Control of Large Inertia Loads Using Electrohydrostatic Actuation. , 2020, , .		1
27	A Hybrid Hydraulic Propulsion System for Railway Machinery. , 2016, , .		0