

Min Cheng

List of Publications by Year in descending order

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docs citations

29
times ranked

257
citing authors

#	ARTICLE	IF	CITATIONS
1	Pump/valves coordinate control of the independent metering system for mobile machinery. Automation in Construction, 2015, 57, 98-111.	9.8	65
2	Active Fault-Tolerant Control for Electro-Hydraulic Systems With an Independent Metering Valve Against Valve Faults. IEEE Transactions on Industrial Electronics, 2021, 68, 7221-7232.	7.9	54
3	Motion control of multi-actuator hydraulic systems for mobile machineries: Recent advancements and future trends. Frontiers of Mechanical Engineering, 2018, 13, 151-166.	4.3	45
4	Energy efficiency improvement of heavy-load mobile hydraulic manipulator with electronically tunable operating modes. Energy Conversion and Management, 2019, 188, 447-461.	9.2	43
5	A Hybrid Displacement/Pressure Control Scheme for an Electrohydraulic Flow Matching System. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2771-2782.	5.8	42
6	Self-tuning pressure-feedback control by pole placement for vibration reduction of excavator with independent metering fluid power system. Mechanical Systems and Signal Processing, 2017, 92, 86-106.	8.0	40
7	Decoupling Compensation for Damping Improvement of the Electrohydraulic Control System With Multiple Actuators. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1383-1392.	5.8	39
8	Programmable hydraulic control technique in construction machinery: Status, challenges and countermeasures. Automation in Construction, 2018, 95, 172-192.	9.8	33
9	An Electrohydraulic Load Sensing System based on flow/pressure switched control for mobile machinery. ISA Transactions, 2020, 96, 367-375.	5.7	30
10	Bumpless mode switch of independent metering fluid power system for mobile machinery. Automation in Construction, 2016, 68, 52-64.	9.8	29
11	Human-Robot Shared Control Based on Locally Weighted Intent Prediction for a Teleoperated Hydraulic Manipulator System. IEEE/ASME Transactions on Mechatronics, 2022, 27, 4462-4474.	5.8	24
12	Pump-Based Compensation for Dynamic Improvement of the Electrohydraulic Flow Matching System. IEEE Transactions on Industrial Electronics, 2017, 64, 2903-2913.	7.9	23
13	A Flow-Limited Rate Control Scheme for the Master-Slave Hydraulic Manipulator. IEEE Transactions on Industrial Electronics, 2022, 69, 4988-4998.	7.9	20
14	Development of a redundant anthropomorphic hydraulically actuated manipulator with a roll-pitch-yaw spherical wrist. Frontiers of Mechanical Engineering, 2021, 16, 698-710.	4.3	17
15	Dynamic impact of hydraulic systems using pressure feedback for active damping. Applied Mathematical Modelling, 2021, 89, 454-469.	4.2	16
16	Sensor-Fault-Tolerant Operation for the Independent Metering Control System. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2558-2569.	5.8	16
17	Investigation of the condensation heat-transfer between the wet air and 3-D finned-tube heat exchanger surface with different anti-corrosion coatings. Experimental Heat Transfer, 2022, 35, 399-418.	3.2	10
18	Ex situ and in situ AFM investigations on the growth of the (100) face of KDP with different pH values. Science China Technological Sciences, 2010, 53, 1554-1561.	4.0	8

#	ARTICLE	IF	CITATIONS
19	Valve-based compensation for controllability improvement of the energy-saving electrohydraulic flow matching system. Journal of Zhejiang University: Science A, 2017, 18, 430-442.	2.4	7
20	Human-machine interface for a master-slave hydraulic manipulator with vision enhancement and auditory feedback. Automation in Construction, 2022, 136, 104145.	9.8	7
21	LFT-Structured Uncertainty State-Space Modeling for State Feedback Robust Control of the Ultra-Precision Wafer Stage. IEEE Transactions on Industrial Electronics, 2019, 66, 8567-8577.	7.9	6
22	Adaptive Equivalent Consumption Minimization Strategy for Off-Road Hydraulic Hybrid Vehicles: A Cycle-to-Cycle Optimization Approach. IEEE Transactions on Vehicular Technology, 2022, 71, 2346-2357.	6.3	6
23	Terminal force soft sensing of hydraulic manipulator based on the parameter identification. Measurement: Journal of the International Measurement Confederation, 2022, 200, 111551.	5.0	6
24	Power distribution method for a parallel hydraulic-pneumatic hybrid system using a piecewise function. Energy, 2021, 233, 121033.	8.8	5
25	Anti-windup scheme of the electronic load sensing pump via switched flow/power control. Mechatronics, 2019, 61, 1-11.	3.3	4
26	Real-Time Anti-Saturation Flow Optimization Algorithm of the Redundant Hydraulic Manipulator. Actuators, 2021, 10, 11.	2.3	4
27	A design constraint for a double-acting telescopic hydraulic cylinder in a hydraulic erecting system. Journal of Zhejiang University: Science A, 2022, 23, 1-13.	2.4	2
28	Independent Metering/Displacement Control System on Excavator*. , 2019, , .		1
29	Practice of flow control and smart valves. Journal of Zhejiang University: Science A, 2022, 23, 243-246.	2.4	1