

Wei Shen

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Control strategy analysis of the hydraulic hybrid excavator. Journal of the Franklin Institute, 2015, 352, 541-561.	3.4	102
2	Review of the Energy Saving Hydraulic System Based on Common Pressure Rail. IEEE Access, 2017, 5, 655-669.	4.2	54
3	An integral terminal sliding mode control scheme for speed control system using a double-variable hydraulic transformer. ISA Transactions, 2022, 124, 386-394.	5.7	41
4	Fuzzy sliding mode control with state estimation for velocity control system of hydraulic cylinder using a new hydraulic transformer. European Journal of Control, 2019, 48, 104-114.	2.6	36
5	A New Electric Hydraulic Actuator Adopted the Variable Displacement Pump. Asian Journal of Control, 2016, 18, 178-191.	3.0	35
6	Robust controller design of the integrated direct drive volume control architecture for steering systems. ISA Transactions, 2018, 78, 116-129.	5.7	27
7	Controller design for network-based Markovian jump systems with unreliable communication links. Complexity, 2016, 21, 623-634.	1.6	23
8	Robust Backstepping Sliding Mode Controller Investigation for a Port Plate Position Servo System Based on an Extended States Observer. Asian Journal of Control, 2019, 21, 302-311.	3.0	22
9	An extended state observer-based control design for electro-hydraulic position servomechanism. Control Engineering Practice, 2021, 109, 104730.	5.5	21
10	Adaptive sliding mode control of hydraulic systems with the event trigger and finite-time disturbance observer. Information Sciences, 2021, 569, 55-69.	6.9	21
11	Energy-Saving Analysis of Hydraulic Hybrid Excavator Based on Common Pressure Rail. Scientific World Journal, The, 2013, 2013, 1-12.	2.1	19
12	Effect of cavitation bubble collapse on hydraulic oil temperature. Journal of Central South University, 2016, 23, 1657-1668.	3.0	18
13	A new type of hydraulic cylinder system controlled by the new-type hydraulic transformer. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 2233-2245.	2.1	17
14	Adaptive Fuzzy Sliding Mode Control Based on Pi-sigma Fuzzy Neural Network for Hydraulic Hybrid Control System Using New Hydraulic Transformer. International Journal of Control, Automation and Systems, 2019, 17, 1708-1716.	2.7	15
15	Robust controller design for the excavator swing system under the active regulating common pressure rail. Transactions of the Institute of Measurement and Control, 2018, 40, 3323-3332.	1.7	12
16	Parameter Matching Analysis of Hydraulic Hybrid Excavators Based on Dynamic Programming Algorithm. Journal of Applied Mathematics, 2013, 2013, 1-10.	0.9	11
17	Fault tolerant control of nonlinear hydraulic systems with prescribed performance constraint. ISA Transactions, 2022, 131, 1-14.	5.7	10
18	High-Precision Position Tracking Control of Electro-hydraulic Servo Systems Based on an Improved Structure and Desired Compensation. International Journal of Control, Automation and Systems, 2021, 19, 3622.	2.7	9

#	ARTICLE	IF	CITATIONS
19	Reverse Nonlinear Sparrow Search Algorithm Based on the Penalty Mechanism for Multi-Parameter Identification Model Method of an Electro-Hydraulic Servo System. <i>Machines</i> , 2022, 10, 561.	2.2	9
20	Observer-Based Robust Control for Hydraulic Velocity Control System. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-9.	1.1	8
21	Comparative analysis of component design problems for integrated hydraulic transformers. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 389-407.	3.0	8
22	A robust controller design for networked hydraulic pressure control system based on CPR. <i>Peer-to-Peer Networking and Applications</i> , 2019, 12, 1651-1661.	3.9	6
23	Finite-time command filtered control combined with pi-sigma fuzzy neural network for hydraulic control system. <i>Asian Journal of Control</i> , 2021, 23, 2657-2668.	3.0	6
24	Robust force tracking control via backstepping sliding mode control and virtual damping control for hydraulic quadruped robots. <i>Journal of Central South University</i> , 2020, 27, 2673-2686.	3.0	6
25	An event-triggered based robust control for electro-hydraulic servo machines with active disturbances rejection. <i>Journal of the Franklin Institute</i> , 2022, 359, 2857-2885.	3.4	6
26	Review and Comparison of Clearance Control Strategies. <i>Machines</i> , 2022, 10, 492.	2.2	5
27	Angle Displacement Robust Controller for the Port Plate of the Hydraulic Transformer. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-9.	1.1	3
28	Speed tracking control for hydraulic transformer system based on active regulating common pressure rail. <i>IET Control Theory and Applications</i> , 2020, 14, 3547-3556.	2.1	3
29	Delay-Range-Dependent H _∞ Control for Automatic Mooring Positioning System with Time-Varying Input Delay. <i>Shock and Vibration</i> , 2014, 2014, 1-11.	0.6	1