Min Pan

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3784778/publications.pdf

Version: 2024-02-01

45 papers	1,283 citations	430874 18 h-index	361022 35 g-index
47 all docs	47 docs citations	47 times ranked	1055 citing authors

#	Article	IF	Citations
1	Flexible Multifunctional Sensors for Wearable and Robotic Applications. Advanced Materials Technologies, 2019, 4, 1800626.	5.8	221
2	Engineering research in fluid power: a review. Journal of Zhejiang University: Science A, 2015, 16, 427-442.	2.4	117
3	Challenges and Opportunities of Selfâ€Healing Polymers and Devices for Extreme and Hostile Environments. Advanced Materials, 2021, 33, e2008052.	21.0	82
4	A Review of High-Speed Electro-Hydrostatic Actuator Pumps in Aerospace Applications: Challenges and Solutions. Journal of Mechanical Design, Transactions of the ASME, 2019, 141, .	2.9	76
5	Vacuumâ€Powered Soft Pneumatic Twisting Actuators to Empower New Capabilities for Soft Robots. Advanced Materials Technologies, 2019, 4, 1800429.	5.8	72
6	Advanced Artificial Muscle for Flexible Materialâ€Based Reconfigurable Soft Robots. Advanced Science, 2019, 6, 1901371.	11.2	71
7	Triboelectric and Piezoelectric Nanogenerators for Future Soft Robots and Machines. IScience, 2020, 23, 101682.	4.1	70
8	Soft Actuators and Robotic Devices for Rehabilitation and Assistance. Advanced Intelligent Systems, 2022, 4, 2100140.	6.1	44
9	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
10	Experimental Investigation of a Switched Inertance Hydraulic System With a High-Speed Rotary Valve. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	1.6	36
11	Carbon fibre based flexible piezoresistive composites to empower inherent sensing capabilities for soft actuators. Soft Matter, 2019, 15, 8001-8011.	2.7	36
12	Experimental and numerical investigation of flow forces in a seat valve using a damping sleeve with orifices. Journal of Zhejiang University: Science A, 2018, 19, 417-430.	2.4	32
13	Theoretical and experimental studies of a switched inertance hydraulic system. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2014, 228, 12-25.	1.0	30
14	Experimental Study on the Influence of the Rotating Cylinder Block and Pistons on Churning Losses in Axial Piston Pumps. Energies, 2017, 10, 662.	3.1	30
15	Research on wear prediction of piston/cylinder pair in axial piston pumps. Wear, 2020, 456-457, 203338.	3.1	25
16	Novel three-piston pump design for a slipper test rig. Applied Mathematical Modelling, 2017, 52, 65-81.	4.2	22
17	Churning losses analysis on the thermal-hydraulic model of a high-speed electro-hydrostatic actuator pump. International Journal of Heat and Mass Transfer, 2018, 127, 1023-1030.	4.8	21
18	Digital switched hydraulics. Frontiers of Mechanical Engineering, 2018, 13, 225-231.	4.3	19

#	Article	IF	Citations
19	Theoretical and experimental studies of a switched inertance hydraulic system including switching transition dynamics, non-linearity and leakage. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2014, 228, 802-815.	1.0	17
20	Effects of splined shaft bending rigidity on cylinder tilt behaviour for high-speed electro-hydrostatic actuator pumps. Chinese Journal of Aeronautics, 2019, 32, 499-512.	5.3	17
21	Droplets passing through a soap film. Physics of Fluids, 2017, 29, .	4.0	16
22	An enhanced transmission line method for modelling laminar flow of liquid in pipelines. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2014, 228, 193-206.	1.0	15
23	Experimental study of an insert and its influence on churning losses in a high-speed electro-hydrostatic actuator pump of an aircraft. Chinese Journal of Aeronautics, 2019, 32, 2028-2036.	5.3	15
24	A Review of Switched Inertance Hydraulic Converter Technology1. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2020, 142, .	1.6	15
25	Use of Pipeline Wave Propagation Model for Measuring Unsteady Flow Rate. Journal of Fluids Engineering, Transactions of the ASME, 2014, 136, .	1.5	14
26	Soft Controllable Carbon Fibre-based Piezoresistive Self-Sensing Actuators. Actuators, 2020, 9, 79.	2.3	14
27	Effect of piston-slipper assembly mass difference on the cylinder block tilt in a high-speed electro-hydrostatic actuator pump of aircraft. International Journal of Precision Engineering and Manufacturing, 2017, 18, 995-1003.	2.2	13
28	An adhesive locomotion model for the rock-climbing fish, Beaufortia kweichowensis. Scientific Reports, 2019, 9, 16571.	3.3	13
29	Active control of pressure pulsation in a switched inertance hydraulic system. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2013, 227, 610-620.	1.0	12
30	Modeling and Analysis of the tilt behavior of the cylinder block in a high-speed axial piston pump. Mechanism and Machine Theory, 2022, 170, 104735.	4.5	10
31	3D Printing for Energy-Saving: Evidence from Hydraulic Manifolds Design. Energies, 2019, 12, 2462.	3.1	9
32	Solvent Sorption-Induced Actuation of Composites Based on a Polymer of Intrinsic Microporosity. ACS Applied Polymer Materials, 2021, 3, 920-928.	4.4	8
33	Adaptive Control of a Piezoelectric Valve for Fluid-Borne Noise Reduction in a Hydraulic Buck Converter. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	1.6	7
34	Piezoelectricâ€Driven Selfâ€Sensing Leafâ€Mimic Actuator Enabled by Integration of a Selfâ€Healing Dielectric Elastomer and a Piezoelectric Composite. Advanced Intelligent Systems, 2021, 3, 2000248.	6.1	7
35	Active control of fluid-bome noise in hydraulic systems using in-series and by-pass structures. , 2014, , .		5
36	Novel Integrated Active and Passive Control of Fluid-Borne Noise in Hydraulic Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2021, , .	1.6	5

#	Article	IF	Citations
37	Theoretical and Experimental Studies of a Digital Flow Booster Operating at High Pressures and Flow Rates. Processes, 2020, 8, 211.	2.8	5
38	Liquid jet leaping from a free surface. Physics of Fluids, 2017, 29, 071702.	4.0	4
39	Peanoâ€Hydraulically Amplified Selfâ€Healing Electrostatic Actuators Based on a Novel Bilayer Polymer Shell for Enhanced Strain, Load, and Rotary Motion. Advanced Intelligent Systems, 2022, 4, .	6.1	4
40	Hydraulic Pressure Ripple Energy Harvesting: Structures, Materials, and Applications. Advanced Energy Materials, 2022, 12, .	19.5	3
41	Switching characteristics of a high-speed rotary valve for switched inertance hydraulic converters. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2022, 236, 1421-1441.	1.0	3
42	Reconfigurable Soft Robots: Advanced Artificial Muscle for Flexible Materialâ€Based Reconfigurable Soft Robots (Adv. Sci. 21/2019). Advanced Science, 2019, 6, 1970128.	11.2	1
43	Piezoelectricâ€Driven Selfâ€Sensing Leafâ€Mimic Actuator Enabled by Integration of a Selfâ€Healing Dielectric Elastomer and a Piezoelectric Composite. Advanced Intelligent Systems, 2021, 3, 2170062.	6.1	1
44	Hydraulic Pressure Ripple Energy Harvesting: Structures, Materials, and Applications (Adv. Energy) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	19.5	0
45	Peanoâ€Hydraulically Amplified Selfâ€Healing Electrostatic Actuators Based on a Novel Bilayer Polymer Shell for Enhanced Strain, Load, and Rotary Motion. Advanced Intelligent Systems, 2022, 4, 2270022.	6.1	0