Min Pan

List of Publications by Year
in descending order

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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	Soft Actuators and Robotic Devices for Rehabilitation and Assistance. Advanced Intelligent Systems, 2022, 4, 2100140.	6.1	44
2	Hydraulic Pressure Ripple Energy Harvesting: Structures, Materials, and Applications. Advanced Energy Materials, 2022, 12, .	19.5	3
3	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
4	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
5	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
6	Hydraulic Pressure Ripple Energy Harvesting: Structures, Materials, and Applications (Adv. Energy) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	19.5	0
7	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
8	Solvent Sorption-Induced Actuation of Composites Based on a Polymer of Intrinsic Microporosity. ACS Applied Polymer Materials, 2021, 3, 920-928.	4.4	8
9	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
10	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
11	Challenges and Opportunities of Selfâ€Healing Polymers and Devices for Extreme and Hostile Environments. Advanced Materials, 2021, 33, e2008052.	21.0	82
12	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
13	Triboelectric and Piezoelectric Nanogenerators for Future Soft Robots and Machines. IScience, 2020, 23, 101682.	4.1	70
14	Soft Controllable Carbon Fibre-based Piezoresistive Self-Sensing Actuators. Actuators, 2020, 9, 79.	2.3	14
15	Research on wear prediction of piston/cylinder pair in axial piston pumps. Wear, 2020, 456-457, 203338.	3.1	25
16	A Review of Switched Inertance Hydraulic Converter Technology1. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2020, 142, .	1.6	15
17	Theoretical and Experimental Studies of a Digital Flow Booster Operating at High Pressures and Flow Rates. Processes, 2020, 8, 211.	2.8	5
18	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

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19	3D Printing for Energy-Saving: Evidence from Hydraulic Manifolds Design. Energies, 2019, 12, 2462.	3.1	9
20	Advanced Artificial Muscle for Flexible Materialâ€Based Reconfigurable Soft Robots. Advanced Science, 2019, 6, 1901371.	11.2	71
21	An adhesive locomotion model for the rock-climbing fish, Beaufortia kweichowensis. Scientific Reports, 2019, 9, 16571.	3.3	13
22	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
23	Carbon fibre based flexible piezoresistive composites to empower inherent sensing capabilities for soft actuators. Soft Matter, 2019, 15, 8001-8011.	2.7	36
24	Vacuumâ€Powered Soft Pneumatic Twisting Actuators to Empower New Capabilities for Soft Robots. Advanced Materials Technologies, 2019, 4, 1800429.	5.8	72
25	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
26	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
27	Flexible Multifunctional Sensors for Wearable and Robotic Applications. Advanced Materials Technologies, 2019, 4, 1800626.	5.8	221
28	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
29	Digital switched hydraulics. Frontiers of Mechanical Engineering, 2018, 13, 225-231.	4.3	19
30	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
31	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
32	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
33	Novel three-piston pump design for a slipper test rig. Applied Mathematical Modelling, 2017, 52, 65-81.	4.2	22
34	Liquid jet leaping from a free surface. Physics of Fluids, 2017, 29, 071702.	4.0	4
35	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
36	Droplets passing through a soap film. Physics of Fluids, 2017, 29, .	4.0	16

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37	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
38	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
39	Engineering research in fluid power: a review. Journal of Zhejiang University: Science A, 2015, 16, 427-442.	2.4	117
40	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
41	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
42	Use of Pipeline Wave Propagation Model for Measuring Unsteady Flow Rate. Journal of Fluids Engineering, Transactions of the ASME, 2014, 136, .	1.5	14
43	Active control of fluid-bome noise in hydraulic systems using in-series and by-pass structures. , 2014, , .		5
44	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
45	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