

Perry Y Li

List of Publications by Year in Descending Order

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Version: 2024-04-26

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106
papers

1,512
citations

21
h-index

35
g-index

131
ext. papers

1,796
ext. citations

4.1
avg, IF

4.8
L-index

#	Paper	IF	Citations
106	A Novel 3D Ring-Based Flapper Valve for Soft Robotic Applications. <i>Robotics</i> , 2022 , 11, 2	2.8	
105	Open Accumulator Isothermal Compressed Air Energy Storage (OA-ICAES) System 2022 , 409-437		
104	Human Gesture Robot Control Using a Camera/Accelerometer-in-Palm Sensor. <i>IFAC-PapersOnLine</i> , 2021 , 54, 284-289	0.7	
103	Optimal Control of the Energy-Saving Hybrid Hydraulic-Electric Architecture (HHEA) for Off-Highway Mobile Machines. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-12	4.8	0
102	Optimal Operation of a Hybrid Hydraulic Electric Architecture (HHEA) for Off-Road Vehicles Over Discrete Operating Decisions 2020 ,		2
101	Energetically Passive Multi-Degree-of-Freedom Hydraulic Human Power Amplifier With Assistive Dynamics. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 1296-1308	4.8	0
100	Energy management strategy for a power-split hydraulic hybrid vehicle based on Lagrange multiplier and its modifications. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2019 , 233, 511-523	1	5
99	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 1306-1315	5.5	5
98	Effects of porous media insert on the efficiency and power density of a high pressure (210 bar) liquid piston air compressor/expander An experimental study. <i>Applied Energy</i> , 2018 , 212, 1025-1037	10.7	28
97	Optimal Efficiency-Power Tradeoff for an Air Compressor/Expander. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2018 , 140,	1.6	2
96	How moisture content affects the performance of a liquid piston air compressor/expander. <i>Journal of Energy Storage</i> , 2018 , 18, 121-132	7.8	5
95	Virtual Vehicle Control Concept for Hydrostatic Dynamometer Control1. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2017 , 139,	1.6	1
94	Development of a novel compact hydraulic power unit for the exoskeleton robot. <i>Mechatronics</i> , 2016 , 38, 68-75	3	24
93	Design analysis of a liquid-piston compression chamber with application to compressed air energy storage. <i>Applied Thermal Engineering</i> , 2016 , 101, 704-709	5.8	17
92	An approach to reduce the flow requirement for a liquid piston near-isothermal air compressor/expander in a compressed air energy storage system. <i>IET Renewable Power Generation</i> , 2016 , 10, 1506-1514	2.9	13
91	Air Compression Performance Improvement via Trajectory Optimization: Experimental Validation 2016 ,		1
90	Modeling and control of an open accumulator Compressed Air Energy Storage (CAES) system for wind turbines. <i>Applied Energy</i> , 2015 , 137, 603-616	10.7	66

89	Combined Optimal Design and Control of a Near Isothermal Liquid Piston Air Compressor/Expander for a Compressed Air Energy Storage (CAES) System for Wind Turbines 2015 ,		6
88	Prototype Angle-Domain Repetitive Control-Affine Parameterization Approach. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015 , 137,	1.6	3
87	NUMERICAL MODELING OF THREE-DIMENSIONAL HEAT TRANSFER AND FLUID FLOWTHROUGH INTERRUPTED PLATES USING UNIT CELL SCALE. <i>Special Topics and Reviews in Porous Media</i> , 2015 , 6, 145-158	2.5	1
86	Experimental study of heat transfer enhancement in a liquid piston compressor/expander using porous media inserts. <i>Applied Energy</i> , 2015 , 154, 40-50	10.7	60
85	Optimal design of a compound hybrid system consisting of torque coupling and energy regeneration for hydraulic hybrid excavator 2015 ,		4
84	Passivity Based Backstepping Control for Trajectory Tracking Using a Hydraulic Transformer 2015 ,		4
83	Thermal analysis of a compressor for application to Compressed Air Energy Storage. <i>Applied Thermal Engineering</i> , 2014 , 73, 1402-1411	5.8	44
82	Numerical Analysis of Heat Exchangers Used in a Liquid Piston Compressor Using a One-Dimensional Model With an Embedded Two-Dimensional Submodel 2014 ,		3
81	2014 ,		2
80	Revenue maximization of electricity generation for a wind turbine integrated with a Compressed Air Energy Storage system 2014 ,		5
79	Natural Storage Function for Passivity-Based Trajectory Control of Hydraulic Actuators. <i>IEEE/ASME Transactions on Mechatronics</i> , 2014 , 19, 1057-1068	5.5	13
78	. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 230-235	5.9	14
77	Lattice-Based n-Point Time-Sequential Sampling and Two-Stage Process Control for Maintaining Tone Consistency of Xerographic Processes. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 2024-2037	4.8	1
76	Numerical Investigation of Metal-Foam Filled Liquid Piston Compressor Using a Two-Energy Equation Formulation Based on Experimentally Validated Models 2013 ,		4
75	Nonlinear Controller Design With Bandwidth Consideration for a Novel Compressed Air Energy Storage System 2013 ,		1
74	Optimization of the Axial Porosity Distribution of Porous Inserts in a Liquid-Piston Gas Compressor Using a One-Dimensional Formulation 2013 ,		3
73	Iterative optimal and adaptive control of a near isothermal liquid piston air compressor in a compressed air energy storage system 2013 ,		3
72	Fuel economy comparisons of series, parallel and HMT hydraulic hybrid architectures 2013 ,		3

71	Design of an Interrupted-Plate Heat Exchanger Used in a Liquid-Piston Compression Chamber for Compressed Air Energy Storage 2013 ,		7
70	Modeling and Trajectory Optimization of Water Spray Cooling in a Liquid Piston Air Compressor 2013 ,		5
69	Optimal Control Experimentation of Compression Trajectories for a Liquid Piston Air Compressor 2013 ,		1
68	The Center for Compact and Efficient Fluid Power. <i>Mechanical Engineering</i> , 2013 , 135, S2-S3	0.9	
67	Modeling and control of a novel compressed air energy storage system for offshore wind turbine 2012 ,		13
66	Design, Modeling, and Validation of a High-Speed Rotary Pulse-Width-Modulation On/Off Hydraulic Valve. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2012 , 134,	1.6	27
65	Displacement Control of Hydraulic Actuators Using a Passivity Based Nonlinear Controller 2012 ,		2
64	Optimal trajectories for a liquid piston compressor/expander in a Compressed Air Energy Storage system with consideration of heat transfer and friction 2012 ,		13
63	Passivity based adaptive control of a two chamber single rod hydraulic actuator 2012 ,		3
62	A nonlinear spring model of hydraulic actuator for passive controller design in bilateral tele-operation 2012 ,		6
61	Heat Transfer in a Long, Thin Tube Section of an Air Compressor: An Empirical Correlation From CFD and a Thermodynamic Modeling 2012 ,		3
60	Soft Switching Approach to Reducing Transition Losses in an On/Off Hydraulic Valve. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2012 , 134,	1.6	19
59	Achieving Dexterous Manipulation for Minimally Invasive Surgical Robots Through the Use of Hydraulics 2012 ,		4
58	Storage Power and Efficiency Analysis Based on CFD for Air Compressors Used for Compressed Air Energy Storage 2012 ,		3
57	Optimal Efficiency-Power Tradeoff for an Air Motor/Compressor With Volume Varying Heat Transfer Capability 2011 ,		8
56	Passivity Based Nonlinear Control of Hydraulic Actuators Based on an Euler-Lagrange Formulation 2011 ,		2
55	Optimal design of power-split transmissions for hydraulic hybrid passenger vehicles 2011 ,		3
54	Analysis and Control Design of a Hydro-Mechanical Hydraulic Hybrid Passenger Vehicle 2009 ,		3

53	Duty ratio control of a rotary PWM valve with periodic measurement error 2009 ,		2
52	Modeling and Validation of a High Speed Rotary PWM On/Off Valve 2009 ,		9
51	Liquid piston gas compression. <i>Applied Energy</i> , 2009 , 86, 2183-2191	10.7	108
50	Optimal Efficiency-Power Relationship for an Air Motor-Compressor in an Energy Storage and Regeneration System 2009 ,		9
49	Passive Bilateral Tele-Operation and Human Power Amplification With Pneumatic Actuators 2009 ,		7
48	Soft Switching Approach to Reducing Transition Losses in an On/Off Hydraulic Valve 2009 ,		3
47	Event based Kalman filter observer for rotary high speed on/off valve 2008 ,		2
46	Method to Characterize the Air Flow and Water Removal Characteristics during Vacuum Dewatering. Part I Experimental Method. <i>Drying Technology</i> , 2008 , 26, 334-340	2.6	4
45	Method to Characterize the Air Flow and Water Removal Characteristics During Vacuum Dewatering. Part II Analysis and Characterization. <i>Drying Technology</i> , 2008 , 26, 341-348	2.6	9
44	PASSIVE CONTROL OF FLUID POWERED HUMAN POWER AMPLIFIERS. <i>Proceedings of the JFPS International Symposium on Fluid Power</i> , 2008 , 2008, 207-212		1
43	Using Time-Sequential Sampling to Stabilize the Color and Tone Reproduction Functions of a Xerographic Printing Process. <i>IEEE Transactions on Control Systems Technology</i> , 2007 , 15, 349-357	4.8	4
42	Robust Optimal Design of Unstable Valves. <i>IEEE Transactions on Control Systems Technology</i> , 2007 , 15, 1065-1074	4.8	6
41	On/Off Valve Based Position Control of a Hydraulic Cylinder 2007 , 141		0
40	High Speed Rotary Pulse Width Modulated On/Off Valve 2007 , 89		15
39	Passive Decomposition Approach to Formation and Maneuver Control of Multiple Rigid Bodies. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2007 , 129, 662-677	1.6	29
38	Open Accumulator Concept for Compact Fluid Power Energy Storage 2007 , 127		21
37	Bond Graph Based Approach to Passive Teleoperation of a Hydraulic Backhoe. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2006 , 128, 176-185	1.6	11
36	Software Enabled Variable Displacement Pumps: Experimental Studies 2006 , 67		9

35	A New Passive Controller for a Hydraulic Human Power Amplifier 2006 , 1375		3
34	Fabrication of Integrated Pressure-Flow-Temperature Sensor for Hydraulic Systems 2006 ,		1
33	Using Steady Flow Force for Unstable Valve Design: Modeling and Experiments. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2005 , 127, 451-462	1.6	37
32	DSP utilization in digital color printing. <i>IEEE Signal Processing Magazine</i> , 2005 , 22, 104-109		9-4
31	Software Enabled Variable Displacement Pumps 2005 , 63		7
30	At-Home Systems and Controls Laboratory 2005 , 759		5
29	Integrated Pressure-Flow-Temperature Sensor for Hydraulic Systems 2005 ,		1
28	Passive Bilateral Teleoperation of a Hydraulic Actuator using an Electrohydraulic Passive Valve. <i>International Journal of Fluid Power</i> , 2004 , 5, 43-55		12
27	Self-Calibration of Push-Pull Solenoid Actuators in Electrohydraulic Valves 2004 , 269		2
26	Design and Control of a Hydraulic Human Power Amplifier 2004 , 385		5
25	Self-Sensing Actuators in Electrohydraulic Valves 2004 , 129		5
24	Pre-emptive control of moisture content in paper manufacturing using surrogate measurements. <i>Transactions of the Institute of Measurement and Control</i> , 2003 , 25, 36-56	1.8	4
23	Modeling and Experimental Study of Flow Forces for Unstable Valve Design 2003 , 29		1
22	Passive bilateral feedforward control of linear dynamically similar teleoperated manipulators. <i>IEEE Transactions on Automation Science and Engineering</i> , 2003 , 19, 443-456		57
21	Passive Teleoperation of a Multi Degree of Freedom Hydraulic Backhoe Using Dynamic Passive Valve 2003 ,		5
20	Traffic flow stability induced by constant time headway policy for adaptive cruise control vehicles. <i>Transportation Research Part C: Emerging Technologies</i> , 2002 , 10, 275-301	8.4	70
19	On Using Unstable Electrohydraulic Valves for Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2002 , 124, 183-190	1.6	17
18	Dynamic Redesign of a Flow Control Servovalve Using a Pressure Control Pilot1. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2002 , 124, 428-434	1.6	17

17	Mathematical Modeling of a Two Spool Flow Control Servo Valve Using a Pressure Control Pilot. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2002 , 124, 420-427	1.6	22
16	Single Degree of Freedom Passive Bilateral Hydraulic Teleoperation Using a Passified Two-Stage Servo-Valve. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 645-650		
15	PASSIFICATION OF ELECTROHYDRAULIC VALVES USING BOND GRAPHS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 31-36		0
14	Robust stabilization of tone reproduction curves for the xerographic printing process. <i>IEEE Transactions on Control Systems Technology</i> , 2001 , 9, 407-415	4.8	11
13	Passive velocity field control (PVFC). Part I. Geometry and robustness. <i>IEEE Transactions on Automatic Control</i> , 2001 , 46, 1346-1359	5.9	56
12	Passive velocity field control (PVFC). Part II. Application to contour following. <i>IEEE Transactions on Automatic Control</i> , 2001 , 46, 1360-1371	5.9	54
11	Toward Safe and Human Friendly Hydraulics: The Passive Valve. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2000 , 122, 402-409	1.6	20
10	Traffic flow control in automated highway systems. <i>Control Engineering Practice</i> , 1999 , 7, 1071-1078	3.9	27
9	. <i>IEEE Transactions on Automation Science and Engineering</i> , 1999 , 15, 751-763		117
8	AHS safe control laws for platoon leaders. <i>IEEE Transactions on Control Systems Technology</i> , 1997 , 5, 614-628	4.8	48
7	. <i>IEEE/ASME Transactions on Mechatronics</i> , 1997 , 2, 237-247	5.5	42
6	. <i>IEEE/ASME Transactions on Mechatronics</i> , 1997 , 2, 248-258	5.5	18
5	An Automated Highway System link layer controller for traffic flow stabilization. <i>Transportation Research Part C: Emerging Technologies</i> , 1997 , 5, 11-37	8.4	33
4	Safety Oriented Maneuvers for IVHS. <i>Vehicle System Dynamics</i> , 1996 , 26, 271-299	2.8	12
3	Traffic Flow Stabilization 1995 ,		3
2	Feedforward stabilization in a bimanual unloading task. <i>Experimental Brain Research</i> , 1992 , 89, 172-80	2.3	26
1	Mathematical modelling of the effect of sole elasticity distribution on pronation. <i>Journal of Biomechanics</i> , 1992 , 25, 501-10	2.9	