

# Perry Y Li

## List of Publications by Citations

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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	. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>1999</b> , 15, 751-763		117
105	Liquid piston gas compression. <i>Applied Energy</i> , <b>2009</b> , 86, 2183-2191	10.7	108
104	Traffic flow stability induced by constant time headway policy for adaptive cruise control vehicles. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2002</b> , 10, 275-301	8.4	70
103	Modeling and control of an open accumulator Compressed Air Energy Storage (CAES) system for wind turbines. <i>Applied Energy</i> , <b>2015</b> , 137, 603-616	10.7	66
102	Experimental study of heat transfer enhancement in a liquid piston compressor/expander using porous media inserts. <i>Applied Energy</i> , <b>2015</b> , 154, 40-50	10.7	60
101	Passive bilateral feedforward control of linear dynamically similar teleoperated manipulators. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2003</b> , 19, 443-456		57
100	Passive velocity field control (PVFC). Part I. Geometry and robustness. <i>IEEE Transactions on Automatic Control</i> , <b>2001</b> , 46, 1346-1359	5.9	56
99	Passive velocity field control (PVFC). Part II. Application to contour following. <i>IEEE Transactions on Automatic Control</i> , <b>2001</b> , 46, 1360-1371	5.9	54
98	AHS safe control laws for platoon leaders. <i>IEEE Transactions on Control Systems Technology</i> , <b>1997</b> , 5, 614-628	4.8	48
97	Thermal analysis of a compressor for application to Compressed Air Energy Storage. <i>Applied Thermal Engineering</i> , <b>2014</b> , 73, 1402-1411	5.8	44
96	. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>1997</b> , 2, 237-247	5.5	42
95	Using Steady Flow Force for Unstable Valve Design: Modeling and Experiments. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2005</b> , 127, 451-462	1.6	37
94	An Automated Highway System link layer controller for traffic flow stabilization. <i>Transportation Research Part C: Emerging Technologies</i> , <b>1997</b> , 5, 11-37	8.4	33
93	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> , <b>2007</b> , 129, 662-677	1.6	29
92	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> , <b>2018</b> , 212, 1025-1037	10.7	28
91	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> , <b>2012</b> , 134,	1.6	27
90	Traffic flow control in automated highway systems. <i>Control Engineering Practice</i> , <b>1999</b> , 7, 1071-1078	3.9	27

89	Feedforward stabilization in a bimanual unloading task. <i>Experimental Brain Research</i> , <b>1992</b> , 89, 172-80	2.3	26
88	Development of a novel compact hydraulic power unit for the exoskeleton robot. <i>Mechatronics</i> , <b>2016</b> , 38, 68-75	3	24
87	Mathematical Modeling of a Two Spool Flow Control Servovalve Using a Pressure Control Pilot1. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2002</b> , 124, 420-427	1.6	22
86	Open Accumulator Concept for Compact Fluid Power Energy Storage <b>2007</b> , 127		21
85	Toward Safe and Human Friendly Hydraulics: The Passive Valve. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2000</b> , 122, 402-409	1.6	20
84	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> , <b>2012</b> , 134,	1.6	19
83	. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>1997</b> , 2, 248-258	5.5	18
82	Design analysis of a liquid-piston compression chamber with application to compressed air energy storage. <i>Applied Thermal Engineering</i> , <b>2016</b> , 101, 704-709	5.8	17
81	On Using Unstable Electrohydraulic Valves for Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2002</b> , 124, 183-190	1.6	17
80	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> , <b>2002</b> , 124, 428-434	1.6	17
79	High Speed Rotary Pulse Width Modulated On/Off Valve <b>2007</b> , 89		15
78	. <i>IEEE Transactions on Automatic Control</i> , <b>2013</b> , 58, 230-235	5.9	14
77	Natural Storage Function for Passivity-Based Trajectory Control of Hydraulic Actuators. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2014</b> , 19, 1057-1068	5.5	13
76	Modeling and control of a novel compressed air energy storage system for offshore wind turbine <b>2012</b> ,		13
75	Optimal trajectories for a liquid piston compressor/expander in a Compressed Air Energy Storage system with consideration of heat transfer and friction <b>2012</b> ,		13
74	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> , <b>2016</b> , 10, 1506-1514	2.9	13
73	Passive Bilateral Teleoperation of a Hydraulic Actuator using an Electrohydraulic Passive Valve. <i>International Journal of Fluid Power</i> , <b>2004</b> , 5, 43-55		12
72	Safety Oriented Maneuvers for IVHS. <i>Vehicle System Dynamics</i> , <b>1996</b> , 26, 271-299	2.8	12

71	Bond Graph Based Approach to Passive Teleoperation of a Hydraulic Backhoe. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2006</b> , 128, 176-185	1.6	11
70	Robust stabilization of tone reproduction curves for the xerographic printing process. <i>IEEE Transactions on Control Systems Technology</i> , <b>2001</b> , 9, 407-415	4.8	11
69	Modeling and Validation of a High Speed Rotary PWM On/Off Valve <b>2009</b> ,		9
68	Optimal Efficiency-Power Relationship for an Air Motor-Compressor in an Energy Storage and Regeneration System <b>2009</b> ,		9
67	Method to Characterize the Air Flow and Water Removal Characteristics During Vacuum Dewatering. Part II Analysis and Characterization. <i>Drying Technology</i> , <b>2008</b> , 26, 341-348	2.6	9
66	Software Enabled Variable Displacement Pumps: Experimental Studies <b>2006</b> , 67		9
65	Optimal Efficiency-Power Tradeoff for an Air Motor/Compressor With Volume Varying Heat Transfer Capability <b>2011</b> ,		8
64	Design of an Interrupted-Plate Heat Exchanger Used in a Liquid-Piston Compression Chamber for Compressed Air Energy Storage <b>2013</b> ,		7
63	Passive Bilateral Tele-Operation and Human Power Amplification With Pneumatic Actuators <b>2009</b> ,		7
62	Software Enabled Variable Displacement Pumps <b>2005</b> , 63		7
61	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 <b>2015</b> ,		6
60	A nonlinear spring model of hydraulic actuator for passive controller design in bilateral tele-operation <b>2012</b> ,		6
59	Robust Optimal Design of Unstable Valves. <i>IEEE Transactions on Control Systems Technology</i> , <b>2007</b> , 15, 1065-1074	4.8	6
58	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> , <b>2019</b> , 233, 511-523	1	5
57	. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2019</b> , 24, 1306-1315	5.5	5
56	Revenue maximization of electricity generation for a wind turbine integrated with a Compressed Air Energy Storage system <b>2014</b> ,		5
55	Modeling and Trajectory Optimization of Water Spray Cooling in a Liquid Piston Air Compressor <b>2013</b> ,		5
54	Design and Control of a Hydraulic Human Power Amplifier <b>2004</b> , 385		5

53	Self-Sensing Actuators in Electrohydraulic Valves <b>2004</b> , 129		5
52	At-Home Systems and Controls Laboratory <b>2005</b> , 759		5
51	Passive Teleoperation of a Multi Degree of Freedom Hydraulic Backhoe Using Dynamic Passive Valve <b>2003</b> ,		5
50	How moisture content affects the performance of a liquid piston air compressor/expander. <i>Journal of Energy Storage</i> , <b>2018</b> , 18, 121-132	7.8	5
49	Optimal design of a compound hybrid system consisting of torque coupling and energy regeneration for hydraulic hybrid excavator <b>2015</b> ,		4
48	Passivity Based Backstepping Control for Trajectory Tracking Using a Hydraulic Transformer <b>2015</b> ,		4
47	Numerical Investigation of Metal-Foam Filled Liquid Piston Compressor Using a Two-Energy Equation Formulation Based on Experimentally Validated Models <b>2013</b> ,		4
46	Achieving Dexterous Manipulation for Minimally Invasive Surgical Robots Through the Use of Hydraulics <b>2012</b> ,		4
45	Method to Characterize the Air Flow and Water Removal Characteristics during Vacuum Dewatering. Part I: Experimental Method. <i>Drying Technology</i> , <b>2008</b> , 26, 334-340	2.6	4
44	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> , <b>2007</b> , 15, 349-357	4.8	4
43	Pre-emptive control of moisture content in paper manufacturing using surrogate measurements. <i>Transactions of the Institute of Measurement and Control</i> , <b>2003</b> , 25, 36-56	1.8	4
42	Numerical Analysis of Heat Exchangers Used in a Liquid Piston Compressor Using a One-Dimensional Model With an Embedded Two-Dimensional Submodel <b>2014</b> ,		3
41	Prototype Angle-Domain Repetitive Control-Affine Parameterization Approach. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2015</b> , 137,	1.6	3
40	Optimization of the Axial Porosity Distribution of Porous Inserts in a Liquid-Piston Gas Compressor Using a One-Dimensional Formulation <b>2013</b> ,		3
39	Iterative optimal and adaptive control of a near isothermal liquid piston air compressor in a compressed air energy storage system <b>2013</b> ,		3
38	Fuel economy comparisons of series, parallel and HMT hydraulic hybrid architectures <b>2013</b> ,		3
37	Analysis and Control Design of a Hydro-Mechanical Hydraulic Hybrid Passenger Vehicle <b>2009</b> ,		3
36	Optimal design of power-split transmissions for hydraulic hybrid passenger vehicles <b>2011</b> ,		3

35	Passivity based adaptive control of a two chamber single rod hydraulic actuator <b>2012</b> ,		3
34	Heat Transfer in a Long, Thin Tube Section of an Air Compressor: An Empirical Correlation From CFD and a Thermodynamic Modeling <b>2012</b> ,		3
33	Storage Power and Efficiency Analysis Based on CFD for Air Compressors Used for Compressed Air Energy Storage <b>2012</b> ,		3
32	Soft Switching Approach to Reducing Transition Losses in an On/Off Hydraulic Valve <b>2009</b> ,		3
31	A New Passive Controller for a Hydraulic Human Power Amplifier <b>2006</b> , 1375		3
30	Traffic Flow Stabilization <b>1995</b> ,		3
29	<b>2014</b> ,		2
28	Passivity Based Nonlinear Control of Hydraulic Actuators Based on an Euler-Lagrange Formulation <b>2011</b> ,		2
27	Duty ratio control of a rotary PWM valve with periodic measurement error <b>2009</b> ,		2
26	Displacement Control of Hydraulic Actuators Using a Passivity Based Nonlinear Controller <b>2012</b> ,		2
25	Event based Kalman filter observer for rotary high speed on/off valve <b>2008</b> ,		2
24	Self-Calibration of Push-Pull Solenoid Actuators in Electrohydraulic Valves <b>2004</b> , 269		2
23	Optimal Operation of a Hybrid Hydraulic Electric Architecture (HHEA) for Off-Road Vehicles Over Discrete Operating Decisions <b>2020</b> ,		2
22	Optimal Efficiency-Power Tradeoff for an Air Compressor/Expander. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2018</b> , 140,	1.6	2
21	Virtual Vehicle Control Concept for Hydrostatic Dynamometer Control1. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2017</b> , 139,	1.6	1
20	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> , <b>2013</b> , 21, 2024-2037	4.8	1
19	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> , <b>2015</b> , 6, 145-158	2.5	1
18	Nonlinear Controller Design With Bandwidth Consideration for a Novel Compressed Air Energy Storage System <b>2013</b> ,		1

17	Optimal Control Experimentation of Compression Trajectories for a Liquid Piston Air Compressor <b>2013</b> ,		1
16	Modeling and Experimental Study of Flow Forces for Unstable Valve Design <b>2003</b> , 29		1
15	Fabrication of Integrated Pressure-Flow-Temperature Sensor for Hydraulic Systems <b>2006</b> ,		1
14	Integrated Pressure-Flow-Temperature Sensor for Hydraulic Systems <b>2005</b> ,		1
13	PASSIVE CONTROL OF FLUID POWERED HUMAN POWER AMPLIFIERS. <i>Proceedings of the JFPS International Symposium on Fluid Power</i> , <b>2008</b> , 2008, 207-212		1
12	Air Compression Performance Improvement via Trajectory Optimization: Experimental Validation <b>2016</b> ,		1
11	On/Off Valve Based Position Control of a Hydraulic Cylinder <b>2007</b> , 141		0
10	PASSIFICATION OF ELECTROHYDRAULIC VALVES USING BOND GRAPHS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2002</b> , 35, 31-36		0
9	Optimal Control of the Energy-Saving Hybrid Hydraulic-Electric Architecture (HHEA) for Off-Highway Mobile Machines. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 1-12	4.8	0
8	Energetically Passive Multi-Degree-of-Freedom Hydraulic Human Power Amplifier With Assistive Dynamics. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 1296-1308	4.8	0
7	The Center for Compact and Efficient Fluid Power. <i>Mechanical Engineering</i> , <b>2013</b> , 135, S2-S3	0.9	
6	DSP utilization in digital color printing. <i>IEEE Signal Processing Magazine</i> , <b>2005</b> , 22, 104-109	9.4	
5	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> , <b>2002</b> , 35, 645-650		
4	Mathematical modelling of the effect of sole elasticity distribution on pronation. <i>Journal of Biomechanics</i> , <b>1992</b> , 25, 501-10	2.9	
3	Human Gesture Robot Control Using a Camera/Accelerometer-in-Palm Sensor. <i>IFAC-PapersOnLine</i> , <b>2021</b> , 54, 284-289	0.7	
2	A Novel 3D Ring-Based Flapper Valve for Soft Robotic Applications. <i>Robotics</i> , <b>2022</b> , 11, 2	2.8	
1	Open Accumulator Isothermal Compressed Air Energy Storage (OA-ICAES) System <b>2022</b> , 409-437		