

# Xiaopeng Li

## List of Publications by Year in descending order

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154  
papers

1,243  
citations

471061

17  
h-index

454577

30  
g-index

154  
all docs

154  
docs citations

154  
times ranked

1119  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal Placement and Sizing of Distributed Generation via an Improved Nondominated Sorting Genetic Algorithm II. IEEE Transactions on Power Delivery, 2015, 30, 569-578.	2.9	169
2	A forced gas cooling circle packaging with liquid cooling plate for the thermal management of Li-ion batteries under space environment. Applied Thermal Engineering, 2017, 123, 929-939.	3.0	79
3	Transient cooling effect analyses for a permanent-magnet synchronous motor with phase-change-material packaging. Applied Thermal Engineering, 2016, 109, 251-260.	3.0	47
4	Network-Based Coordinated Motion Control of Large-Scale Transportation Vehicles. IEEE/ASME Transactions on Mechatronics, 2007, 12, 208-215.	3.7	43
5	A Novel Discrete Compound Integral Terminal Sliding Mode Control With Disturbance Compensation For PMSM Speed System. IEEE/ASME Transactions on Mechatronics, 2022, 27, 549-560.	3.7	42
6	Thermal-fluid-structure coupling analysis for valve plate friction pair of axial piston pump in electrohydrostatic actuator (EHA) of aircraft. Applied Mathematical Modelling, 2017, 47, 839-858.	2.2	40
7	Counterbalancing Speed Control for Hydrostatic Drive Heavy Vehicle Under Long Down-Slope. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1533-1542.	3.7	35
8	Design of robust sliding mode control with disturbance observer for multi-axis coordinated traveling system. Computers and Mathematics With Applications, 2012, 64, 759-765.	1.4	33
9	Thermal-structural analysis of large deployable space antenna under extreme heat loads. Journal of Thermal Stresses, 2016, 39, 887-905.	1.1	31
10	Conception and experimental investigation of a hybrid temperature control method using phase change material for permanent magnet synchronous motors. Experimental Thermal and Fluid Science, 2017, 81, 9-20.	1.5	29
11	A Novel Cascade Temperature Control System for a High-Speed Heat-Airflow Wind Tunnel. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1310-1319.	3.7	28
12	A multi-index assessment method for evaluating coverage effectiveness of remote sensing satellite. Chinese Journal of Aeronautics, 2018, 31, 2023-2033.	2.8	27
13	Midterm Load Forecasting: A Multistep Approach Based on Phase Space Reconstruction and Support Vector Machine. IEEE Systems Journal, 2020, 14, 4967-4977.	2.9	26
14	A Three Degree-of-Freedom Optical Orientation Measurement Method for Spherical Actuator Applications. IEEE Transactions on Automation Science and Engineering, 2011, 8, 319-326.	3.4	22
15	A self-driven temperature and flow rate co-adjustment mechanism based on Shape-Memory-Alloy (SMA) assembly for an adaptive thermal control coldplate module with on-orbit service characteristics. Applied Thermal Engineering, 2017, 114, 744-755.	3.0	22
16	Posture Control of Electromechanical-Actuator-Based Thrust Vector System for Aircraft Engine. IEEE Transactions on Industrial Electronics, 2012, 59, 3561-3571.	5.2	21
17	Robust synthesized control of electromechanical actuator for thrust vector system in spacecraft. Computers and Mathematics With Applications, 2012, 64, 699-708.	1.4	19
18	Survey and Introduction to the Focused Section on Mechatronics for Sustainable and Resilient Civil Infrastructure. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1637-1646.	3.7	17

#	ARTICLE	IF	CITATIONS
19	Hybrid algorithm for traction transformer differential protection based on intrinsic mode function energy entropy and correlation dimension. IET Generation, Transmission and Distribution, 2014, 8, 1274-1283.	1.4	17
20	The decomposition and computation method for distributed optimal power flow based on message passing interface (MPI). International Journal of Electrical Power and Energy Systems, 2011, 33, 1185-1193.	3.3	16
21	Survey and study on intelligent monitoring and health management for large civil structure. International Journal of Intelligent Robotics and Applications, 2019, 3, 239-254.	1.6	16
22	Hybrid Robust Control Law with Disturbance Observer for High-Frequency Response Electro-Hydraulic Servo Loading System. Applied Sciences (Switzerland), 2016, 6, 98.	1.3	15
23	High-precision diameter detector and three-dimensional reconstruction method for oil and gas pipelines. Journal of Petroleum Science and Engineering, 2018, 165, 842-849.	2.1	15
24	An integrated hardware-in-the-loop verification approach for dual heat sink systems of aerospace single phase mechanically pumped fluid loop. Applied Thermal Engineering, 2016, 106, 1403-1414.	3.0	13
25	Active Disturbance Compensation Based Robust Control for Speed Regulation System of Permanent Magnet Synchronous Motor. Applied Sciences (Switzerland), 2020, 10, 709.	1.3	13
26	An Adaptive Robust Impedance Control Considering Energy-Saving of Hydraulic Excavator Boom and Stick Systems. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1928-1936.	3.7	12
27	Temperature Prediction and Thermal Boundary Simulation Using Hardware-in-Loop Method for Permanent Magnet Synchronous Motors. IEEE/ASME Transactions on Mechatronics, 2015, , 1-1.	3.7	11
28	Research on Reactive Power Optimization based on Adaptive Genetic Simulated Annealing Algorithm. , 2006, , .		10
29	Temperature control of permanent-magnet synchronous motor using phase change material. , 2015, , .		10
30	A Fast Reactive Power Optimization in Distribution Network Based on Large Random Matrix Theory and Data Analysis. Applied Sciences (Switzerland), 2016, 6, 158.	1.3	10
31	A novel low pressure-difference fluctuation electro-hydraulic large flowrate control valve for fuel flowrate control of aeroengine afterburner system. Chinese Journal of Aeronautics, 2022, 35, 363-376.	2.8	10
32	An Adaptive Fuzzy Trajectory Tracking Control via Improved Cerebellar Model Articulation Controller for Electro-Hydraulic Shovel. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2870-2880.	3.7	10
33	Elastic-plastic analysis for wet multidisc brake during repeated braking. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 2968-2981.	1.1	9
34	Construction and experimental verification of a novel flexible thermal control system configuration for the autonomous on-orbit services of space missions. Energy Conversion and Management, 2017, 138, 273-285.	4.4	9
35	Theoretical analysis and numerical simulation for the spill procedure of liquid fuel of fuel air explosive with shell. International Journal of Non-Linear Mechanics, 2010, 45, 699-703.	1.4	8
36	A new parallel particle filter face tracking method based on heterogeneous system. Journal of Real-Time Image Processing, 2012, 7, 153-163.	2.2	8

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37	Thermo-plastic finite element analysis for metal honeycomb structure. Thermal Science, 2013, 17, 1285-1291.	0.5	8
38	Welding deviation detection algorithm based on extremum of molten pool image contour. Chinese Journal of Mechanical Engineering (English Edition), 2016, 29, 74-83.	1.9	8
39	Subharmonic and Chaotic Motions of a Hybrid Squeeze-Film Damper-Mounted Rigid Rotor With Active Control. Journal of Vibration and Acoustics, Transactions of the ASME, 2002, 124, 198-208.	1.0	8
40	Undisturbed switching control of fuel flow-rate for a high-speed heat-airflow wind tunnel. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2014, 228, 2245-2254.	0.7	7
41	Deformation of Soft Tissue and Force Feedback Using the Smoothed Particle Hydrodynamics. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-10.	0.7	7
42	Short-term prediction of distribution network faults based on support vector machine. , 2017, , .		7
43	Short-term load prediction method for power distributing method based on back-propagation neural network. , 2017, , .		7
44	A Multi-information Particle Swarm Optimization Algorithm for Weapon Target Assignment of Multiple Kill Vehicle. , 2018, , .		7
45	Power loss and efficiency analysis of an onboard three-level brushless synchronous generator. International Journal of Electronics, 2021, 108, 1-20.	0.9	7
46	Gestures recognition of sEMG signal based on Random Forest. , 2021, , .		7
47	EXACT LINEARIZATION CONTROL FOR THE DISPLACEMENT TYPE OF ACTUATOR WITH ELECTRICAL AND HYDRAULIC COMPOUND ADJUSTMENT. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2004, 40, 21.	0.7	7
48	Research on Fault Diagnosis and Protect Model for DC Traction Power Supply System Based on Traveling Wave Theory. , 2006, , .		6
49	A Method for the Calculation of Frequency-Dependent Transmission Line Transformation Matrices. IEEE Transactions on Power Systems, 2009, 24, 552-560.	4.6	6
50	Optimal placement and sizing of distributed generation in distribution power system based on multi-objective harmony search algorithm. , 2013, , .		6
51	Review on Inlet/Outlet Oil Coordinated Control for Electro-Hydraulic Power Mechanism under Sustained Negative Load. Applied Sciences (Switzerland), 2018, 8, 886.	1.3	6
52	Metal Roof Fault Diagnosis Method Based on RBF-SVM. Complexity, 2020, 2020, 1-12.	0.9	6
53	Elastoplastic finite element analysis for wet multidisc brake during lasting braking. Thermal Science, 2015, 19, 2205-2217.	0.5	6
54	Thermal dynamics and thermal management strategy for a civil aircraft hydraulic system. Thermal Science, 2020, 24, 2311-2318.	0.5	6

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55	Posture Measurement and Coordinated Control of Twin Hoisting-Girder Transporters Based on Hybrid Network and RTK-GPS. <i>IEEE/ASME Transactions on Mechatronics</i> , 2009, 14, 141-150.	3.7	5
56	Compound sliding-mode predictive control for a temperature system of high-speed heat-airflow wind tunnel. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2014, 228, 1869-1879.	1.1	5
57	Improved Multiobjective Harmony Search Algorithm with Application to Placement and Sizing of Distributed Generation. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-8.	0.6	5
58	Development of electro-hydraulic proportion control system of track-laying machinery for high speed railway construction. <i>Mechatronics</i> , 2016, 40, 167-177.	2.0	5
59	Experimental Study on Gas Temperature Control for a High-Speed Heat-Airflow Wind Tunnel. <i>Journal of Aerospace Engineering</i> , 2016, 29, 04016054.	0.8	5
60	Inspection and Reconstruction of Metal-Roof Deformation under Wind Pressure Based on Bend Sensors. <i>Sensors</i> , 2017, 17, 1054.	2.1	5
61	State-of-the-art and some considerations on thermal load analysis and thermal management for hydraulic system in MEA. <i>Journal of Engineering</i> , 2018, 2018, 399-405.	0.6	5
62	Nonlinear dynamic modeling and analysis for aviation axial piston pump in center spring return mechanism. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2021, 40, 169-180.	1.3	5
63	Analysis of delay and traffic load in networked control system. , 0, , .		4
64	Weld pool image processing algorithm for seam tracking of welding robot. , 2011, , .		4
65	Introduction to the focused section on intelligent robotics for civil infrastructure. <i>International Journal of Intelligent Robotics and Applications</i> , 2017, 1, 239-242.	1.6	4
66	Backstepping adaptive control of dual-variable electro-hydraulic actuator with displacement-pressure regulation pump. , 2017, , .		4
67	Exergy based parametric analysis of a cooling and power co-generation system for the life support system of extravehicular spacesuits. <i>Renewable Energy</i> , 2018, 115, 1209-1219.	4.3	4
68	Numerical Investigation on the Thermal Performance of Nanofluid-Based Cooling System for Synchronous Generators. <i>Entropy</i> , 2019, 21, 420.	1.1	4
69	Design of infinite sliding mode state observer with application to CO2 absorption system of space station. <i>Acta Astronautica</i> , 2019, 161, 579-587.	1.7	4
70	Nonlinear predictive filter based fault diagnosis of oxygen generation system by using electrolytic water in space station. <i>Acta Astronautica</i> , 2020, 168, 230-241.	1.7	4
71	Multi-objective optimization and simulation of novel working mechanism for face-shovel excavator. <i>International Journal of Intelligent Robotics and Applications</i> , 2021, 5, 1-9.	1.6	4
72	Fuel Flowrate Control for Aeroengine and Fuel Thermal Management for Airborne System of Aircraft—An Overview. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 279.	1.3	4

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73	A Kind of Sliding Mode Control Strategy Based on Delay Estimation Online for Networked Control System with Stochastic Less Delay. , 2006, , .		3
74	Using combined characteristics to identify inrush current and internal fault current of traction transformer. , 2011, , .		3
75	Grey prediction and fuzzy control method for road tunnel ventilation. , 2011, , .		3
76	Contamination modeling and Kalman prediction method of construction machinery hydraulic system. , 2011, , .		3
77	Modeling and control of temperature of heat-calibration wind tunnel. Thermal Science, 2012, 16, 1433-1436.	0.5	3
78	Localization of leader-follower formations using kinect and RTK-GPS. , 2014, , .		3
79	Intensive cooling method for power electronic component with high heat flux. , 2014, , .		3
80	Design and implementation of gas temperature control system of heat-calibration wind tunnel. , 2014, , .		3
81	Robust iterative learning control for rolling control system. , 2014, , .		3
82	Trajectory Planning Based on Minimum Input Energy for the Electro-Hydraulic Cable Shovel. , 2020, , .		3
83	UKF-Based State Estimation for Electrolytic Oxygen Generation System of Space Station. Applied Sciences (Switzerland), 2021, 11, 2021.	1.3	3
84	A Dual-Power Coordinated Control for Swing System of Hydraulic-Electric Hybrid Excavator. , 2021, , .		3
85	Design and Simulation of Large Flowrate Fuel Metering Valve of Aero engine Based on AMESim. , 2020, , .		3
86	A Class of Disturbance-estimated Sliding Mode Control Strategy for Uncertain Networked Control System. , 2006, , .		2
87	Research on Automatic Drive Technology of High-speed Railway Rail-laying Vehicles. , 2006, , .		2
88	Research on Chaos Dynamic Characteristics of Hybrid Squeeze Film Damper with Electro-hydraulic Active Control. , 2008, , .		2
89	Attitude measurement of driver's head based on accelerometer and magnetoresistive sensor. , 2011, , .		2
90	Design of model reference adaptive control law of steering mechanism for heavy duty vehicle. , 2012, , .		2

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91	Single neuron PID controller based on adaptive Smith predictor for networked control systems. , 2012, , .		2
92	Experiment and modeling on heat power of permanent-magnet synchronous motor. , 2013, , .		2
93	Construction method and implementation of hardware-in-the-loop real-time dynamic simulation platform for airborne environment control system. , 2015, , .		2
94	Design and mechanical performance analysis of relief valve with permanent magnet spring. , 2016, , .		2
95	Assembly states identification for electromechanical actuator based on motor current signal analysis. , 2017, , .		2
96	Analysis of power loss of permanent magnet synchronous motors in more-electric-aircraft considering the impact of temperature. , 2018, , .		2
97	Design of environment parameter adjustment system for greenhouse based on STM32. , 2018, , .		2
98	Research on Control Methods for the Pressure Continuous Regulation Electrohydraulic Proportional Axial Piston Pump of an Aircraft Hydraulic System. Applied Sciences (Switzerland), 2019, 9, 1376.	1.3	2
99	Multi-pump Pressure Equalization Control Strategy of Pressure Continuous Regulation Electrohydraulic Proportional Axial Piston Pumps for Airborne Hydraulic System. , 2019, , .		2
100	A coordinated control law for inlet/outlet independent regulation of electro-hydraulic speed control system under sustained negative load. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 1689-1705.	1.1	2
101	Temperature distribution of a test specimen with high-speed heat air-flow passing through. Thermal Science, 2018, 22, 2527-2538.	0.5	2
102	Research on Reactive Power Optimization Based on Immunity Genetic Algorithm. Lecture Notes in Computer Science, 2006, , 600-611.	1.0	2
103	Investigation on Key Techniques of Measurement Device of Position and Attitude Applied in Large-Scale Pushing Bridge Construction Machinery. , 2008, , .		1
104	A multi-degree-of-freedom orientation measurement methodology with laser detection. , 2009, , .		1
105	A novel temperature based flat-plate heat flux sensor for high accuracy measurement. , 2009, , .		1
106	Surface reconstruction from sparse non-parallel cross-sections for freehand 3D ultrasound using variational implicit functions. , 2011, , .		1
107	Study on control strategies for oil-fuel supply system used in supersonic combustion wind tunnel. , 2011, , .		1
108	H <sub>∞</sub> mixed sensitivity designing for displacement regulation of airborne variable displacement pump supplying. , 2011, , .		1

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109	Path-following control for multi-axle car-like wheeled mobile robot with nonholonomic constraint. , 2013, , .		1
110	Analysis of Stiffened Penstock External Pressure Stability Based on Immune Algorithm and Neural Network. Mathematical Problems in Engineering, 2014, 2014, 1-11.	0.6	1
111	Design and calculation of return mechanism of axial piston pump with centre-spring supporter. , 2015, , .		1
112	A fast estimating model for deformation of metal roof sheathing with wind pressure load. , 2015, , .		1
113	Temperature estimation of stator winding for permanent magnet synchronous motor used in electro-hydrostatic actuator. , 2015, , .		1
114	Study of amplification coefficient in a water-cooling Gardon-type heat power measuring apparatus. Chinese Journal of Aeronautics, 2015, 28, 410-417.	2.8	1
115	Quantitative Assessment of Variational Surface Reconstruction from Sparse Point Clouds in Freehand 3D Ultrasound Imaging during Image-Guided Tumor Ablation. Applied Sciences (Switzerland), 2016, 6, 114.	1.3	1
116	Development of simulation platform for physicochemical regenerative environment control and life support system in space station. , 2016, , .		1
117	Bearing characteristics analysis and multi-field coupling simulation on slipper-piston component. , 2016, , .		1
118	Optimal path planning for multi-target observation of remote sensing satellite. , 2016, , .		1
119	An approach to analyze and model the information flow on spacecraft platform network. , 2017, , .		1
120	Application of Improved GSA Algorithm and Time Series Method in Bad Data Identification in Power System. , 2018, , .		1
121	The Identification of Sputum Situation Based on the Sound from the Respiratory Tract. , 2018, , .		1
122	Identification and compensation of nonlinearity for airborne electromechanical actuator based on Matlab/dSPACE. , 2018, , .		1
123	Digital Simulation Analysis of Influence of Distributed Wind Power Generation connected on node voltage of Distributed Network. , 2019, , .		1
124	Galerkin-based extended Kalman filter with application to CO2 removal system. Journal of Central South University, 2020, 27, 1780-1789.	1.2	1
125	Comprehensive Performance Evaluation of Large Span Metal Roof Based on AHP-FCE. , 2020, , .		1
126	Research on Impact of Distributed Photovoltaic Grid Connection on Three-section Current Protection Strategy of Distribution Network. , 2020, , .		1



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127	Simulation Technique of Optical Properties and its Applications for Complicated Appearance of Aeronautical Transparencies. , 2020, , .		1
128	Temperature Dynamic Characteristics Analysis and Thermal Load Dissipation Assessment for Airliner Hydraulic System in a Full Flight Mission Profile. Machines, 2022, 10, 258.	1.2	1
129	Study of Motion Synchronization for Dual-path Electro-hydraulic Control Systems Based on Computer Visual Feedback. , 2006, , .		0
130	Algorithms for Blocking Reclosing onto Permanent Faults and Fault Distance Calculation in DC Traction Power Supply System. , 2007, , .		0
131	Errata to "Network-Based Coordinated Motion Control of Large-Scale Transportation Vehicles", IEEE/ASME Transactions on Mechatronics, 2007, 12, 504-504.	3.7	0
132	A Robust Sliding Mode Control With RBFNN Compensation For Uncertain Networked Control System. , 2008, , .		0
133	Dissimilar Redundancy Measurement of Swashplate Angle of Variable Pump Based on the Exact Linearization Model of EHCA. , 2008, , .		0
134	Accurate Estimation of Posture and Velocity with Application to Coordinated Motion Control of Twin Hoisting-Girder Transporters. , 2008, , .		0
135	The Computer Aided Emergency Management System for Highway Tunnels. , 2009, , .		0
136	Concept design and dynamic response analysis of electro-hydraulic compound regulating integrated actuator. , 2009, , .		0
137	Development of computer controlled loading system of helicopter manipulating booster. , 2011, , .		0
138	Experimental research on heat power measuring method using Cylindrical Gardon sensor. , 2012, , .		0
139	Coordinated and optimal acceleration and deceleration driving control for multi-axle hydrostatic driving vehicle. , 2012, , .		0
140	Intelligent fault diagnosis methodology of hydraulic traveling system for construction machinery. , 2012, , .		0
141	Networked sliding mode control for leveling subsystem of multi-axle transportation vehicles. , 2012, , .		0
142	Surface Reconstruction from Sparse and Mutually Intersected Contours for Freehand 3D Ultrasound Using Variational Method. , 2012, , .		0
143	Modeling and analysis of the predictive control effects on nano-satellite's heat-pipe thermal system. , 2012, , .		0
144	System Simulation and Control in Engineering. Mathematical Problems in Engineering, 2014, 2014, 1-1.	0.6	0

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145	Energy-loss mechanism and load capacity analysis of slipper pair in an aerial axial piston pump. , 2015, , .		0
146	An improved hybrid suppression method for extraneous force of high-frequency electro-hydraulic loading system. , 2015, , .		0
147	A multi-object black hole gravitational search algorithm for day-ahead reactive optimization in distribution network. , 2016, , .		0
148	Analysis of atmospheric circulation for physicochemical regenerative environment control and life support system in space station. , 2016, , .		0
149	Distributed multisource control of enclosed temperature field based on double closed-loop fuzzy control strategy for salt-fog laboratory. , 2016, , .		0
150	Workspace solution and PID control of 3-DOF parallel mechanism based on Matlab/SimMechanics. , 2017, , .		0
151	Excitation current calculation of a brushless synchronous generator under different speed and load. , 2018, , .		0
152	Study on PMSM Power Consumption of Dual-Variable Electro-Hydraulic Actuator with Displacement-Pressure Regulation Pump. , 2018, , .		0
153	Design and of Control System of Simulating on Rotational Speed and Torque of Central Transmission System Test Rig for Earth-Moving Vehicle. , 2018, , .		0
154	Modular damping platform control based on adaptive filter method. , 2018, , .		0