Xiaopeng Li

List of Publications by Year
in descending order

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	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
2	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
3	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
4	Fuel Flowrate Control for Aeroengine and Fuel Thermal Management for Airborne System of Aircraftâ€"An Overview. Applied Sciences (Switzerland), 2022, 12, 279.	1.3	4
5	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
6	Power loss and efficiency analysis of an onboard three-level brushless synchronous generator. International Journal of Electronics, 2021, 108, 1-20.	0.9	7
7	Nonlinear dynamic modeling and analysis for aviation axial piston pump in center spring return mechanism. Journal of Low Frequency Noise Vibration and Active Control, 2021, 40, 169-180.	1.3	5
8	UKF-Based State Estimation for Electrolytic Oxygen Generation System of Space Station. Applied Sciences (Switzerland), 2021, 11, 2021.	1.3	3
9	A Dual-Power Coordinated Control for Swing System of Hydraulic-Electric Hybrid Excavator. , 2021, , .		3
10	Gestures recognition of sEMG signal based on Random Forest. , 2021, , .		7
11	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
12	Multi-objective optimization and simulation of novel working mechanism for face-shovel excavator. International Journal of Intelligent Robotics and Applications, 2021, 5, 1-9.	1.6	4
13	Nonlinear predictive filter based fault diagnosis of oxygen generation system by using electrolytic water in space station. Acta Astronautica, 2020, 168, 230-241.	1.7	4
14	Galerkin-based extended Kalman filter with application to CO_2 removal system. Journal of Central South University, 2020, 27, 1780-1789.	1.2	1
15	Comprehensive Performance Evaluation of Large Span Metal Roof Based on AHP-FCE. , 2020, , .		1
16	Trajectory Planning Based on Minimum Input Energy for the Electro-Hydraulic Cable Shovel. , 2020, , .		3
17	Metal Roof Fault Diagnosis Method Based on RBF-SVM. Complexity, 2020, 2020, 1-12.	0.9	6
18	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

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19	Active Disturbance Compensation Based Robust Control for Speed Regulation System of Permanent Magnet Synchronous Motor. Applied Sciences (Switzerland), 2020, 10, 709.	1.3	13
20	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
21	Design and Simulation of Large Flowrate Fuel Metering Valve of Aero engine Based on AMESim. , 2020, , .		3
22	Thermal dynamics and thermal management strategy for a civil aircraft hydraulic system. Thermal Science, 2020, 24, 2311-2318.	0.5	6
23	Research on Impact of Distributed Photovoltaic Grid Connection on Three-section Current Protection Strategy of Distribution Network. , 2020, , .		1
24	Simulation Technique of Optical Properties and its Applications for Complicated Appearance of Aeronautical Transparencies. , 2020, , .		1
25	Numerical Investigation on the Thermal Performance of Nanofluid-Based Cooling System for Synchronous Generators. Entropy, 2019, 21, 420.	1.1	4
26	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
27	Design of infinite sliding mode state observer with application to CO_2 absorption system of space station. Acta Astronautica, 2019, 161, 579-587.	1.7	4
28	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
29	Multi-pump Pressure Equalization Control Strategy of Pressure Continuous Regulation Electrohydraulic Proportional Axial Piston Pumps for Airborne Hydraulic System. , 2019, , .		2
30	Digital Simulation Analysis of Influence of Distributed Wind Power Generation connected on node voltage of Distribued Network. , 2019, , .		1
31	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
32	Exergy based parametric analysis of a cooling and power co-generation system for the life support system of extravehicular spacesuits. Renewable Energy, 2018, 115, 1209-1219.	4.3	4
33	A Multi-information Particle Swarm Optimization Algorithm for Weapon Target Assignment of Multiple Kill Vehicle. , 2018, , .		7
34	Application of Improved GSA Algorithm and Time Series Method in Bad Data Identification in Power System. , 2018, , .		1
35	Excitation current calculation of a brushless synchronous generator under different speed and load. , 2018, , .		0
36	Study on PMSM Power Consumption of Dual-Variable Electro-Hydraulic Actuator with Displacement-Pressure Regulation Pump. , 2018, , .		0

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37	The Identification of Sputum Situation Based on the Sound from the Respiratory Tract. , 2018, , .		1
38	Analysis of power loss of permanent magnet synchronous motors in more-electric-aircraft considering the impact of temperature. , 2018, , .		2
39	Design and of Control System of Simulating on Rotational Speed and Torque of Central Transmission System Test Rig for Earth-Moving Vehicle. , 2018, , .		0
40	A multi-index assessment method for evaluating coverage effectiveness of remote sensing satellite. Chinese Journal of Aeronautics, 2018, 31, 2023-2033.	2.8	27
41	Identification and compensation of nonlinearity for airborne electromechanical actuator based on Matlab/dSPACE. , 2018, , .		1
42	Design of environment parameter adjustment system for greenhouse based on STM32. , 2018, , .		2
43	Stateâ€ofâ€theâ€art and some considerations on thermal load analysis and thermal management for hydraulic system in MEA. Journal of Engineering, 2018, 2018, 399-405.	0.6	5
44	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
45	Modular damping platform control based on adaptive filter method. , 2018, , .		0
46	Temperature distribution of a test specimen with high-speed heat air-flow passing through. Thermal Science, 2018, 22, 2527-2538.	0.5	2
47	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
48	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
49	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
50	Introduction to the focused section on intelligent robotics for civil infrastructure. International Journal of Intelligent Robotics and Applications, 2017, 1, 239-242.	1.6	4
51	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
52	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
53	Short-term prediction of distribution network faults based on support vector machine. , 2017, , .		7
54	Workspace solution and PID control of 3-DOF parallel mechanism based on Matlab/SimMechanics. , 2017, , .		0

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55	Backstepping adaptive control of dual-variable electro-hydraulic actuator with displacement-pressure regulation pump. , 2017, , .		4
56	An approach to analyze and model the information flow on spacecraft platform network. , 2017, , .		1
57	Short-term load prediction method for power distributing method based on back-propagation neural network. , 2017, , .		7
58	Assembly states identification for electromechanical actuator based on motor current signal analysis. , 2017, , .		2
59	Inspection and Reconstruction of Metal-Roof Deformation under Wind Pressure Based on Bend Sensors. Sensors, 2017, 17, 1054.	2.1	5
60	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
61	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
62	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
63	Development of simulation platform for physicochemical regenerative environment control and life support system in space station. , 2016, , .		1
64	Bearing characteristics analysis and multi-field coupling simulation on slipper-piston component. , 2016, , .		1
65	A multi-object black hole gravitational search algorithm for day-ahead reactive optimization in distribution network. , 2016, , .		0
66	Optimal path planning for multi-target observation of remote sensing satellite. , 2016, , .		1
67	Analysis of atmospheric circulation for physicochemical regenerative environment control and life support system in space station. , 2016, , .		0
68	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
69	Distributed multisource control of enclosed temperature field based on double closed-loop fuzzy control strategy for salt-fog laboratory. , 2016, , .		0
70	Design and mechanical performance analysis of relief valve with permanent magnet spring. , 2016, , .		2
71	Development of electro-hydraulic proportion control system of track-laying machinery for high speed railway construction. Mechatronics, 2016, 40, 167-177.	2.0	5
72	Thermal–structural analysis of large deployable space antenna under extreme heat loads. Journal of Thermal Stresses, 2016, 39, 887-905.	1.1	31

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73	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
74	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
75	Experimental Study on Gas Temperature Control for a High-Speed Heat-Airflow Wind Tunnel. Journal of Aerospace Engineering, 2016, 29, 04016054.	0.8	5
76	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
77	Design and calculation of return mechanism of axial piston pump with centre-spring supporter. , 2015, , .		1
78	A fast estimating model for deformation of metal roof sheathing with wind pressure load. , 2015, , .		1
79	Energy-loss mechanism and load capacity analysis of slipper pair in an aerial axial piston pump. , 2015, , .		0
80	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
81	An improved hybrid suppression method for extraneous force of high-frequency electro-hydraulic loading system. , 2015, , .		0
82	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
83	Counterbalancing Speed Control for Hydrostatic Drive Heavy Vehicle Under Long Down-Slope. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1533-1542.	3.7	35
84	Temperature estimation of stator winding for permanent magnet synchronous motor used in electro-hydrostatic actuator. , 2015, , .		1
85	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
86	Construction method and implementation of hardware-in-the-loop real-time dynamic simulation platform for airborne environment control system. , 2015, , .		2
87	Temperature control of permanent-magnet synchronous motor using phase change material. , 2015, , .		10
88	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
89	Elastoplastic finite element analysis for wet multidisc brake during lasting braking. Thermal Science, 2015, 19, 2205-2217.	0.5	6
90	System Simulation and Control in Engineering. Mathematical Problems in Engineering, 2014, 2014, 1-1.	0.6	0

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91	Compound sliding-mode predictive control for a temperature system of high-speed heat-airflow wind tunnel. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 1869-1879.	1.1	5
92	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
93	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
94	Improved Multiobjective Harmony Search Algorithm with Application to Placement and Sizing of Distributed Generation. Mathematical Problems in Engineering, 2014, 2014, 1-8.	0.6	5
95	Localization of leader-follower formations using kinect and RTK-GPS. , 2014, , .		3
96	Intensive cooling method for power electronic component with high heat flux. , 2014, , .		3
97	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
98	Design and implementation of gas temperature control system of heat-calibration wind tunnel. , 2014, , .		3
99	Robust iterative learning control for rolling control system. , 2014, , .		3
100	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
101	Path-following control for multi-axle car-like wheeled mobile robot with nonholonomic constraint. , 2013, , .		1
102	Optimal placement and sizing of distributed generation in distribution power system based on multi-objective harmony search algorithm. , 2013, , .		6
103	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
104	Experiment and modeling on heat power of permanent-magnet synchronous motor. , 2013, , .		2
105	Thermo-plastic finite element analysis for metal honeycomb structure. Thermal Science, 2013, 17, 1285-1291.	0.5	8
106	Modeling and control of temperature of heat-calibration wind tunnel. Thermal Science, 2012, 16, 1433-1436.	0.5	3
107	Experimental research on heat power measuring method using Cylindraceous Gardon sensor. , 2012, , .		0
108	Coordinated and optimal acceleration and deceleration driving control for multi-axle hydrostatic driving vehicle. , 2012, , .		0

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109	Intelligent fault diagnosis methodology of hydraulic traveling system for construction machinery. , 2012, , .		0
110	Networked sliding mode control for leveling subsystem of multi-axle transportation vehicles. , 2012, , .		0
111	Surface Reconstruction from Sparse and Mutually Intersected Contours for Freehand 3D Ultrasound Using Variational Method. , 2012, , .		0
112	Robust synthesized control of electromechanical actuator for thrust vector system in spacecraft. Computers and Mathematics With Applications, 2012, 64, 699-708.	1.4	19
113	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
114	Modeling and analysis of the predictive control effects on nano-satellite's heat-pipe thermal system. , 2012, , .		0
115	Design of model reference adaptive control law of steering mechanism for heavy duty vehicle. , 2012, , .		2
116	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
117	Single neuron PID controller based on adaptive Smith predictor for networked control systems. , 2012, , .		2
118	Posture Control of Electromechanical-Actuator-Based Thrust Vector System for Aircraft Engine. IEEE Transactions on Industrial Electronics, 2012, 59, 3561-3571.	5.2	21
119	Weld pool image processing algorithm for seam tracking of welding robot. , 2011, , .		4
120	Using combined characteristics to identify inrush current and internal fault current of traction transformer. , 2011, , .		3
121	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
122	Grey prediction and fuzzy control method for road tunnel ventilation. , 2011, , .		3
123	Surface reconstruction from sparse non-parallel cross-sections for freehand 3D ultrasound using variational implicit functions. , 2011, , .		1
124	Study on control strategies for oil-fuel supply system used in supersonic combustion wind tunnel. , 2011, , .		1
125	Attitude measurement of driver's head based on accelerometer and magnetoresistive sensor. , 2011, , .		2
126	Contamination modeling and Kalman prediction method of construction machinery hydraulic system. , 2011, , .		3

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127	H<inf>∞</inf> mixed sensitivity designing for displacement regulation of airborne variable displacement pump supplying. , 2011, , .		1
128	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
129	Development of computer controlled loading system of helicopter manipulating booster. , 2011, , .		0
130	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
131	The Computer Aided Emergency Management System for Highway Tunnels. , 2009, , .		0
132	Concept design and dynamic response analysis of electro-hydraulic compound regulating integrated actuator. , 2009, , .		0
133	A multi-degree-of-freedom orientation measurement methodology with laser detection. , 2009, , .		1
134	A Method for the Calculation of Frequency-Dependent Transmission Line Transformation Matrices. IEEE Transactions on Power Systems, 2009, 24, 552-560.	4.6	6
135	Posture Measurement and Coordinated Control of Twin Hoisting-Girder Transporters Based on Hybrid Network and RTK-GPS. IEEE/ASME Transactions on Mechatronics, 2009, 14, 141-150.	3.7	5
136	A novel temperature based flat-plate heat flux sensor for high accuracy measurement. , 2009, , .		1
137	A Robust Sliding Mode Control With RBFNN Compensation For Uncertain Networked Control System. , 2008, , .		0
138	Research on Chaos Dynamic Characteristics of Hybrid Squeeze Film Damper with Electro-hydraulic Active Control. , 2008, , .		2
139	Investigation on Key Techniques of Measurement Device of Position and Attitude Applied in Large-Scale Pushing Bridge Construction Machinery. , 2008, , .		1
140	Dissimilar Redundancy Measurement of Swashplate Angle of Variable Pump Based on the Exact Linearization Model of EHCA. , 2008, , .		0
141	Accurate Estimation of Posture and Velocity with Application to Coordinated Motion Control of Twin Hoisting-Girder Transporters. , 2008, , .		0
142	Algorithms for Blocking Reclosing onto Permanent Faults and Fault Distance Calculation in DC Traction Power Supply System. , 2007, , .		0
143	Network-Based Coordinated Motion Control of Large-Scale Transportation Vehicles. IEEE/ASME Transactions on Mechatronics, 2007, 12, 208-215.	3.7	43
144	Errata to â€œNetwork-Based Coordinated Motion Control of Large-Scale Transportation Vehiclesâ€. IEEE/ASME Transactions on Mechatronics, 2007, 12, 504-504.	3.7	0

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145	A Class of Disturbance-estimated Sliding Mode Control Strategy for Uncertain Networked Control System. , 2006, , .		2
146	Study of Motion Synchronization for Dual-path Electro-hydraulic Control Systems Based on Computer Visual Feedback. , 2006, , .		0
147	Research on Fault Diagnosis and Protect Model for DC Traction Power Supply System Based on Traveling Wave Theory. , 2006, , .		6
148	Research on Automatic Drive Technology of High-speed Railway Rail-laying Vehicles. , 2006, , .		2
149	A Kind of Sliding Mode Control Strategy Based on Delay Estimation Online for Networked Control System with Stochastic Less Delay. , 2006, , .		3
150	Research on Reactive Power Optimization based on Adaptive Genetic Simulated Annealing Algorithm. , 2006, , .		10
151	Research on Reactive Power Optimization Based on Immunity Genetic Algorithm. Lecture Notes in Computer Science, 2006, , 600-611.	1.0	2
152	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
153	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
154	Analysis of delay and traffic load in networked control system. , 0, , .		4