Cheng Lin

List of Publications by Year
in descending order

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61 papers	1,036 citations	516710 16 h-index	454955 30 g-index
62 all docs	62 docs citations	62 times ranked	994 citing authors

#	Article	IF	Citations
1	Lithium-Ion Battery Parameters and State-of-Charge Joint Estimation Based on H-Infinity and Unscented Kalman Filters. IEEE Transactions on Vehicular Technology, 2017, 66, 8693-8701.	6.3	177
2	A Sensor Fault Diagnosis Method for a Lithium-Ion Battery Pack in Electric Vehicles. IEEE Transactions on Power Electronics, 2019, 34, 9709-9718.	7.9	170
3	Aging Mechanisms of Electrode Materials in Lithium-Ion Batteries for Electric Vehicles. Journal of Chemistry, 2015, 2015, 1-11.	1.9	77
4	Detecting undesired lithium plating on anodes for lithium-ion batteries â€“ A review on the in-situ methods. Applied Energy, 2021, 300, 117386.	10.1	59
5	Optimization of integrated energy management for a dual-motor coaxial coupling propulsion electric city bus. Applied Energy, 2019, 243, 21-34.	10.1	44
6	Optimization of a Dual-Motor Coupled Powertrain Energy Management Strategy for a Battery Electric Bus Based on Dynamic Programming Method. IEEE Access, 2018, 6, 32899-32909.	4.2	35
7	A Multi-Objective Optimal Torque Distribution Strategy for Four In-Wheel-Motor Drive Electric Vehicles. IEEE Access, 2019, 7, 64627-64640.	4.2	35
8	Coaxial-coupling traction control for a four-wheel-independent-drive electric vehicle on a complex road. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2014, 228, 1398-1414.	1.9	26
9	Optimal energy management strategy of a novel hybrid dual-motor transmission system for electric vehicles. Applied Energy, 2022, 321, 119395.	10.1	25
10	Investigation of Internal Short Circuits of Lithium-Ion Batteries under Mechanical Abusive Conditions. Energies, 2019, 12, 1885.	3.1	24
11	Heating Lithium-Ion Batteries at Low Temperatures for Onboard Applications: Recent Progress, Challenges and Prospects. Automotive Innovation, 2022, 5, 3-17.	5.1	22
12	Speed Synchronization Control for Integrated Automotive Motor-Transmission Powertrains Over CAN Through a Co-Design Methodology. IEEE Access, 2018, 6, 14106-14117.	4.2	21
13	Multidisciplinary design optimization for front structure of an electric car body-in-white based on improved Collaborative Optimization method. International Journal of Automotive Technology, 2017, 18, 1007-1015.	1.4	20
14	An intelligent sampling approach for metamodel-based multi-objective optimization with guidance of the adaptive weighted-sum method. Structural and Multidisciplinary Optimization, 2018, 57, 1047-1060.	3.5	20
15	Application-Oriented Optimal Shift Schedule Extraction for a Dual-Motor Electric Bus with Automated Manual Transmission. Energies, 2018, 11, 325.	3.1	20
16	Research on Startup Process for Sensorless Control of PMSMs Based on I-F Method Combined With an Adaptive Compensator. IEEE Access, 2020, 8, 70812-70821.	4.2	20
17	Co-Design Based Lateral Motion Control of All-Wheel-Independent-Drive Electric Vehicles with Network Congestion. Energies, 2017, 10, 1641.	3.1	14
18	A Parameter-Independent Optimal Field-Weakening Control Strategy of IPMSM for Electric Vehicles Over Full Speed Range. IEEE Transactions on Power Electronics, 2021, 36, 4659-4671.	7.9	13

#	Article	IF	Citations
19	A novel method for identifying inertial parameters of electric vehicles based on the dual H infinity filter. Vehicle System Dynamics, 2020, 58, 28-48.	3.7	12
20	Sulfonated poly(arylene ether sulfone)s membranes with distinct microphase-separated morphology for PEMFCs. International Journal of Hydrogen Energy, 2021, 46, 33978-33990.	7.1	12
21	A Traction Control Strategy with an Efficiency Model in a Distributed Driving Electric Vehicle. Scientific World Journal, The, 2014, 2014, 1-12.	2.1	11
22	A novel real-time energy management strategy based on Monte Carlo Tree Search for coupled powertrain platform via vehicle-to-cloud connectivity. Energy, 2022, 256, 124619.	8.8	11
23	Research on thermo-physical properties identification and thermal analysis of EV Li-ion battery. , 2009, , .		10
24	Speed Synchronization Control of Integrated Motorâ€“Transmission Powertrain over CAN through Active Period-Scheduling Approach. Energies, 2017, 10, 1831.	3.1	10
25	Stochastic Model Predictive Control for Dual-Motor Battery Electric Bus Based on Signed Markov Chain Monte Carlo Method. IEEE Access, 2020, 8, 120785-120797.	4.2	10
26	Electrochemical and Mechanical Failure of Graphite-Based Anode Materials in Li-Ion Batteries for Electric Vehicles. Journal of Chemistry, 2016, 2016, 1-7.	1.9	9
27	Multiobjective reliability-based design optimisation for front structure of an electric vehicle using hybrid metamodel accuracy improvement strategy-based probabilistic sufficiency factor method. International Journal of Crashworthiness, 2018, 23, 290-301.	1.9	9
28	Accelerated Adaptive Second Order Super-Twisting Sliding Mode Observer. IEEE Access, 2019, 7, 25232-25238.	4.2	9
29	A New Data-Stream-Mining-Based Battery Equalization Method. Energies, 2015, 8, 6543-6565.	3.1	8
30	Optimization of a dual-motor coupled powertrain energy management strategy for a battery electric bus. Energy Procedia, 2018, 145, 20-25.	1.8	8
31	Optimization of Control Strategy for Plug-in Hybrid Electric Vehicle Based on Differential Evolution Algorithm. , 2009, , .		7
32	Intelligent estimation for electric vehicle mass with unknown uncertainties based on particle filter. IET Intelligent Transport Systems, 2020, 14, 463-467.	3.0	7
33	Collaborative Control of Novel Uninterrupted Propulsion System for All-Climate Electric Vehicles. Automotive Innovation, 2022, 5, 18-28.	5.1	7
34	A novel approach to state of charge estimation using extended Kalman filtering for lithium-ion batteries in electric vehicles. , 2014, , .		6
35	A Yaw Stability Control Algorithm for Four-Wheel Independently Actuated Electric Ground Vehicles considering Control Boundaries. Mathematical Problems in Engineering, 2015, 2015, 1-10.	1.1	6
36	Safety modeling and protection for lithium-ion batteries based on artificial neural networks method under mechanical abuse. Science China Technological Sciences, 2021, 64, 2373-2388.	4.0	6

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37	Hardware-in-the-loop simulation and its application in electric vehicle development. , 2008, , .		5
38	Accelerated adaptive super twisting sliding mode observerâ€based drive shaft torque estimation for electric vehicle with automated manual transmission. IET Intelligent Transport Systems, 2019, 13, 160-167.	3.0	5
39	Fuzzy sliding mode control of networked control systems and applications to independent-drive electric vehicles. , 2017, , .		4
40	Metamodel-Based Multi-Objective Reliable Optimization for Front Structure of Electric Vehicle. Automotive Innovation, 2018, 1, 131-139.	5.1	4
41	The research of traction control for the distributed driven electric vehicle. , 2014, , .		3
42	Dead-Time Correction Applied for Extended Flux-Based Sensorless Control of Assisted PMSMs in Electric Vehicles. Electronics (Switzerland), 2021, 10, 220.	3.1	3
43	Gearshift Control in Engagement Process of Dual-Motor Coaxial Propulsion System for Electric Bus. IEEE Access, 2022, 10, 43351-43366.	4.2	3
44	Coordinated yaw stability control for extreme path tracking of 4WIDEVs based on predictive control. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2023, 237, 1929-1946.	1.9	3
45	A Real-Time Planning-Based Scheduling Policy with CAN for Automotive Communication Systems. , 2009, , .		2
46	Mechanism and Design of EV Changing Modes Propulsion System. , 2009, , .		2
47	A DCT-Based Driving Cycle Generation Method and Its Application for Electric Vehicles. Mathematical Problems in Engineering, 2015, 2015, 1-13.	1.1	2
48	Speed synchronization control of electric vehicle's IMT powertrain systems over CAN with bandwidth constraint. , 2017, , .		2
49	Model-Based Sensor Fault Detection for Lithium-Ion Batteries in Electric Vehicles. , 2019, , .		2
50	A STUDY ON ENERGY MANAGEMENT CONTROL STRATEGY FOR AN EXTENDED-RANGE ELECTRIC VEHICLE. , 2016, , .		2
51	Hierarchical Model Predictive Control for Autonomous Collision Avoidance of Distributed Electric Drive Vehicle with Lateral Stability Analysis in Extreme Scenarios. World Electric Vehicle Journal, 2021, 12, 192.	3.0	2
52	Calculation and Spectral Analysis of DC-Link Current for three phase PWM inverter. , 2021, , .		2
53	Nonlinear Flux Observer Based on Extended Flux Model for Sensorless Control of IPMSM in Electric Vehicles. , 2021, , .		2
54	I-f Starting Rapid and Smooth Transition Method of Full-Speed Sensorless Control for Low Current Harmonic Ultra-high-speed PMSM. , 2022, , .		2

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55	The Integrated Analysis on 6-DOF Electrohydraulic Servo-Control Parallel Platform. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2005, 48, 234-239.	0.3	1
56	A new method based on MTL and LS-SVM for crosstalk predicting in electric vehicle. , 2010, , .		1
57	Electric power steering system matching and hardware-in-the-loop simulation of economical cars. , 2011, , .		1
58	A sliding mode control strategy for a distributed driving electric vehicle. , 2014, , .		1
59	Failure Analysis of Electrochemical-Mechanical Interactions Within Nanowire Electrode Materials of Lithium-Ion Batteries. Journal of Nanoscience and Nanotechnology, 2018, 18, 7889-7895.	0.9	1
60	Cutting-Edge Technologies on Automotive and Mobility Applied in Beijing 2022 Winter Olympics. Automotive Innovation, 2022, 5, 1.	5.1	1
61	Analysis of High-Frequency Common Mode Component Characteristics of Common Mode Peak Voltage Suppression Method for Indirect Matrix Converter. Energies, 2022, 15, 3991.	3.1	0