

# Zheng Zhang

## List of Publications by Year in Descending Order

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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.

65  
papers

2,342  
citations

18  
h-index

48  
g-index

92  
ext. papers

3,334  
ext. citations

4.2  
avg, IF

5.82  
L-index

#	Paper	IF	Citations
65	Multi-Stage State of Health Estimation of Lithium-ion Battery with High Tolerance to Heavily-Partial Charging. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 1-1	7.2	8
64	Adaptive Sliding Mode Control Integrating with RBFNN for Proton Exchange Membrane Fuel Cell Power Conditioning. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 3132	2.6	1
63	Path Planning and Following Control of autonomous bus under Time-Varying Parameters against Parametric Uncertainties and External Disturbances. <i>IEEE Transactions on Vehicular Technology</i> , <b>2022</b> , 1-1	6.8	0
62	Residual Statistics-Based Current Sensor Fault Diagnosis for Smart Battery Management. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 1-1	5.6	2
61	A Novel Hierarchical Predictive Energy Management Strategy for Plug-in Hybrid Electric Bus Combined with Deep Reinforcement Learning <b>2021</b> ,		1
60	Continuous Reinforcement Learning Based Energy Management Strategy for Hybrid Electric Tracked Vehicles. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 1-1	5.6	2
59	Powertrain parameters optimization for a series-parallel plug-in hybrid electric bus by using a combinatorial optimization algorithm. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 1-1	5.6	
58	Online Active Set-Based Longitudinal and Lateral Model Predictive Tracking Control of Electric Autonomous Driving. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 9259	2.6	0
57	Analysis and Design of Drivetrain Control for the AEV With Network-Induced Compounding-Construction Loop Delays. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 5578-5591	6.8	2
56	Noise-Immune Model Identification and State-of-Charge Estimation for Lithium-Ion Battery Using Bilinear Parameterization. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 312-323	8.9	73
55	State of Health Estimation of Lithium-ion Battery Based on Constant-Voltage Charging Reconstruction. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 1-1	5.6	17
54	Disturbance-Immune and Aging-Robust Internal Short Circuit Diagnostic for Lithium-Ion Battery. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	29
53	City busesFuture velocity prediction for multiple driving cycle: A meta supervised learning solution. <i>IET Intelligent Transport Systems</i> , <b>2021</b> , 15, 359-370	2.4	2
52	Battery Optimal Sizing under a Synergistic Framework with DQN Based Power Managements for the Fuel Cell Hybrid Powertrain. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 1-1	7.6	10
51	Adaptive MPC Based Real-Time Energy Management Strategy of the Electric Sanitation Vehicles. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 498	2.6	
50	An Improved Energy Management Strategy for Hybrid Electric Vehicles Integrating Multistates of Vehicle-Traffic Information. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 7, 1161-1172	7.6	5
49	Load Current and State-of-Charge Coestimation for Current Sensor-Free Lithium-Ion Battery. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 10970-10975	7.2	33

48	An Online Adaptive Internal Short Circuit Detection Method of Lithium-Ion Battery. <i>Automotive Innovation</i> , <b>2021</b> , 4, 93-102	1.7	4
47	A Real-time Predictive Energy Management Strategy for Power-split Plug-in Hybrid Electric Bus <b>2021</b> ,		1
46	Adaptive Potential Field-Based Path Planning for Complex Autonomous Driving Scenarios. <i>IEEE Access</i> , <b>2020</b> , 8, 225294-225305	3.5	13
45	Active Thermal Management for an Automotive Water-Cooled Proton Exchange Membrane Fuel Cell by Using Feedback Control <b>2020</b> ,		1
44	Optimal Design of a Hybrid Energy Storage System in a Plug-In Hybrid Electric Vehicle for Battery Lifetime Improvement. <i>IEEE Access</i> , <b>2020</b> , 8, 142148-142158	3.5	18
43	Regenerative Fuel Cell-Battery-Supercapacitor Hybrid Power System Modeling and Improved Rule-Based Energy Management for Vehicle Application. <i>Journal of Energy Engineering - ASCE</i> , <b>2020</b> , 146, 04020060	1.7	5
42	Hybrid Path Planning Combining Potential Field with Sigmoid Curve for Autonomous Driving. <i>Sensors</i> , <b>2020</b> , 20,	3.8	10
41	Research on the Energy-Saving Strategy of Path Planning for Electric Vehicles Considering Traffic Information. <i>Energies</i> , <b>2019</b> , 12, 3601	3.1	1
40	Online estimation for parameters and state-of-charge of LiMn2O2 batteries with a modified adaptive Kalman filter. <i>Energy Procedia</i> , <b>2019</b> , 159, 497-502	2.3	2
39	Vehicle Velocity Estimation Fusion with Kinematic Integral and Empirical Correction on Multi-Timescales. <i>Energies</i> , <b>2019</b> , 12, 1242	3.1	4
38	ARIMA-Based Road Gradient and Vehicle Velocity Prediction for Hybrid Electric Vehicle Energy Management. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 5309-5320	6.8	52
37	Lithium-Ion Battery Health Prognosis Based on a Real Battery Management System Used in Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 4110-4121	6.8	141
36	An Improved SOC Estimator Using Time-Varying Discrete Sliding Mode Observer. <i>IEEE Access</i> , <b>2019</b> , 7, 115463-115472	3.5	7
35	A Hierarchical Predictive Strategy-Based Hydrogen Stoichiometry Control for Automotive Fuel Cell Power System <b>2019</b> ,		3
34	Optimal design of adaptive shaking vibration control for electric vehicles. <i>Vehicle System Dynamics</i> , <b>2019</b> , 57, 134-159	2.8	7
33	Lithium-Ion Battery Remaining Useful Life Prediction With Box-Cox Transformation and Monte Carlo Simulation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 1585-1597	8.9	103
32	Long Short-Term Memory Recurrent Neural Network for Remaining Useful Life Prediction of Lithium-Ion Batteries. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 5695-5705	6.8	366
31	Critical Review on the Battery State of Charge Estimation Methods for Electric Vehicles. <i>IEEE Access</i> , <b>2018</b> , 6, 1832-1843	3.5	323

30	Stochastic Model Predictive Control of Air Conditioning System for Electric Vehicles: Sensitivity Study, Comparison, and Improvement. <i>IEEE Transactions on Industrial Informatics</i> , <b>2018</b> , 14, 4179-4189	11.9	13
29	Integrated chassis control for a three-axle electric bus with distributed driving motors and active rear steering system. <i>Vehicle System Dynamics</i> , <b>2017</b> , 55, 601-625	2.8	29
28	A novel method on estimating the degradation and state of charge of lithium-ion batteries used for electrical vehicles. <i>Applied Energy</i> , <b>2017</b> , 207, 336-345	10.7	57
27	A neural network-based method with data preprocess for fault diagnosis of drive system in battery electric vehicles <b>2017</b> ,		1
26	Field Synergy Analysis and Optimization of the Thermal Behavior of Lithium Ion Battery Packs. <i>Energies</i> , <b>2017</b> , 10, 81	3.1	9
25	Freeway Driving Cycle Construction Based on Real-Time Traffic Information and Global Optimal Energy Management for Plug-In Hybrid Electric Vehicles. <i>Energies</i> , <b>2017</b> , 10, 1796	3.1	14
24	An integrated control strategy for the composite braking system of an electric vehicle with independently driven axles. <i>Vehicle System Dynamics</i> , <b>2016</b> , 54, 1031-1052	2.8	13
23	Structural analysis based sensors fault detection and isolation of cylindrical lithium-ion batteries in automotive applications. <i>Control Engineering Practice</i> , <b>2016</b> , 52, 46-58	3.9	33
22	Electrochemical-thermal modeling for a ternary lithium ion battery during discharging and driving cycle testing. <i>RSC Advances</i> , <b>2015</b> , 5, 57599-57607	3.7	19
21	Application Study on the Dynamic Programming Algorithm for Energy Management of Plug-in Hybrid Electric Vehicles. <i>Energies</i> , <b>2015</b> , 8, 3225-3244	3.1	93
20	Polymer separator and low fuel concentration to minimize crossover in microfluidic direct methanol fuel cells. <i>International Journal of Energy Research</i> , <b>2015</b> , 39, 643-647	4.5	10
19	Structural Analysis Based Fault Detection and Isolation Applied for A Lithium-Ion Battery Pack. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 1465-1470	0.7	13
18	Microfluidic direct methanol fuel cell by electrophoretic deposition of platinum/carbon nanotubes on electrode surface. <i>International Journal of Energy Research</i> , <b>2015</b> , 39, 1430-1436	4.5	12
17	A Rule-Based Energy Management Strategy for a Plug-in Hybrid School Bus Based on a Controller Area Network Bus. <i>Energies</i> , <b>2015</b> , 8, 5122-5142	3.1	40
16	A Real-Time Joint Estimator for Model Parameters and State of Charge of Lithium-Ion Batteries in Electric Vehicles. <i>Energies</i> , <b>2015</b> , 8, 8594-8612	3.1	16
15	Hierarchical Control Strategy for the Cooperative Braking System of Electric Vehicle. <i>Scientific World Journal, The</i> , <b>2015</b> , 2015, 584075	2.2	1
14	Research on an Online Identification Algorithm for a Thevenin Battery Model by an Experimental Approach. <i>International Journal of Green Energy</i> , <b>2015</b> , 12, 272-278	3	26
13	Rapid, simple and low cost fabrication of a microfluidic direct methanol fuel cell based on polydimethylsiloxane. <i>Microsystem Technologies</i> , <b>2014</b> , 20, 493-498	1.7	7

12	A Predictive Distribution Model for Cooperative Braking System of an Electric Vehicle. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-11	1.1	8
11	Control research for hybrid compound braking based on an uncertainty predictive model <b>2014</b> ,		1
10	Evaluation on State of Charge Estimation of Batteries With Adaptive Extended Kalman Filter by Experiment Approach. <i>IEEE Transactions on Vehicular Technology</i> , <b>2013</b> , 62, 108-117	6.8	227
9	Simulation Research on an Electric Vehicle Chassis System Based on a Collaborative Control System. <i>Energies</i> , <b>2013</b> , 6, 312-328	3.1	17
8	Global Optimal Energy Management Strategy Research for a Plug-In Series-Parallel Hybrid Electric Bus by Using Dynamic Programming. <i>Mathematical Problems in Engineering</i> , <b>2013</b> , 2013, 1-11	1.1	19
7	Study on Control Strategy and Simulation for Parallel Hybrid Electric Vehicle <b>2012</b> ,		1
6	State-of-Charge Estimation of the Lithium-Ion Battery Using an Adaptive Extended Kalman Filter Based on an Improved Thevenin Model. <i>IEEE Transactions on Vehicular Technology</i> , <b>2011</b> , 60, 1461-1469	6.8	393
5	Study on Fuzzy Logic Control Strategy of ISG hybrid system <b>2010</b> ,		2
4	Research of fuzzy logic control strategy for engine start/stop in dual-clutch hybrid electric vehicle <b>2010</b> ,		3
3	Integrated control method for a fuel cell hybrid system. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2009</b> , 4, 68-72	1.3	11
2	Control strategy optimization for hybrid electric vehicle based on DIRECT algorithm <b>2008</b> ,		1
1	Hierarchical Sizing and Power Distribution Strategy for Hybrid Energy Storage System. <i>Automotive Innovation</i> , 1	1.7	3