

Yujie Wang

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

5,801
citations

57758

44
h-index

118850

62
g-index

67
all docs

67
docs citations

67
times ranked

2739
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive review of battery modeling and state estimation approaches for advanced battery management systems. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 131, 110015.	16.4	631
2	A novel Gaussian process regression model for state-of-health estimation of lithium-ion battery using charging curve. <i>Journal of Power Sources</i> , 2018, 384, 387-395.	7.8	475
3	A method for state-of-charge estimation of LiFePO ₄ batteries at dynamic currents and temperatures using particle filter. <i>Journal of Power Sources</i> , 2015, 279, 306-311.	7.8	194
4	A novel state of health estimation method of Li-ion battery using group method of data handling. <i>Journal of Power Sources</i> , 2016, 327, 457-464.	7.8	186
5	A method for joint estimation of state-of-charge and available energy of LiFePO ₄ batteries. <i>Applied Energy</i> , 2014, 135, 81-87.	10.1	176
6	Energy management strategy for battery/supercapacitor/fuel cell hybrid source vehicles based on finite state machine. <i>Applied Energy</i> , 2019, 254, 113707.	10.1	164
7	State-of-health estimation for the lithium-ion battery based on support vector regression. <i>Applied Energy</i> , 2018, 227, 273-283.	10.1	157
8	Modeling and state-of-charge prediction of lithium-ion battery and ultracapacitor hybrids with a co-estimator. <i>Energy</i> , 2017, 121, 739-750.	8.8	156
9	A novel framework for Lithium-ion battery modeling considering uncertainties of temperature and aging. <i>Energy Conversion and Management</i> , 2019, 180, 162-170.	9.2	145
10	A review of key issues for control and management in battery and ultra-capacitor hybrid energy storage systems. <i>ETransportation</i> , 2020, 4, 100064.	14.8	134
11	A framework for state-of-charge and remaining discharge time prediction using unscented particle filter. <i>Applied Energy</i> , 2020, 260, 114324.	10.1	132
12	Adaptive energy management strategy for fuel cell/battery hybrid vehicles using Pontryagin's Minimal Principle. <i>Journal of Power Sources</i> , 2019, 440, 227105.	7.8	123
13	A novel active equalization method for lithium-ion batteries in electric vehicles. <i>Applied Energy</i> , 2015, 145, 36-42.	10.1	122
14	Degradation model and cycle life prediction for lithium-ion battery used in hybrid energy storage system. <i>Energy</i> , 2019, 166, 796-806.	8.8	121
15	A method for state-of-charge estimation of LiFePO ₄ batteries based on a dual-circuit state observer. <i>Journal of Power Sources</i> , 2015, 296, 23-29.	7.8	118
16	Development of energy management system based on a rule-based power distribution strategy for hybrid power sources. <i>Energy</i> , 2019, 175, 1055-1066.	8.8	118
17	A fractional-order model-based state estimation approach for lithium-ion battery and ultra-capacitor hybrid power source system considering load trajectory. <i>Journal of Power Sources</i> , 2020, 449, 227543.	7.8	111
18	A Neural Network Based State-of-Health Estimation of Lithium-ion Battery in Electric Vehicles. <i>Energy Procedia</i> , 2017, 105, 2059-2064.	1.8	109

#	ARTICLE	IF	CITATIONS
19	Probability based remaining capacity estimation using data-driven and neural network model. Journal of Power Sources, 2016, 315, 199-208.	7.8	101
20	Low temperature preheating techniques for Lithium-ion batteries: Recent advances and future challenges. Applied Energy, 2022, 313, 118832.	10.1	100
21	An on-line estimation of battery pack parameters and state-of-charge using dual filters based on pack model. Energy, 2016, 115, 219-229.	8.8	99
22	A novel approach of battery pack state of health estimation using artificial intelligence optimization algorithm. Journal of Power Sources, 2018, 376, 191-199.	7.8	98
23	An adaptive remaining energy prediction approach for lithium-ion batteries in electric vehicles. Journal of Power Sources, 2016, 305, 80-88.	7.8	97
24	A novel method for lithium-ion battery state of energy and state of power estimation based on multi-time-scale filter. Applied Energy, 2018, 216, 442-451.	10.1	95
25	A method for state-of-charge estimation of Li-ion batteries based on multi-model switching strategy. Applied Energy, 2015, 137, 427-434.	10.1	92
26	Digital twin and cloud-side-end collaboration for intelligent battery management system. Journal of Manufacturing Systems, 2022, 62, 124-134.	13.9	87
27	Capacity attenuation mechanism modeling and health assessment of lithium-ion batteries. Energy, 2021, 221, 119682.	8.8	84
28	Experimental study of fractional-order models for lithium-ion battery and ultra-capacitor: Modeling, system identification, and validation. Applied Energy, 2020, 278, 115736.	10.1	83
29	Load-adaptive real-time energy management strategy for battery/ultracapacitor hybrid energy storage system using dynamic programming optimization. Journal of Power Sources, 2019, 438, 227024.	7.8	82
30	Multi-timescale power and energy assessment of lithium-ion battery and supercapacitor hybrid system using extended Kalman filter. Journal of Power Sources, 2018, 389, 93-105.	7.8	79
31	Model based insulation fault diagnosis for lithium-ion battery pack in electric vehicles. Measurement: Journal of the International Measurement Confederation, 2019, 131, 443-451.	5.0	77
32	On-line battery state-of-charge estimation based on an integrated estimator. Applied Energy, 2017, 185, 2026-2032.	10.1	75
33	Power capability evaluation for lithium iron phosphate batteries based on multi-parameter constraints estimation. Journal of Power Sources, 2018, 374, 12-23.	7.8	68
34	Min-max game based energy management strategy for fuel cell/supercapacitor hybrid electric vehicles. Applied Energy, 2020, 267, 115086.	10.1	67
35	On-line remaining energy prediction: A case study in embedded battery management system. Applied Energy, 2017, 194, 688-695.	10.1	62
36	Run-to-Run Control for Active Balancing of Lithium Iron Phosphate Battery Packs. IEEE Transactions on Power Electronics, 2020, 35, 1499-1512.	7.9	61

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37	Sizing Optimization and Energy Management Strategy for Hybrid Energy Storage System Using Multiobjective Optimization and Random Forests. IEEE Transactions on Power Electronics, 2021, 36, 11421-11430.	7.9	61
38	Model migration based battery power capability evaluation considering uncertainties of temperature and aging. Journal of Power Sources, 2019, 440, 227141.	7.8	60
39	Dynamic Bayesian Network-Based Lithium-Ion Battery Health Prognosis for Electric Vehicles. IEEE Transactions on Industrial Electronics, 2021, 68, 10949-10958.	7.9	59
40	Consistency evaluation and cluster analysis for lithium-ion battery pack in electric vehicles. Energy, 2020, 194, 116944.	8.8	58
41	A comparative study of power allocation strategies used in fuel cell and ultracapacitor hybrid systems. Energy, 2019, 189, 116142.	8.8	57
42	Performance degradation prediction of proton exchange membrane fuel cell using a hybrid prognostic approach. International Journal of Hydrogen Energy, 2020, 45, 30994-31008.	7.1	53
43	A Power Distribution Strategy for Hybrid Energy Storage System Using Adaptive Model Predictive Control. IEEE Transactions on Power Electronics, 2020, 35, 5897-5906.	7.9	52
44	A novel approach of remaining discharge energy prediction for large format lithium-ion battery pack. Journal of Power Sources, 2017, 343, 216-225.	7.8	50
45	Remaining Useful Life Prediction of Lithium-ion Battery Based on Discrete Wavelet Transform. Energy Procedia, 2017, 105, 2053-2058.	1.8	38
46	Rule-based energy management strategy of a lithium-ion battery, supercapacitor and PEM fuel cell system. Energy Procedia, 2019, 158, 2555-2560.	1.8	35
47	Robust fault diagnosis and fault tolerant control for PEMFC system based on an augmented LPV observer. International Journal of Hydrogen Energy, 2020, 45, 13508-13522.	7.1	35
48	An improved single particle model for lithium-ion batteries based on main stress factor compensation. Journal of Cleaner Production, 2021, 278, 123456.	9.3	35
49	A variable capacitance based modeling and power capability predicting method for ultracapacitor. Journal of Power Sources, 2018, 374, 121-133.	7.8	34
50	Power capability prediction for lithium-ion batteries based on multiple constraints analysis. Electrochimica Acta, 2017, 238, 120-133.	5.2	31
51	Multiple-grained velocity prediction and energy management strategy for hybrid propulsion systems. Journal of Energy Storage, 2019, 26, 100950.	8.1	30
52	Sensor fault diagnosis for lithium-ion battery packs based on thermal and electrical models. International Journal of Electrical Power and Energy Systems, 2020, 121, 106087.	5.5	30
53	Experimental data of lithium-ion battery and ultracapacitor under DST and UDDS profiles at room temperature. Data in Brief, 2017, 12, 161-163.	1.0	28
54	Health degradation assessment of proton exchange membrane fuel cell based on an analytical equivalent circuit model. Energy, 2020, 207, 118185.	8.8	28

#	ARTICLE	IF	CITATIONS
55	Optimization of battery charging strategy based on nonlinear model predictive control. Energy, 2022, 241, 122877.	8.8	27
56	Model-based State-of-energy Estimation of Lithium-ion Batteries in Electric Vehicles. Energy Procedia, 2016, 88, 998-1004.	1.8	26
57	Reconstruction of the incremental capacity trajectories from current-varying profiles for lithium-ion batteries. IScience, 2021, 24, 103103.	4.1	26
58	A real-time insulation detection method for battery packs used in electric vehicles. Journal of Power Sources, 2018, 385, 1-9.	7.8	22
59	Parameter identification of reduced-order electrochemical model simplified by spectral methods and state estimation based on square-root cubature Kalman filter. Journal of Energy Storage, 2022, 46, 103828.	8.1	21
60	State-of-charge Estimation of Lithium-ion Batteries Based on Multiple Filters Method. Energy Procedia, 2015, 75, 2635-2640.	1.8	15
61	Behavior data of battery and battery pack SOC estimation under different working conditions. Data in Brief, 2016, 9, 737-740.	1.0	5
62	A framework for battery internal temperature and state-of-charge estimation based on fractional-order thermoelectric model. Transactions of the Institute of Measurement and Control, 0, , 014233122110672.	1.7	3
63	Model-based remaining discharge energy estimation of lithium-ion batteries. , 2017, , .		2
64	Multi-timescale Power and Energy Assessment for Lithium-ion Battery and Supercapacitor Hybrid Energy Storage System. , 2018, , .		0