Weixiang Shen

List of Publications by Year
in descending order

167 papers	7,082 citations	57758	64796
		44 h-index	79 g-index

| 173 all docs | 173 docs citations | 173 times ranked | 4437 citing authors |

#	Article	IF	Citations
1	DC-AC hybrid rapid heating method for lithium-ion batteries at high state of charge operated from low temperatures. Energy, 2022, 238, 121809.	8.8	25
2	Current sensor fault diagnosis method based on an improved equivalent circuit battery model. Applied Energy, 2022, 310, 118588.	10.1	52
3	Robust longitudinal motion control of underground mining electric vehicles based on fuzzy parameter tuning sliding mode controller. Computers and Electrical Engineering, 2022, 98, 107683.	4.8	7
4	Enhanced Lithium-ion battery model considering critical surface charge behavior. Applied Energy, 2022, 314, 118915.	10.1	24
5	A Soft Short-Circuit Diagnosis Method for Lithium-Ion Battery Packs in Electric Vehicles. IEEE Transactions on Power Electronics, 2022, 37, 8572-8581.	7.9	19
6	A Review of Equivalent Circuit Model Based Online State of Power Estimation for Lithium-Ion Batteries in Electric Vehicles. Vehicles, 2022, 4, 1-31.	3.1	37
7	Dataâ€driven battery degradation prediction: Forecasting voltageâ€capacity curves using oneâ€cycle data. EcoMat, 2022, 4, .	11.9	14
8	An enhanced multi-constraint state of power estimation algorithm for lithium-ion batteries in electric vehicles. Journal of Energy Storage, 2022, 50, 104628.	8.1	11
9	A data-model fusion method for online state of power estimation of lithium-ion batteries at high discharge rate in electric vehicles. Energy, 2022, 254, 124270.	8.8	18
10	Battery state-of-charge estimation amid dynamic usage with physics-informed deep learning. Energy Storage Materials, 2022, 50, 718-729.	18.0	79
11	Flexible battery state of health and state of charge estimation using partial charging data and deep learning. Energy Storage Materials, 2022, 51, 372-381.	18.0	84
12	Extreme Learning Machine-Based Thermal Model for Lithium-Ion Batteries of Electric Vehicles under External Short Circuit. Engineering, 2021, 7, 395-405.	6.7	82
13	A nonâ€linear adaptive excitation control scheme for feedback linearized synchronous generations in multimachine power systems. IET Generation, Transmission and Distribution, 2021, 15, 1501-1520.	2.5	14
14	Co-Estimation of State of Charge and Capacity for Lithium-Ion Batteries with Multi-Stage Model Fusion Method. Engineering, 2021, 7, 1469-1482.	6.7	61
15	Energy management strategy of connected hybrid electric vehicles considering electricity and oil price fluctuations: A case study of ten typical cities in China. Journal of Energy Storage, 2021, 36, 102347.	8.1	20
16	Electrode ageing estimation and open circuit voltage reconstruction for lithium ion batteries. Energy Storage Materials, 2021, 37, 283-295.	18.0	124
17	State-of-charge estimation of LiFePO4 batteries in electric vehicles: A deep-learning enabled approach. Applied Energy, 2021, 291, 116812.	10.1	151
18	Deep neural network battery charging curve prediction using 30 points collected in 10Âmin. Joule, 2021, 5, 1521-1534.	24.0	152

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19	Impact of demand side management on optimal sizing of residential battery energy storage system. Renewable Energy, 2021, 172, 1250-1266.	8.9	47
20	Electro-thermal coupling model of lithium-ion batteries under external short circuit. Applied Energy, 2021, 293, 116910.	10.1	28
21	A joint grey relational analysis based state of health estimation for lithium ion batteries considering temperature effects. Journal of Energy Storage, 2021, 42, 103102.	8.1	13
22	Deep neural network battery impedance spectra prediction by only using constant-current curve. Energy Storage Materials, 2021, 41, 24-31.	18.0	44
23	Impact of demand side management on Peer-to-Peer energy trading in a DC microgrid. , 2021, , .		1
24	Feasibility Study of Integrating Photovoltaic Generation Power Plant into a Distribution Network in Pakistan. , 2021, , .		0
25	Online Fault Diagnosis of External Short Circuit for Lithium-Ion Battery Pack. IEEE Transactions on Industrial Electronics, 2020, 67, 1081-1091.	7.9	125
26	A Nine-Level Inverter for Low-Voltage Applications. IEEE Transactions on Power Electronics, 2020, 35, 1659-1671.	7.9	32
27	Online simultaneous identification of parameters and order of a fractional order battery model. Journal of Cleaner Production, 2020, 247, 119147.	9.3	47
28	An Adaptive Partial Feedback Linearizing Control Scheme: An Application to a Single Machine Infinite Bus System. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2557-2561.	3.0	17
29	Optimally sizing of battery energy storage capacity by operational optimization of residential PV-Battery systems: An Australian household case study. Renewable Energy, 2020, 160, 852-864.	8.9	95
30	Lithium-ion battery aging mechanisms and diagnosis method for automotive applications: Recent advances and perspectives. Renewable and Sustainable Energy Reviews, 2020, 131, 110048.	16.4	312
31	Model predictive control based real-time energy management for a hybrid energy storage system. CSEE Journal of Power and Energy Systems, 2020, , .	1.1	14
32	Fractional order battery modelling methodologies for electric vehicle applications: Recent advances and perspectives. Science China Technological Sciences, 2020, 63, 2211-2230.	4.0	31
33	IEEE Access Special Section Editorial: Advanced Energy Storage Technologies and Their Applications. IEEE Access, 2020, 8, 218685-218693.	4.2	7
34	Experimental Study on External Short Circuit and Overcharge of Lithium-ion Battery Packs for Electric Vehicles. , 2020, , .		3
35	State-of-Health Estimation Based on Differential Temperature for Lithium Ion Batteries. IEEE Transactions on Power Electronics, 2020, 35, 10363-10373.	7.9	156
36	Investigation of mechanical property of cylindrical lithium-ion batteries under dynamic loadings. Journal of Power Sources, 2020, 451, 227749.	7.8	27

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37	Multiobjective Particle Swarm Optimization for Microgrids Pareto Optimization Dispatch. Mathematical Problems in Engineering, 2020, 2020, 1-13.	1.1	10
38	A Comparative Study of Fractional Order Models on State of Charge Estimation for Lithium Ion Batteries. Chinese Journal of Mechanical Engineering (English Edition), 2020, 33, .	3.7	24
39	Joint Grey Correlation Degree based Incremental Capacity Analysis for State-of-Health Estimation of Lithium Ion Battery. , 2020, , .		0
40	On-board soft short circuit fault diagnosis of lithium-ion battery packs for electric vehicles using extended Kalman filter. CSEE Journal of Power and Energy Systems, 2020, , .	1.1	14
41	Advances in Rechargeable Lithium Ion Batteries and their Systems for Electric and Hybrid Electric Vehicles. , 2020, , 99-126.		0
42	Aging investigation of an echelon internal heating method on a three-electrode lithium ion cell at low temperatures. Journal of Energy Storage, 2019, 25, 100878.	8.1	27
43	State-of-charge estimation of lithium-ion battery using an improved neural network model and extended Kalman filter. Journal of Cleaner Production, 2019, 234, 1153-1164.	9.3	157
44	Improved constitutive model of the jellyroll for cylindrical lithium ion batteries considering microscopic damage. Energy, 2019, 185, 202-212.	8.8	20
45	A novel approach to reconstruct open circuit voltage for state of charge estimation of lithium ion batteries in electric vehicles. Applied Energy, 2019, 255, 113758.	10.1	99
46	Research on High Frequency Voltage Injection Method for PMSM. , 2019, , .		3
47	Optimization of Model Prediction Control for Permanent Magnet Synchronous Motor. , 2019, , .		0
48	A distributed charging strategy based on day ahead price model for PV-powered electric vehicle charging station. Applied Soft Computing Journal, 2019, 76, 638-648.	7.2	29
49	Investigation of Internal Short Circuits of Lithium-Ion Batteries under Mechanical Abusive Conditions. Energies, 2019, 12, 1885.	3.1	24
50	Towards a smarter battery management system: A critical review on optimal charging methods of lithium ion batteries. Energy, 2019, 183, 220-234.	8.8	141
51	Hierarchical Optimization Method for Energy Scheduling of Multiple Microgrids. Applied Sciences (Switzerland), 2019, 9, 624.	2.5	12
52	Frequency and time domain modelling and online state of charge monitoring for ultracapacitors. Energy, 2019, 176, 874-887.	8.8	24
53	Battery system selection in DC microgrids for residential applications: an Australian case study. , 2019, , .		1
54	Economical Optimization for Multi-Microgrid Based on Stackelberg Game. , 2019, , .		6

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55	Distributed Peer-to-Peer Electricity Trading Considering Network Loss in a Distribution System. Energies, 2019, 12, 4318.	3.1	12
56	A review on state of health estimation for lithium ion batteries in photovoltaic systems. ETransportation, 2019, 2, 100028.	14.8	95
57	A Novel Fractional Order Model for State of Charge Estimation in Lithium Ion Batteries. IEEE Transactions on Vehicular Technology, 2019, 68, 4130-4139.	6.3	186
58	Comparison of decomposition levels for wavelet transform based energy management in a plug-in hybrid electric vehicle. Journal of Cleaner Production, 2019, 210, 1085-1097.	9.3	37
59	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
60	Energy Market Management for Distribution Network with a Multi-Microgrid System: A Dynamic Game Approach. Applied Sciences (Switzerland), 2019, 9, 5436.	2.5	6
61	A Review of Battery Energy Storage Systems for Residential DC Microgrids and Their Economical Comparisons. DEStech Transactions on Environment Energy and Earth Science, 2019, , .	0.0	6
62	Comparison and Selection of LiFePO4 Battery System in Underground Mine Electric Vehicles. DEStech Transactions on Environment Energy and Earth Science, 2019, , .	0.0	0
63	Distributed Optimization Dispatch Strategy for Multi-agent System Based Isolated Microgrid. DEStech Transactions on Environment Energy and Earth Science, 2019, , .	0.0	0
64	The Energy Management System Based on Model Predictive Control for Microgrid. DEStech Transactions on Environment Energy and Earth Science, 2019, , .	0.0	0
65	Multi-objective Optimization of Distribution Network Based on Model Predictive Control. DEStech Transactions on Environment Energy and Earth Science, 2019, , .	0.0	0
66	A novel thermal management system for improving discharge/charge performance of Li-ion battery packs under abuse. Journal of Power Sources, 2018, 378, 759-775.	7.8	35
67	A Lithium-Ion Battery-in-the-Loop Approach to Test and Validate Multiscale Dual H Infinity Filters for State-of-Charge and Capacity Estimation. IEEE Transactions on Power Electronics, 2018, 33, 332-342.	7.9	207
68	A New Rotor Position Measurement Method for Permanent Magnet Spherical Motors. Applied Sciences (Switzerland), 2018, 8, 2415.	2.5	9
69	Improved active cell balancing approach based on state of charge for lithium iron phosphate batteries. , 2018, , .		0
70	Review on sensors fault diagnosis and fault-tolerant techniques for lithium ion batteries in electric vehicles. , 2018, , .		19
71	Application of Robust Design Methodology to Battery Packs for Electric Vehicles: Identification of Critical Technical Requirements for Modular Architecture. Batteries, 2018, 4, 30.	4.5	30
72	Robust nonlinear adaptive backstepping excitation controller design for rejecting external disturbances in multimachine power systems. International Journal of Electrical Power and Energy Systems, 2017, 84, 76-86.	5.5	40

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73	Nonlinear Controller Design for Series-Compensated DFIG-Based Wind Farms to Mitigate Subsynchronous Control Interaction. IEEE Transactions on Energy Conversion, 2017, 32, 707-719.	5.2	76
74	Neural network based computational model for estimation of heat generation in LiFePO 4 pouch cells of different nominal capacities. Computers and Chemical Engineering, 2017, 101, 81-94.	3.8	44
75	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
76	Critical analysis of open circuit voltage and its effect on estimation of irreversible heat for Li-ion pouch cells. Journal of Power Sources, 2017, 350, 117-126.	7.8	21
77	Nonlinear Adaptive Excitation Controller Design for Multimachine Power Systems With Unknown Stability Sensitive Parameters. IEEE Transactions on Control Systems Technology, 2017, 25, 2060-2072.	5.2	38
78	An Improved Virtual Space Vector Modulation Scheme for Three-Level Active Neutral-Point-Clamped Inverter. IEEE Transactions on Power Electronics, 2017, 32, 7419-7434.	7.9	88
79	Lithium-Ion Battery Pack State of Charge and State of Energy Estimation Algorithms Using a Hardware-in-the-Loop Validation. IEEE Transactions on Power Electronics, 2017, 32, 4421-4431.	7.9	178
80	Novel active LiFePO4 battery balancing method based on chargeable and dischargeable capacity. Computers and Chemical Engineering, 2017, 97, 27-35.	3.8	45
81	Fuzzy logic controller for battery balancing system for lithium-iron phosphate battery pack. , 2017, , .		2
82	Neutral‐point potential balancing control strategy of three‐level active NPC inverter based on SHEPWM. IET Power Electronics, 2017, 10, 1943-1950.	2.1	35
83	Robust direct power control of grid-connected photovoltaic systems based on adaptive partial feedback linearization. , 2017, , .		9
84	State of charge estimation for battery packs using H-infinity observer in underground mine electric vehicles. Australian Journal of Electrical and Electronics Engineering, 2017, 14, 49-58.	1.2	2
85	A Novel Active Online State of Charge Based Balancing Approach for Lithium-Ion Battery Packs during Fast Charging Process in Electric Vehicles. Energies, 2017, 10, 1766.	3.1	19
86	A Fast Multi-Switched Inductor Balancing System Based on a Fuzzy Logic Controller for Lithium-Ion Battery Packs in Electric Vehicles. Energies, 2017, 10, 1034.	3.1	21
87	Sliding mode control of longitudinal motions for underground mining electric vehicles with parametric uncertainties. International Journal of Modelling, Identification and Control, 2016, 26, 68.	0.2	4
88	Non‐linear adaptive coordinated controller design for multimachine power systems to improve transient stability. IET Generation, Transmission and Distribution, 2016, 10, 3353-3363.	2.5	24
89	Efficiency analysis of a bidirectional DC/DC converter in a hybrid energy storage system for plug-in hybrid electric vehicles. Applied Energy, 2016, 183, 612-622.	10.1	61
90	H infinity observer based state of charge estimation for battery packs in electric vehicles. , 2016, , .		5

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91	Robust adaptive backstepping controller design for DC-DC buck converters with external disturbances. , 2016, , .		8
92	Stability enhancement of DFIG wind turbine using LQR pitch control over rated wind speed. , 2016, , .		7
93	Intelligent battery management for electric and hybrid electric vehicles: A survey. , 2016, , .		7
94	Robust Adaptive Sliding-Mode Observer Using RBF Neural Network for Lithium-Ion Battery State of Charge Estimation in Electric Vehicles. IEEE Transactions on Vehicular Technology, 2016, 65, 1936-1947.	6.3	151
95	Review of mechanical design and strategic placement technique of a robust battery pack for electric vehicles. Renewable and Sustainable Energy Reviews, 2016, 60, 1319-1331.	16.4	177
96	A novel multi-model probability battery state of charge estimation approach for electric vehicles using H-infinity algorithm. Applied Energy, 2016, 166, 76-83.	10.1	170
97	A novel efficient numerical method to simulate electrochemical process for a lithium ion battery. Russian Journal of Electrochemistry, 2016, 52, 584-594.	0.9	1
98	Fuzzy parameter tuning sliding mode control for longitudinal motion of underground mining electric vehicles based on a single wheel model. , 2016, , .		1
99	Review of battery charging strategies for electric vehicles. , 2016, , 211-259.		0
100	New on-line approach for lithium iron phosphate battery pack balancing based on state of charge. , 2015, , .		2
101	Self-organising map based classification of LiFePO$_4$ cells for battery pack in EVs. International Journal of Vehicle Design, 2015, 69, 151.	0.3	9
102	Designing a Robust Battery Pack for Electric Vehicles Using a Modified Parameter Diagram. , 2015, , .		3
103	Nonlinear excitation control of synchronous generators based on adaptive backstepping method. , 2015, , .		16
104	Robust adaptive backstepping excitation controller design for simple power system models with external disturbances. , 2015, , .		17
105	A nonlinear adaptive backstepping approach for coordinated excitation and steam-valving control of synchronous generators. , 2015, , .		7
106	Comparison of two battery equivalent circuit models for state of charge estimation in electric vehicles. , 2015, , .		7
107	Fuzzy Sliding Mode Control for logitudinal motion of underground mining electric vehicles. , 2015, , .		0
108	A review on transient stability of DFIG integrated power system. International Journal of Sustainable Engineering, 2015, 8, 405-416.	3.5	17

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109	Transient stability of power system integrated with doubly fed induction generator wind farms. IET Renewable Power Generation, 2015, 9, 184-194.	3.1	43
110	An improved theoretical electrochemical-thermal modelling of lithium-ion battery packs in electric vehicles. Journal of Power Sources, 2015, 284, 328-338.	7.8	70
111	Nonlinear adaptive excitation controller design for multimachine power systems. , 2015, , .		15
112	Robust active disturbance rejection controller design to improve lowâ€voltage rideâ€through capability of doubly fed induction generator wind farms. IET Renewable Power Generation, 2015, 9, 961-969.	3.1	29
113	New charging strategy for lithium-ion batteries based on the integration of Taguchi method and state of charge estimation. Journal of Power Sources, 2015, 273, 413-422.	7.8	131
114	An improved battery pack equalizer based on a DC/DC converter with fuzzy logic controller. , 2014, , .		1
115	Enhancement of transient stability of DFIG wind turbine using active disturbance rejection controller. , 2014, , .		0
116	Sliding mode control for longitudinal motion of underground mining electric vehicles. , 2014, , .		0
117	Clustering LiFePO4 cells for battery pack based on neural network in EVs. , 2014, , .		1
118	Investigation of critical parameters for stability analysis of wind generation systems with DFIGs. , 2014, , .		1
119	Quantitative assessment and comparison of fault responses for synchronous generator and wind turbine generators based on modified transient energy function. IET Renewable Power Generation, 2014, 8, 474-483.	3.1	22
120	Adaptive gain sliding mode observer for state of charge estimation based on combined battery equivalent circuit model. Computers and Chemical Engineering, 2014, 64, 114-123.	3.8	67
121	Sliding Mode Control for Steer-by-Wire Systems With AC Motors in Road Vehicles. IEEE Transactions on Industrial Electronics, 2014, 61, 1596-1611.	7.9	166
122	A novel approach for state of charge estimation based on adaptive switching gain sliding mode observer in electric vehicles. Journal of Power Sources, 2014, 246, 667-678.	7.8	182
123	Robust sliding mode observer using RBF neural network for lithium-ion battery state of charge estimation in electric vehicles. , 2014, , .		4
124	Robust Control for Steer-by-Wire Systems With Partially Known Dynamics. IEEE Transactions on Industrial Informatics, 2014, 10, 2003-2015.	11.3	75
125	Energy evaluation and smart microgrid for rural Sarawak. , 2014, , .		2
126	Dynamic validated model of a DFIG wind turbine. International Journal of Renewable Energy Technology, 2014, 5, 372.	0.3	2

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127	Impact of DFIG wind turbines on transient stability of power systems — A review. , 2013, , .		1
128	Robust sliding mode control for Steer-by-Wire systems with AC motors in road vehicles. , 2013, , .		4
129	Economical evaluation of large-scale photovoltaic systems using Universal Generating Function techniques. Journal of Modern Power Systems and Clean Energy, 2013, 1, 167-176.	5.4	13
130	Development of Thermal-Electrochemical Model for Lithium Ion 18650 Battery Packs in Electric Vehicles. , 2013, , .		3
131	State of charge estimation based on improved Li-ion battery model using extended Kalman filter. , 2013, , .		4
132	Modelling of electric vehicles for underground mining personnel transport. , 2013, , .		0
133	Adaptive gain sliding mode observer for state of charge estimation based on combined battery equivalent circuit model in electric vehicles. , 2013, , .		8
134	A novel aggregated DFIG wind farm model using mechanical torque compensating factor. Energy Conversion and Management, 2013, 67, 265-274.	9.2	50
135	Comparative study on fault responses of synchronous generators and wind turbine generators using transient stability index based on transient energy function. International Journal of Electrical Power and Energy Systems, 2013, 51, 145-152.	5.5	27
136	The mathematical model of 18650 lithium-ion battery in electric vehicles. , 2013, , .		4
137	Impact of electric vehicles and renewable energy systems on cost and emission of electricity. , 2012, , .		2
138	Terminal sliding mode control for steer-by-wire system in electric vehicles. , 2012, , .		2
139	An overview of lithium-ion batteries for electric vehicles. , 2012, , .		87
140	A comparative study of observer design techniques for state of charge estimation in electric vehicles. , 2012, , .		6
141	Experimental comparison of charging algorithms for a lithium-ion battery. , 2012, , .		8
142	Charging algorithms of lithium-ion batteries: An overview. , 2012, , .		55
143	Smoothing wind power fluctuations by fuzzy logic pitch angle controller. Renewable Energy, 2012, 38, 224-233.	8.9	109
144	Development of a mathematical model for solar module in photovoltaic systems. , 2011, , .		7

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145	Expected energy production evaluation for photovoltaic systems. , 2011, , .		2
146	Investigation of standalone photovoltaic systems. , 2011, , .		3
147	A novel approach of maximizing energy harvesting in photovoltaic systems based on bisection search theorem. , 2010, , .		27
148	Fast finite-time consensus of a class of high-order uncertain nonlinear systems. , 2010, , .		14
149	Optimally sizing of solar array and battery in a standalone photovoltaic system in Malaysia. Renewable Energy, 2009, 34, 348-352.	8.9	145
150	Mathematical model of a solar module for energy yield simulation in photovoltaic systems. , 2009, , .		13
151	Single-Phase Uninterruptible Power Supply Based on Z-Source Inverter. IEEE Transactions on Industrial Electronics, 2008, 55, 2997-3004.	7.9	173
152	A new terminal sliding mode tracking control for a class of nonminimum phase systems with uncertain dynamics. , 2008, , .		7
153	Application of genetic algorithms in the design of a solar array-exclusive standalone photovoltaic system. , 2008, , .		2
154	State of available capacity estimation for lead-acid batteries in electric vehicles using neural network. Energy Conversion and Management, 2007, 48, 433-442.	9.2	70
155	Study on the Control Strategy for Parallel Operation of Inverters Based on Adaptive Droop Method. , 2006, , .		16
156	Development of a LabVIEW-based test facility for standalone PV systems. , 2006, , .		9
157	Design of Single Phase Grid-connected Photovoltaic Power Plant based on String Inverters. , 2006, , .		14
158	A Control Method for PWM AC/DC Converter by Use of Inductor Current Feed Forward and Feedback. , 2006, , .		0
159	Study on a Novel Boost Battery Charger. , 2006, , .		1
160	Estimation of Residual Available Capacity for Lead Acid Batteries in Electric Vehicles. Journal of Asian Electric Vehicles, 2006, 4, 861-867.	0.4	0
161	Neural Network-Based Residual Capacity Indicator for Nickel-Metal Hydride Batteries in Electric Vehicles. IEEE Transactions on Vehicular Technology, 2005, 54, 1705-1712.	6.3	70
162	A study on standalone photovoltaic system with real meteorological data at Malaysia. , 2005, , .		7

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163	A new battery capacity indicator for nickel–metal hydride battery powered electric vehicles using adaptive neuro-fuzzy inference system. Energy Conversion and Management, 2003, 44, 2059-2071.	9.2	32
164	Adaptive neuro-fuzzy modeling of battery residual capacity for electric vehicles. IEEE Transactions on Industrial Electronics, 2002, 49, 677-684.	7.9	99
165	A new battery available capacity indicator for electric vehicles using neural network. Energy Conversion and Management, 2002, 43, 817-826.	9.2	106
166	Estimation of battery available capacity under variable discharge currents. Journal of Power Sources, 2002, 103, 180-187.	7.8	39
167	The available capacity computation model based on artificial neural network for lead–acid batteries in electric vehicles. Journal of Power Sources, 2000, 87, 201-204.	7.8	167