

Cheng Zhang

List of Publications by Year in descending order

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34
papers

2,008
citations

430754

18
h-index

610775

24
g-index

34
all docs

34
docs citations

34
times ranked

1545
citing authors

#	ARTICLE	IF	CITATIONS
1	A brief review on key technologies in the battery management system of electric vehicles. <i>Frontiers of Mechanical Engineering</i> , 2019, 14, 47-64.	2.5	357
2	Online estimation of battery equivalent circuit model parameters and state of charge using decoupled least squares technique. <i>Energy</i> , 2018, 142, 678-688.	4.5	236
3	A review on recent progress, challenges and perspective of battery thermal management system. <i>International Journal of Heat and Mass Transfer</i> , 2021, 167, 120834.	2.5	230
4	Real-time estimation of battery internal temperature based on a simplified thermoelectric model. <i>Journal of Power Sources</i> , 2016, 302, 146-154.	4.0	105
5	Constrained generalized predictive control of battery charging process based on a coupled thermoelectric model. <i>Journal of Power Sources</i> , 2017, 347, 145-158.	4.0	103
6	Sustainable value chain of retired lithium-ion batteries for electric vehicles. <i>Journal of Power Sources</i> , 2020, 478, 228753.	4.0	102
7	State of charge estimation for lithium-ion battery based on an Intelligent Adaptive Extended Kalman Filter with improved noise estimator. <i>Energy</i> , 2021, 214, 119025.	4.5	100
8	Improved Realtime State-of-Charge Estimation of LiFePO ₄ Battery Based on a Novel Thermoelectric Model. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 654-663.	5.2	95
9	Battery modelling methods for electric vehicles - A review. , 2014, , .		86
10	An integrated approach for real-time model-based state-of-charge estimation of lithium-ion batteries. <i>Journal of Power Sources</i> , 2015, 283, 24-36.	4.0	80
11	An advanced Lithium-ion battery optimal charging strategy based on a coupled thermoelectric model. <i>Electrochimica Acta</i> , 2017, 225, 330-344.	2.6	79
12	A comprehensive review on inconsistency and equalization technology of lithium-ion battery for electric vehicles. <i>International Journal of Energy Research</i> , 2020, 44, 11059-11087.	2.2	76
13	Optimal cell tab design and cooling strategy for cylindrical lithium-ion batteries. <i>Journal of Power Sources</i> , 2021, 492, 229594.	4.0	51
14	The development of optimal charging strategies for lithium-ion batteries to prevent the onset of lithium plating at low ambient temperatures. <i>Journal of Energy Storage</i> , 2019, 24, 100798.	3.9	50
15	On-line scheme for parameter estimation of nonlinear lithium ion battery equivalent circuit models using the simplified refined instrumental variable method for a modified Wiener continuous-time model. <i>Applied Energy</i> , 2017, 204, 497-508.	5.1	47
16	A lumped thermal model of lithium-ion battery cells considering radiative heat transfer. <i>Applied Thermal Engineering</i> , 2018, 143, 472-481.	3.0	39
17	State of charge estimation for lithium-ion battery based on an intelligent adaptive unscented Kalman filter. <i>International Journal of Energy Research</i> , 2020, 44, 11199-11218.	2.2	34
18	Finding a better fit for lithium ion batteries: A simple, novel, load dependent, modified equivalent circuit model and parameterization method. <i>Journal of Power Sources</i> , 2021, 484, 229117.	4.0	29

#	ARTICLE	IF	CITATIONS
19	Optimal Scheduling Methods to Integrate Plug-in Electric Vehicles with the Power System: A Review. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 8594-8603.	0.4	19
20	The prismatic surface cell cooling coefficient: A novel cell design optimisation tool & thermal parameterization method for a 3D discretised electro-thermal equivalent-circuit model. ETransportation, 2021, 7, 100099.	6.8	15
21	A new self-learning TLBO algorithm for RBF neural modelling of batteries in electric vehicles. , 2014, , .		13
22	Real-time estimation of negative electrode potential and state of charge of lithium-ion battery based on a half-cell-level equivalent circuit model. Journal of Energy Storage, 2022, 51, 104362.	3.9	11
23	A new concept to improve the lithium plating detection sensitivity in lithium-ion batteries. International Journal of Smart Grid and Clean Energy, 2019, , 505-516.	0.4	10
24	Battery optimal charging strategy based on a coupled thermoelectric model. , 2016, , .		9
25	Non-convex dynamic economic/environmental dispatch with plug-in electric vehicle loads. , 2014, , .		6
26	A new design of experiment method for model parametrisation of lithium ion battery. Journal of Energy Storage, 2022, 50, 104301.	3.9	6
27	Cold Ageing of NMC811 Lithium-ion Batteries. Energies, 2021, 14, 4724.	1.6	5
28	A review on battery thermal management and its digital improvementâ€based cyber hierarchy and interactional network. International Journal of Energy Research, 2022, 46, 11529-11555.	2.2	5
29	Modeling of Electric Vehicle batteries using RBF neural networks. , 2014, , .		4
30	Hardware Platform Design of Small Energy Storage System Using Second Life Batteries. , 2018, , .		3
31	A new battery modelling method based on simulation error minimization. , 2014, , .		1
32	Cooperative mapping and exploration using counter-rotational potential fields. , 2016, , .		1
33	Parameter Estimation of Hybrid Fractional-Order Hammerstein-Wiener Box-Jenkins Models Using RIVCF Method. , 2018, , .		1
34	Control-Oriented Implementation and Model Order Reduction of a Lithium-Ion Battery Electrochemical Model. , 2019, , .		0