Cheng Zhang

List of Publications by Year
in descending order

34	2,008	489802 18	685536 24
papers	citations	h-index	g-index

34	34	34	1760
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A new design of experiment method for model parametrisation of lithium ion battery. Journal of Energy Storage, 2022, 50, 104301.	3.9	6
2	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
3	A review on battery thermal management and its digital improvement—based cyber hierarchy and interactional network. International Journal of Energy Research, 2022, 46, 11529-11555.	2.2	5
4	State of charge estimation for lithium-ion battery based on an Intelligent Adaptive Extended Kalman Filter with improved noise estimator. Energy, 2021, 214, 119025.	4.5	100
5	Finding a better fit for lithium ion batteries: A simple, novel, load dependent, modified equivalent circuit model and parameterization method. Journal of Power Sources, 2021, 484, 229117.	4.0	29
6	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
7	A review on recent progress, challenges and perspective of battery thermal management system. International Journal of Heat and Mass Transfer, 2021, 167, 120834.	2.5	230
8	Optimal cell tab design and cooling strategy for cylindrical lithium-ion batteries. Journal of Power Sources, 2021, 492, 229594.	4.0	51
9	Cold Ageing of NMC811 Lithium-ion Batteries. Energies, 2021, 14, 4724.	1.6	5
10	Sustainable value chain of retired lithium-ion batteries for electric vehicles. Journal of Power Sources, 2020, 478, 228753.	4.0	102
11	State of charge estimation for <scp>lithium—ion</scp> battery based on an intelligent adaptive unscented Kalman filter. International Journal of Energy Research, 2020, 44, 11199-11218.	2.2	34
12	A comprehensive review on inconsistency and equalization technology of lithium—ion battery for electric vehicles. International Journal of Energy Research, 2020, 44, 11059-11087.	2.2	76
13	The development of optimal charging strategies for lithium-ion batteries to prevent the onset of lithium plating at low ambient temperatures. Journal of Energy Storage, 2019, 24, 100798.	3.9	50
14	Control-Oriented Implementation and Model Order Reduction of a Lithium-Ion Battery Electrochemical Model. , 2019, , .		0
15	A brief review on key technologies in the battery management system of electric vehicles. Frontiers of Mechanical Engineering, 2019, 14, 47-64.	2.5	357
16	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
17	Online estimation of battery equivalent circuit model parameters and state of charge using decoupled least squares technique. Energy, 2018, 142, 678-688.	4.5	236
18	Parameter Estimation of Hybrid Fractional-Order Hammerstein-Wiener Box-Jenkins Models Using RIVCF Method. , 2018, , .		1

#	Article	IF	Citations
19	Hardware Platform Design of Small Energy Storage System Using Second Life Batteries. , 2018, , .		3
20	A lumped thermal model of lithium-ion battery cells considering radiative heat transfer. Applied Thermal Engineering, 2018, 143, 472-481.	3.0	39
21	Constrained generalized predictive control of battery charging process based on a coupled thermoelectric model. Journal of Power Sources, 2017, 347, 145-158.	4.0	103
22	An advanced Lithium-ion battery optimal charging strategy based on a coupled thermoelectric model. Electrochimica Acta, 2017, 225, 330-344.	2.6	79
23	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. Applied Energy, 2017, 204, 497-508.	5.1	47
24	Improved Realtime State-of-Charge Estimation of LiFePO $_{oldsymbol 4}$ Battery Based on a Novel Thermoelectric Model. IEEE Transactions on Industrial Electronics, 2017, 64, 654-663.	5.2	95
25	Cooperative mapping and exploration using counter-rotational potential fields. , 2016, , .		1
26	Battery optimal charging strategy based on a coupled thermoelectric model. , 2016, , .		9
27	Real-time estimation of battery internal temperature based on a simplified thermoelectric model. Journal of Power Sources, 2016, 302, 146-154.	4.0	105
28	An integrated approach for real-time model-based state-of-charge estimation of lithium-ion batteries. Journal of Power Sources, 2015, 283, 24-36.	4.0	80
29	Non-convex dynamic economic/environmental dispatch with plug-in electric vehicle loads. , 2014, , .		6
30	A new self-learning TLBO algorithm for RBF neural modelling of batteries in electric vehicles. , 2014, , .		13
31	A new battery modelling method based on simulation error minimization. , 2014, , .		1
32	Battery modelling methods for electric vehicles - A review. , 2014, , .		86
33	Modeling of Electric Vehicle batteries using RBF neural networks. , 2014, , .		4
34	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