Weihan Li

List of Publications by Year
in descending order

24	1,733	361045 20	642321 23
papers	citations	h-index	g-index

25	25	25	1080
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Digital twin for battery systems: Cloud battery management system with online state-of-charge and state-of-health estimation. Journal of Energy Storage, 2020, 30, 101557.	3.9	271
2	Online capacity estimation of lithium-ion batteries with deep long short-term memory networks. Journal of Power Sources, 2021, 482, 228863.	4.0	180
3	Battery Thermal- and Health-Constrained Energy Management for Hybrid Electric Bus Based on Soft Actor-Critic DRL Algorithm. IEEE Transactions on Industrial Informatics, 2021, 17, 3751-3761.	7.2	169
4	Electrochemical model-based state estimation for lithium-ion batteries with adaptive unscented Kalman filter. Journal of Power Sources, 2020, 476, 228534.	4.0	123
5	Parameter sensitivity analysis of electrochemical model-based battery management systems for lithium-ion batteries. Applied Energy, 2020, 269, 115104.	5.1	114
6	One-shot battery degradation trajectory prediction with deep learning. Journal of Power Sources, 2021, 506, 230024.	4.0	89
7	Battery heating for lithium-ion batteries based on multi-stage alternative currents. Journal of Energy Storage, 2020, 32, 101885.	3.9	84
8	Impact of battery degradation models on energy management of a grid-connected DC microgrid. Energy, 2020, 207, 118228.	4.5	77
9	Nonlinear health evaluation for lithium-ion battery within full-lifespan. Journal of Energy Chemistry, 2022, 72, 333-341.	7.1	69
10	Deep reinforcement learning-based energy management of hybrid battery systems in electric vehicles. Journal of Energy Storage, 2021, 36, 102355.	3.9	67
11	Data-driven systematic parameter identification of an electrochemical model for lithium-ion batteries with artificial intelligence. Energy Storage Materials, 2022, 44, 557-570.	9.5	62
12	A review of the internal short circuit mechanism in lithiumâ€ion batteries: Inducement, detection and prevention. International Journal of Energy Research, 2021, 45, 15797-15831.	2.2	60
13	Battery Thermal Runaway Fault Prognosis in Electric Vehicles Based on Abnormal Heat Generation and Deep Learning Algorithms. IEEE Transactions on Power Electronics, 2022, 37, 8513-8525.	5.4	60
14	Physics-informed neural networks for electrode-level state estimation in lithium-ion batteries. Journal of Power Sources, 2021, 506, 230034.	4.0	49
15	Internal short circuit evaluation and corresponding failure mode analysis for lithium-ion batteries. Journal of Energy Chemistry, 2021, 61, 269-280.	7.1	48
16	Cloud-based health-conscious energy management of hybrid battery systems in electric vehicles with deep reinforcement learning. Applied Energy, 2021, 293, 116977.	5.1	47
17	State-of-Health Estimation of Lithium-ion Batteries by Fusing an Open-Circuit-Voltage Model and Incremental Capacity Analysis. IEEE Transactions on Power Electronics, 2021, , 1-1.	5.4	32
18	Hierarchical soft measurement of load current and state of charge for future smart lithium-ion batteries. Applied Energy, 2022, 307, 118246.	5.1	31

#	Article	IF	Citations
19	Unlocking electrochemical model-based online power prediction for lithium-ion batteries via Gaussian process regression. Applied Energy, 2022, 306, 118114.	5.1	26
20	ENPOLITE: Comparing Lithium-Ion Cells across Energy, Power, Lifetime, and Temperature. ACS Energy Letters, 2021, 6, 2351-2355.	8.8	21
21	A Minimal Information Set To Enable Verifiable Theoretical Battery Research. ACS Energy Letters, 2021, 6, 3831-3835.	8.8	19
22	Non-invasive identification of calendar and cyclic ageing mechanisms for lithium-titanate-oxide batteries. Energy Storage Materials, 2021, 42, 794-805.	9.5	15
23	An Efficient Optimum Energy Management Strategy Using Parallel Dynamic Programming for a Hybrid Train Powered by Fuel-Cells and Batteries. , 2019, , .		12
24	Estimation of Potentials in Lithium-Ion Batteries Using Machine Learning Models. IEEE Transactions on Control Systems Technology, 2022, 30, 680-695.	3.2	8