

Oliver Bohlen

List of Publications by Year in descending order

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23
papers

1,682
citations

516561

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h-index

752573

20
g-index

23
all docs

23
docs citations

23
times ranked

1520
citing authors

#	ARTICLE	IF	CITATIONS
1	Pareto-optimal power flow control in heterogeneous battery energy storage systems. Journal of Energy Storage, 2022, 48, 103803.	3.9	6
2	Low-effort determination of heat capacity and thermal conductivity for cylindrical 18650 and 21700 lithium-ion cells. Journal of Energy Storage, 2021, 42, 103065.	3.9	24
3	Experimental investigation of the failure mechanism of 18650 lithium-ion batteries due to shock and drop. Journal of Energy Storage, 2021, 43, 103213.	3.9	4
4	Analysis of power flow control strategies in heterogeneous battery energy storage systems. Journal of Energy Storage, 2020, 30, 101415.	3.9	10
5	Durability of lithium-ion 18650 cells under random vibration load with respect to the inner cell design. Journal of Energy Storage, 2020, 31, 101499.	3.9	27
6	Standard battery energy storage system profiles: Analysis of various applications for stationary energy storage systems using a holistic simulation framework. Journal of Energy Storage, 2020, 28, 101077.	3.9	60
7	A Novel Power Flow Control Strategy for Heterogeneous Battery Energy Storage Systems Based on Prognostic Algorithms for Batteries. , 2020, , .		1
8	Experimental study of the impedance behavior of 18650 lithium-ion battery cells under deforming mechanical abuse. Journal of Energy Storage, 2019, 26, 101039.	3.9	43
9	Power flow in heterogeneous battery systems. Journal of Energy Storage, 2019, 25, 100816.	3.9	7
10	Thermal Impedance Spectroscopy - A method for the thermal characterization of high power battery cells. Journal of Power Sources, 2013, 223, 259-267.	4.0	85
11	Aging Effect of Temperature Gradients in Li-ion Cells Experimental and Simulative Investigations and the Consequences on Thermal Battery Management. World Electric Vehicle Journal, 2012, 5, 322-333.	1.6	24
12	Reliable State Estimation of Multicell Lithium-Ion Battery Systems. IEEE Transactions on Energy Conversion, 2011, 26, 737-743.	3.7	98
13	Detection of Utilizable Capacity Deterioration in Battery Systems. IEEE Transactions on Vehicular Technology, 2011, 60, 98-103.	3.9	143
14	Current density and state of charge inhomogeneities in Li-ion battery cells with LiFePO ₄ as cathode material due to temperature gradients. Journal of Power Sources, 2011, 196, 4769-4778.	4.0	212
15	OCV Hysteresis in Li-Ion Batteries including Two-Phase Transition Materials. International Journal of Electrochemistry, 2011, 2011, 1-6.	2.4	108
16	Development of a voltage-behavior model for NiMH batteries using an impedance-based modeling concept. Journal of Power Sources, 2008, 175, 635-643.	4.0	105
17	Harmonic analysis for identification of nonlinearities in impedance spectroscopy. Electrochimica Acta, 2008, 53, 7367-7374.	2.6	50
18	Charging performance of automotive batteries – An underestimated factor influencing lifetime and reliable battery operation. Journal of Power Sources, 2007, 168, 22-30.	4.0	54

#	ARTICLE	IF	CITATIONS
19	Ageing behaviour of electrochemical double layer capacitors. Journal of Power Sources, 2007, 172, 468-475.	4.0	255
20	Ageing behaviour of electrochemical double layer capacitors. Journal of Power Sources, 2007, 173, 626-632.	4.0	129
21	Impedance measurements on lead-acid batteries for state-of-charge, state-of-health and cranking capability prognosis in electric and hybrid electric vehicles. Journal of Power Sources, 2005, 144, 418-425.	4.0	203
22	Impedance based battery diagnosis for automotive applications. , 0, , .		18
23	Optimized Energy Management for FuelCell-SuperCap Hybrid Electric Vehicles VPP Track 4: Energy Storage Components/Systems. , 0, , .		16