

Oliver Bohlen

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,682
citations

516215

16
h-index

752256

20
g-index

23
all docs

23
docs citations

23
times ranked

1520
citing authors

#	ARTICLE	IF	CITATIONS
1	Ageing behaviour of electrochemical double layer capacitors. Journal of Power Sources, 2007, 172, 468-475.	4.0	255
2	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
3	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
4	Detection of Utilizable Capacity Deterioration in Battery Systems. IEEE Transactions on Vehicular Technology, 2011, 60, 98-103.	3.9	143
5	Ageing behaviour of electrochemical double layer capacitors. Journal of Power Sources, 2007, 173, 626-632.	4.0	129
6	OCV Hysteresis in Li-Ion Batteries including Two-Phase Transition Materials. International Journal of Electrochemistry, 2011, 2011, 1-6.	2.4	108
7	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
8	Reliable State Estimation of Multicell Lithium-Ion Battery Systems. IEEE Transactions on Energy Conversion, 2011, 26, 737-743.	3.7	98
9	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
10	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
11	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
12	Harmonic analysis for identification of nonlinearities in impedance spectroscopy. Electrochimica Acta, 2008, 53, 7367-7374.	2.6	50
13	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
14	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
15	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
16	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
17	Impedance based battery diagnosis for automotive applications. , 0, , .		18
18	Optimized Energy Management for FuelCell-SuperCap Hybrid Electric Vehicles VPP Track 4: Energy Storage Components/Systems. , 0, , .		16

#	ARTICLE	IF	CITATIONS
19	Analysis of power flow control strategies in heterogeneous battery energy storage systems. Journal of Energy Storage, 2020, 30, 101415.	3.9	10
20	Power flow in heterogeneous battery systems. Journal of Energy Storage, 2019, 25, 100816.	3.9	7
21	Pareto-optimal power flow control in heterogeneous battery energy storage systems. Journal of Energy Storage, 2022, 48, 103803.	3.9	6
22	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
23	A Novel Power Flow Control Strategy for Heterogeneous Battery Energy Storage Systems Based on Prognostic Algorithms for Batteries. , 2020, , .		1