

Maciej Jozef Jozef Swierczynski

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

1,991

citations

22

h-index

44

g-index

69

ext. papers

2,703

ext. citations

4.7

avg, IF

5.12

L-index

#	Paper	IF	Citations
66	The Degradation Behavior of LiFePO ₄ /C Batteries during Long-Term Calendar Aging. <i>Energies</i> , 2021 , 14, 1732	3.1	8
65	Electrochemical Impedance Spectroscopy-Based Electric Circuit Modeling of Lithium Sulfur Batteries During a Discharging State. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 631-637	4.3	16
64	An Overview and Comparison of Online Implementable SOC Estimation Methods for Lithium-Ion Battery. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 1583-1591	4.3	121
63	Technical Viability of Battery Second Life: A Study From the Ageing Perspective. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 2703-2713	4.3	77
62	Overview of Lithium-Ion Battery Modeling Methods for State-of-Charge Estimation in Electrical Vehicles. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 659	2.6	91
61	Influence of Battery Parametric Uncertainties on the State-of-Charge Estimation of Lithium Titanate Oxide-Based Batteries. <i>Energies</i> , 2018 , 11, 795	3.1	5
60	Low-complexity online estimation for LiFePO ₄ battery state of charge in electric vehicles. <i>Journal of Power Sources</i> , 2018 , 395, 280-288	8.9	43
59	Accelerated Lifetime Testing of High Power Lithium Titanate Oxide Batteries 2018 ,		3
58	Combined cycling and calendar capacity fade modeling of a Nickel-Manganese-Cobalt Oxide Cell with real-life profile validation. <i>Applied Energy</i> , 2017 , 200, 47-61	10.7	104
57	An interdisciplinary review of energy storage for communities: Challenges and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 79, 730-749	16.2	144
56	A review of thermal management and safety for lithium ion batteries 2017 ,		4
55	Towards an Ultimate Battery Thermal Management System: A Review. <i>Batteries</i> , 2017 , 3, 9	5.7	50
54	Lithium-ion battery dynamic model for wide range of operating conditions 2017 ,		12
53	An overview of online implementable SOC estimation methods for Lithium-ion batteries 2017 ,		9
52	Thermal Behavior and Heat Generation Modeling of Lithium Sulfur Batteries. <i>ECS Transactions</i> , 2017 , 77, 467-476	1	5
51	Lithium-ion battery power degradation modelling by electrochemical impedance spectroscopy. <i>IET Renewable Power Generation</i> , 2017 , 11, 1136-1141	2.9	22
50	The discharge behavior of lithium-ion batteries using the Dual-Potential Multi-Scale Multi-Dimensional (MSMD) Battery Model 2017 ,		4

49	Operation of a Grid-Connected Lithium-Ion Battery Energy Storage System for Primary Frequency Regulation: A Battery Lifetime Perspective. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 430-438	4-3	159
48	Electrothermal impedance spectroscopy as a cost efficient method for determining thermal parameters of lithium ion batteries: Prospects, measurement methods and the state of knowledge. <i>Journal of Cleaner Production</i> , 2017 , 155, 63-71	10-3	19
47	Evolution of Surface Temperature of a 13 Amp Hour Nano Lithium-Titanate Battery Cell under Fast Charging. <i>ECS Transactions</i> , 2017 , 81, 271-279	1	2
46	Accelerated aging of Lithium-ion batteries based on electric vehicle mission profile 2017 ,		15
45	Calendar ageing of LiFePO ₄ /C batteries in the second life applications 2017 ,		1
44	Electric circuit modeling of lithium-sulfur batteries during discharging state 2017 ,		2
43	Cooling Simulation and Thermal Abuse Modeling of Lithium-Ion Batteries Using the Newman, Tiedemann, Gu, and Kim (NTGK) Model. <i>ECS Transactions</i> , 2017 , 81, 261-270	1	5
42	Lifetime prognostics of hybrid backup power system: State-of-the-art 2017 ,		1
41	Sizing Study of Second Life Li-ion Batteries for Enhancing Renewable Energy Grid Integration. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 4999-5008	4-3	53
40	2016 ,		8
39	A self-discharge model of Lithium-Sulfur batteries based on direct shuttle current measurement. <i>Journal of Power Sources</i> , 2016 , 336, 325-331	8-9	21
38	Investigation of the Self-Discharge Behavior of Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A911-A916	3-9	58
37	Sizing of an Energy Storage System for Grid Inertial Response and Primary Frequency Reserve. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 3447-3456	7	155
36	Generalized Characterization Methodology for Performance Modelling of Lithium-Ion Batteries. <i>Batteries</i> , 2016 , 2, 37	5-7	46
35	. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 5086-5099	4-3	43
34	A comprehensive study on the degradation of lithium-ion batteries during calendar ageing: The internal resistance increase 2016 ,		5
33	Performance degradation of thermal parameters during cycle ageing of high energy density Ni-Mn-Co based Lithium-Ion battery cells 2016 ,		1
32	The Second Life Ageing of the NMC/C Electric Vehicle Retired Li-Ion Batteries in the Stationary Applications. <i>ECS Transactions</i> , 2016 , 74, 55-62	1	7

31	Determination of the behavior and performance of commercial Li-Ion pouch cells by means of isothermal calorimeter 2016,		4
30	. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 5009-5018	4-3	44
29	Lifetime and economic analyses of lithium-ion batteries for balancing wind power forecast error. <i>International Journal of Energy Research</i> , 2015 , 39, 760-770	4-5	14
28	2015,		4
27	. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 3453-3461	4-3	60
26	On the complex ageing characteristics of high-power LiFePO ₄ /graphite battery cells cycled with high charge and discharge currents. <i>Journal of Power Sources</i> , 2015 , 286, 475-487	8-9	96
25	Second life battery energy storage system for residential demand response service 2015,		21
24	Comparison of parametrization techniques for an electrical circuit model of Lithium-Sulfur batteries 2015,		5
23	Study on Self-Discharge Behavior of Lithium-Sulfur Batteries. <i>ECS Transactions</i> , 2015 , 70, 95-103	1	2
22	Investigation of Multidimensional Electrothermal Impedance Spectroscopy Measurement on Lithium Ion Battery Cell. <i>ECS Transactions</i> , 2015 , 70, 305-310	1	2
21	2015,		8
20	Extensive EIS characterization of commercially available lithium polymer battery cell for performance modelling 2015,		4
19	Suggested operation of grid-connected lithium-ion battery energy storage system for primary frequency regulation: Lifetime perspective 2015,		4
18	Degradation behaviour of Lithium-ion batteries based on field measured frequency regulation mission profile 2015,		14
17	An improved parametrization method for Li-ion linear static Equivalent Circuit battery Models based on direct current resistance measurement 2015,		6
16	2015,		8
15	2015,		8
14	2014,		24

13	Selection and Performance-Degradation Modeling of $\text{LiMO}_{2}/\text{Li}_{4}\text{Ti}_{5}\text{O}_{12}$ and $\text{LiFePO}_{4}/\text{C}$ Battery Cells as Suitable Energy Storage Systems for Grid Integration With. <i>IEEE Transactions on Sustainable Energy</i> , 2014 , 5, 90-101	8.2	91
12	Lithium ion battery chemistries from renewable energy storage to automotive and back-up power applications [An overview 2014 ,		50
11	Accelerated Lifetime Testing Methodology for Lifetime Estimation of Lithium-Ion Batteries Used in Augmented Wind Power Plants. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 4006-4017	4.3	90
10	2014 ,		12
9	2014 ,		4
8	2014 ,		38
7	Primary frequency regulation with Li-ion battery energy storage system: A case study for Denmark 2013 ,		18
6	2013 ,		3
5	Field tests experience from 1.6MW/400kWh Li-ion battery energy storage system providing primary frequency regulation service 2013 ,		15
4	Accelerated lifetime testing methodology for lifetime estimation of Lithium-ion batteries used in augmented wind power plants 2013 ,		6
3	2013 ,		4
2	The lifetime of the $\text{LiFePO}_{4}/\text{C}$ battery energy storage system when used for smoothing of the wind power plant variations 2013 ,		2
1	Lithium ion batteries ageing analysis when used in a PV power plant 2012 ,		10