

Daniel Ioan Stroe

List of Publications by Citations

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123
papers

2,588
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46
g-index

143
ext. papers

3,918
ext. citations

5
avg, IF

5.93
L-index

#	Paper	IF	Citations
123	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
122	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
121	Battery second life: Hype, hope or reality? A critical review of the state of the art. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 93, 701-718	16.2	127
120	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
119	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
118	Selection and Performance-Degradation Modeling of LiMO ₂ /Li ₄ Ti ₅ O ₁₂ and LiFePO ₄ /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
117	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
116	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
115	A Simplified Model-Based State-of-Charge Estimation Approach for Lithium-Ion Battery With Dynamic Linear Model. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 7717-7727	8.9	74
114	. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 3453-3461	4.3	60
113	Investigation of the Self-Discharge Behavior of Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A911-A916	3.9	58
112	Lithium-Ion Battery State-of-Health Estimation Using the Incremental Capacity Analysis Technique. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 678-685	4.3	54
111	An evolutionary framework for lithium-ion battery state of health estimation. <i>Journal of Power Sources</i> , 2019 , 412, 615-622	8.9	54
110	. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 517-525	4.3	53
109	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
108	Lithium ion battery chemistries from renewable energy storage to automotive and back-up power applications [An overview 2014 ,		50
107	Generalized Characterization Methodology for Performance Modelling of Lithium-Ion Batteries. <i>Batteries</i> , 2016 , 2, 37	5.7	46

106	Lithium-ion battery state of health estimation with short-term current pulse test and support vector machine. <i>Microelectronics Reliability</i> , 2018 , 88-90, 1216-1220	1.2	45
105	. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 5009-5018	4.3	44
104	Low-complexity online estimation for LiFePO4 battery state of charge in electric vehicles. <i>Journal of Power Sources</i> , 2018 , 395, 280-288	8.9	43
103	Multiobjective Optimization of Data-Driven Model for Lithium-Ion Battery SOH Estimation With Short-Term Feature. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 11855-11864	7.2	40
102	Power and Energy Management with Battery Storage for a Hybrid Residential PV-Wind System A Case Study for Denmark. <i>Energy Procedia</i> , 2018 , 155, 464-477	2.3	39
101	Lithium-ion battery state-of-health estimation in electric vehicle using optimized partial charging voltage profiles. <i>Energy</i> , 2019 , 185, 1054-1062	7.9	38
100	Fast Approach for Battery Impedance Identification Using Pseudo-Random Sequence Signals. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 2548-2557	7.2	35
99	Comparative Study of Ramp-Rate Control Algorithms for PV with Energy Storage Systems. <i>Energies</i> , 2019 , 12, 1342	3.1	34
98	Control of Permanent Magnet Synchronous Generator for large wind turbines 2010 ,		30
97	State-of-health estimation of lithium-ion batteries based on semi-supervised transfer component analysis. <i>Applied Energy</i> , 2020 , 277, 115504	10.7	27
96	An optimized ensemble learning framework for lithium-ion Battery State of Health estimation in energy storage system. <i>Energy</i> , 2020 , 206, 118140	7.9	26
95	Recursive State of Charge and State of Health Estimation Method for Lithium-Ion Batteries Based on Coulomb Counting and Open Circuit Voltage. <i>Energies</i> , 2020 , 13, 1811	3.1	26
94	2014 ,		24
93	Comparison of lithium-ion battery performance at beginning-of-life and end-of-life. <i>Microelectronics Reliability</i> , 2018 , 88-90, 1251-1255	1.2	23
92	Lithium-ion battery power degradation modelling by electrochemical impedance spectroscopy. <i>IET Renewable Power Generation</i> , 2017 , 11, 1136-1141	2.9	22
91	Second life battery energy storage system for residential demand response service 2015 ,		21
90	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
89	On the feature selection for battery state of health estimation based on charging/discharging profiles. <i>Journal of Energy Storage</i> , 2021 , 33, 102122	7.8	21

88	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
87	A review of non-probabilistic machine learning-based state of health estimation techniques for Lithium-ion battery. <i>Applied Energy</i> , 2021 , 300, 117346	10.7	19
86	Primary frequency regulation with Li-ion battery energy storage system: A case study for Denmark 2013 ,		18
85	Second life battery energy storage system for enhancing renewable energy grid integration 2015 ,		17
84	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
83	An Enhanced Equivalent Circuit Model with Real-Time Parameter Identification for Battery State-of-Charge Estimation. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	16
82	Field tests experience from 1.6MW/400kWh Li-ion battery energy storage system providing primary frequency regulation service 2013 ,		15
81	Accelerated aging of Lithium-ion batteries based on electric vehicle mission profile 2017 ,		15
80	Evaluation of lithium-ion battery second life performance and degradation 2016 ,		15
79	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
78	A Review of Pulsed Current Technique for Lithium-ion Batteries. <i>Energies</i> , 2020 , 13, 2458	3.1	14
77	An Improved State of Charge and State of Power Estimation Method Based on Genetic Particle Filter for Lithium-ion Batteries. <i>Energies</i> , 2020 , 13, 478	3.1	14
76	Incremental Capacity Analysis of a Lithium-Ion Battery Pack for Different Charging Rates. <i>ECS Transactions</i> , 2017 , 77, 403-412	1	14
75	Degradation behaviour of Lithium-ion batteries based on field measured frequency regulation mission profile 2015 ,		14
74	Incremental Capacity Analysis Applied on Electric Vehicles for Battery State-of-Health Estimation. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 1810-1817	4.3	13
73	A novel power state evaluation method for the lithium battery packs based on the improved external measurable parameter coupling model. <i>Journal of Cleaner Production</i> , 2020 , 242, 118506	10.3	13
72	An Automatic Weak Learner Formulation for Lithium-ion Battery State of Health Estimation. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	13
71	Lithium-ion battery dynamic model for wide range of operating conditions 2017 ,		12

70	2014,			12
69	A Novel Multiple Correction Approach for Fast Open Circuit Voltage Prediction of Lithium-Ion Battery. <i>IEEE Transactions on Energy Conversion</i> , 2019 , 34, 1115-1123	5.4		12
68	Novel Fitting Algorithm for Parametrization of Equivalent Circuit Model of Li-Ion Battery From Broadband Impedance Measurements. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 4916-4926	8.9		12
67	A novel energy management strategy for the ternary lithium batteries based on the dynamic equivalent circuit modeling and differential Kalman filtering under time-varying conditions. <i>Journal of Power Sources</i> , 2020 , 450, 227652	8.9		11
66	Battery state-of-health modelling by multiple linear regression. <i>Journal of Cleaner Production</i> , 2021 , 290, 125700	10.3		11
65	Short term energy storage for grid support in wind power applications 2012,			10
64	An overview of online implementable SOC estimation methods for Lithium-ion batteries 2017,			9
63	Self-balancing feature of Lithium-Sulfur batteries. <i>Journal of Power Sources</i> , 2017 , 372, 245-251	8.9		9
62	Reference Performance Test Methodology for Degradation Assessment of Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A1601-A1609	3.9		9
61	An Accurate Time Constant Parameter Determination Method for the Varying Condition Equivalent Circuit Model of Lithium Batteries. <i>Energies</i> , 2020 , 13, 2057	3.1		8
60	2016,			8
59	2015,			8
58	2015,			8
57	2015,			8
56	Control strategies for VSC-based HVDC transmission system 2011,			8
55	A Review of Battery Technology in CubeSats and Small Satellite Solutions. <i>Energies</i> , 2020 , 13, 4097	3.1		8
54	The Degradation Behavior of LiFePO ₄ /C Batteries during Long-Term Calendar Aging. <i>Energies</i> , 2021 , 14, 1732	3.1		8
53	Effects of open-circuit voltage tests and models on state-of-charge estimation for batteries in highly variable temperature environments: Study case nano-satellites. <i>Journal of Power Sources</i> , 2021 , 498, 229913	8.9		8

52	Battery Storage-Based Frequency Containment Reserves in Large Wind Penetrated Scenarios: A Practical Approach to Sizing. <i>Energies</i> , 2018 , 11, 3065	3.1	8
51	Lithium-Ion Battery Operation, Degradation, and Aging Mechanism in Electric Vehicles: An Overview. <i>Energies</i> , 2021 , 14, 5220	3.1	8
50	State-of-Health Estimation of Lithium-Ion Batteries Based on Partial Charging Voltage Profiles. <i>ECS Transactions</i> , 2018 , 85, 379-386	1	7
49	Log-Linear Model for Predicting the Lithium-ion Battery Age Based on Resistance Extraction from Dynamic Aging Profiles. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 6937-6948	4.3	7
48	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
47	Fuzzy Entropy-Based State of Health Estimation for Li-Ion Batteries. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 5125-5137	5.6	7
46	Methodology for Assessing the Lithium-Sulfur Battery Degradation for Practical Applications. <i>ECS Transactions</i> , 2017 , 77, 479-490	1	6
45	A Novel Control Architecture for Hybrid Power Plants to Provide Coordinated Frequency Reserves. <i>Energies</i> , 2019 , 12, 919	3.1	6
44	Concurrent Real-Time Estimation of State of Health and Maximum Available Power in Lithium-Sulfur Batteries. <i>Energies</i> , 2018 , 11, 2133	3.1	6
43	An improved coulomb counting method based on dual open-circuit voltage and real-time evaluation of battery dischargeable capacity considering temperature and battery aging. <i>International Journal of Energy Research</i> , 2021 , 45, 17609-17621	4.5	6
42	Comparison of parametrization techniques for an electrical circuit model of Lithium-Sulfur batteries 2015 ,		5
41	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
40	The Effect of Voltage Dataset Selection on the Accuracy of Entropy-Based Capacity Estimation Methods for Lithium-Ion Batteries. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4170	2.6	5
39	Thermal Behavior and Heat Generation Modeling of Lithium Sulfur Batteries. <i>ECS Transactions</i> , 2017 , 77, 467-476	1	5
38	Broadband Impedance Measurement of Lithium-Ion Battery in the Presence of Nonlinear Distortions. <i>Energies</i> , 2020 , 13, 2493	3.1	5
37	Wireless Smart Battery Management System for Electric Vehicles 2020 ,		5
36	A comprehensive study on the degradation of lithium-ion batteries during calendar ageing: The internal resistance increase 2016 ,		5
35	Battery Lifetime Analysis for Residential PV-Battery System used to Optimize the Self Consumption - A Danish Scenario 2019 ,		5

34	Partial Charging Method for Lithium-Ion Battery State-of-Health Estimation 2019,		4
33	Extensive EIS characterization of commercially available lithium polymer battery cell for performance modelling 2015,		4
32	Suggested operation of grid-connected lithium-ion battery energy storage system for primary frequency regulation: Lifetime perspective 2015,		4
31	2014,		4
30	The Effect of Pulsed Current on the Performance of Lithium-ion Batteries 2020,		4
29	Validating Performance Models for Hybrid Power Plant Control Assessment. <i>Energies</i> , 2019 , 12, 4330	3.1	4
28	SOH Estimation of LMO/NMC-based Electric Vehicle Lithium-Ion Batteries Using the Incremental Capacity Analysis Technique 2018,		4
27	Overview of Machine Learning Methods for Lithium-Ion Battery Remaining Useful Lifetime Prediction. <i>Electronics (Switzerland)</i> , 2021 , 10, 3126	2.6	4
26	Incremental Capacity Analysis for Electric Vehicle Battery State-of-Health Estimation 2019,		3
25	2013,		3
24	Literature Review, Recycling of Lithium-Ion Batteries from Electric Vehicles, Part I: Recycling Technology. <i>Energies</i> , 2022 , 15, 1086	3.1	3
23	A review of sliding mode observers based on equivalent circuit model for battery SoC estimation 2019,		2
22	Electric circuit modeling of lithium-sulfur batteries during discharging state 2017,		2
21	Effect of Pulsed Current on Charging Performance of Lithium-ion Batteries. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	2
20	A novel feedback correction-adaptive Kalman filtering method for the whole-life-cycle state of charge and closed-circuit voltage prediction of lithium-ion batteries based on the second-order electrical equivalent circuit model. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 139, 108020	5.1	2
19	Fast and Robust Estimation of Lithium-ion Batteries State of Health Using Ensemble Learning 2021,		2
18	Novel online fitting algorithm for impedance-based state estimation of Li-ion batteries 2019,		2
17	2019,		1

16	Calendar ageing of LiFePO ₄ /C batteries in the second life applications 2017 ,		1
15	Transferring the Incremental Capacity Analysis to Lithium-Sulfur Batteries. <i>ECS Transactions</i> , 2017 , 77, 1919-1927	1	1
14	Improved covariance matching electrical equivalent modeling for accurate internal state characterization of packing lithium-ion batteries. <i>International Journal of Energy Research</i> ,	4.5	1
13	Lifetime Extension of Lithium-ion Batteries with Low-Frequency Pulsed Current Charging. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	1
12	Performance degradation of thermal parameters during cycle ageing of high energy density Ni-Mn-Co based Lithium-Ion battery cells 2016 ,		1
11	Electrical equivalent circuit modeling 2021 , 47-94		1
10	Battery system active control strategies 2021 , 313-340		1
9	Test Platform for Photovoltaic Systems with Integrated Battery Energy Storage Applications 2018 ,		1
8	Transfer Learning for Adapting Battery State-of-Health Estimation From Laboratory to Field Operation. <i>IEEE Access</i> , 2022 , 10, 26514-26528	3.5	1
7	Experimental Study on Calendaristic Degradation and Self-Discharge of 3.4 Ah Lithium-Sulfur Pouch Cells. <i>ECS Transactions</i> , 2018 , 85, 267-273	1	0
6	Battery state-of-energy prediction methods 2021 , 199-226		0
5	Electrochemical Nernst modeling 2021 , 95-124		0
4	Battery state-of-charge estimation methods 2021 , 157-198		
3	Battery state-of-health estimation methods 2021 , 255-311		
2	Battery state-of-power evaluation methods 2021 , 227-254		
1	Capacity State-of-Health Estimation of Electric Vehicle Batteries Using Machine Learning and Impedance Measurements. <i>Electronics (Switzerland)</i> , 2022 , 11, 1414	2.6	