

# Daniel Ioan Stroe

## 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.

123  
papers

2,588  
citations

27  
h-index

46  
g-index

143  
ext. papers

3,918  
ext. citations

5  
avg, IF

5.93  
L-index

#	Paper	IF	Citations
123	Literature Review, Recycling of Lithium-Ion Batteries from Electric Vehicles, Part I: Recycling Technology. <i>Energies</i> , <b>2022</b> , 15, 1086	3.1	3
122	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> , <b>2022</b> , 139, 108020	5.1	2
121	Transfer Learning for Adapting Battery State-of-Health Estimation From Laboratory to Field Operation. <i>IEEE Access</i> , <b>2022</b> , 10, 26514-26528	3.5	1
120	Capacity State-of-Health Estimation of Electric Vehicle Batteries Using Machine Learning and Impedance Measurements. <i>Electronics (Switzerland)</i> , <b>2022</b> , 11, 1414	2.6	
119	Effect of Pulsed Current on Charging Performance of Lithium-ion Batteries. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	2
118	Fast and Robust Estimation of Lithium-ion Batteries State of Health Using Ensemble Learning <b>2021</b> ,		2
117	Lifetime Extension of Lithium-ion Batteries with Low-Frequency Pulsed Current Charging. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 1-1	5.6	1
116	Battery state-of-health modelling by multiple linear regression. <i>Journal of Cleaner Production</i> , <b>2021</b> , 290, 125700	10.3	11
115	Incremental Capacity Analysis Applied on Electric Vehicles for Battery State-of-Health Estimation. <i>IEEE Transactions on Industry Applications</i> , <b>2021</b> , 57, 1810-1817	4.3	13
114	The Degradation Behavior of LiFePO <sub>4</sub> /C Batteries during Long-Term Calendar Aging. <i>Energies</i> , <b>2021</b> , 14, 1732	3.1	8
113	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> , <b>2021</b> , 498, 229913	8.9	8
112	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> , <b>2021</b> , 45, 17609-17621	4.5	6
111	Novel Fitting Algorithm for Parametrization of Equivalent Circuit Model of Li-Ion Battery From Broadband Impedance Measurements. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 4916-4926	8.9	12
110	On the feature selection for battery state of health estimation based on charging-discharging profiles. <i>Journal of Energy Storage</i> , <b>2021</b> , 33, 102122	7.8	21
109	Battery state-of-energy prediction methods <b>2021</b> , 199-226		0
108	An Enhanced Equivalent Circuit Model with Real-Time Parameter Identification for Battery State-of-Charge Estimation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	16
107	Electrical equivalent circuit modeling <b>2021</b> , 47-94		1

106 Battery state-of-charge estimation methods **2021**, 157-198

105 Battery system active control strategies **2021**, 313-340

1

104 Battery state-of-health estimation methods **2021**, 255-311

103 An Automatic Weak Learner Formulation for Lithium-ion Battery State of Health Estimation. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1

8.9 13

102 Lithium-Ion Battery Operation, Degradation, and Aging Mechanism in Electric Vehicles: An Overview. *Energies*, **2021**, 14, 5220

3.1 8

101 Fuzzy Entropy-Based State of Health Estimation for Li-Ion Batteries. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 9, 5125-5137

5.6 7

100 A review of non-probabilistic machine learning-based state of health estimation techniques for Lithium-ion battery. *Applied Energy*, **2021**, 300, 117346

10.7 19

99 Electrochemical Nernst modeling **2021**, 95-124

0

98 Battery state-of-power evaluation methods **2021**, 227-254

97 Overview of Machine Learning Methods for Lithium-Ion Battery Remaining Useful Lifetime Prediction. *Electronics (Switzerland)*, **2021**, 10, 3126

2.6 4

96 Multiobjective Optimization of Data-Driven Model for Lithium-Ion Battery SOH Estimation With Short-Term Feature. *IEEE Transactions on Power Electronics*, **2020**, 35, 11855-11864

7.2 40

95 A Review of Pulsed Current Technique for Lithium-ion Batteries. *Energies*, **2020**, 13, 2458

3.1 14

94 An optimized ensemble learning framework for lithium-ion Battery State of Health estimation in energy storage system. *Energy*, **2020**, 206, 118140

7.9 26

93 An Improved State of Charge and State of Power Estimation Method Based on Genetic Particle Filter for Lithium-ion Batteries. *Energies*, **2020**, 13, 478

3.1 14

92 Recursive State of Charge and State of Health Estimation Method for Lithium-Ion Batteries Based on Coulomb Counting and Open Circuit Voltage. *Energies*, **2020**, 13, 1811

3.1 26

91 An Accurate Time Constant Parameter Determination Method for the Varying Condition Equivalent Circuit Model of Lithium Batteries. *Energies*, **2020**, 13, 2057

3.1 8

90 The Effect of Pulsed Current on the Performance of Lithium-ion Batteries **2020**,

4

89 Broadband Impedance Measurement of Lithium-Ion Battery in the Presence of Nonlinear Distortions. *Energies*, **2020**, 13, 2493

3.1 5

88	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> , <b>2020</b> , 450, 227652	8.9	11
87	Lithium-Ion Battery State-of-Health Estimation Using the Incremental Capacity Analysis Technique. <i>IEEE Transactions on Industry Applications</i> , <b>2020</b> , 56, 678-685	4.3	54
86	State-of-health estimation of lithium-ion batteries based on semi-supervised transfer component analysis. <i>Applied Energy</i> , <b>2020</b> , 277, 115504	10.7	27
85	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> , <b>2020</b> , 56, 6937-6948	4.3	7
84	A Review of Battery Technology in CubeSats and Small Satellite Solutions. <i>Energies</i> , <b>2020</b> , 13, 4097	3.1	8
83	Wireless Smart Battery Management System for Electric Vehicles <b>2020</b> ,		5
82	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> , <b>2020</b> , 242, 118506	10.3	13
81	Fast Approach for Battery Impedance Identification Using Pseudo-Random Sequence Signals. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 2548-2557	7.2	35
80	<b>2019</b> ,		1
79	Partial Charging Method for Lithium-Ion Battery State-of-Health Estimation <b>2019</b> ,		4
78	Incremental Capacity Analysis for Electric Vehicle Battery State-of-Health Estimation <b>2019</b> ,		3
77	Comparative Study of Ramp-Rate Control Algorithms for PV with Energy Storage Systems. <i>Energies</i> , <b>2019</b> , 12, 1342	3.1	34
76	A Novel Control Architecture for Hybrid Power Plants to Provide Coordinated Frequency Reserves. <i>Energies</i> , <b>2019</b> , 12, 919	3.1	6
75	Electrochemical Impedance Spectroscopy-Based Electric Circuit Modeling of Lithium Sulfur Batteries During a Discharging State. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 631-637	4.3	16
74	A review of sliding mode observers based on equivalent circuit model for battery SoC estimation <b>2019</b> ,		2
73	Lithium-ion battery state-of-health estimation in electric vehicle using optimized partial charging voltage profiles. <i>Energy</i> , <b>2019</b> , 185, 1054-1062	7.9	38
72	The Effect of Voltage Dataset Selection on the Accuracy of Entropy-Based Capacity Estimation Methods for Lithium-Ion Batteries. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 4170	2.6	5
71	Novel online fitting algorithm for impedance-based state estimation of Li-ion batteries <b>2019</b> ,		2

70	Validating Performance Models for Hybrid Power Plant Control Assessment. <i>Energies</i> , <b>2019</b> , 12, 4330	3.1	4
69	Battery Lifetime Analysis for Residential PV-Battery System used to Optimize the Self Consumption - A Danish Scenario <b>2019</b> ,		5
68	An evolutionary framework for lithium-ion battery state of health estimation. <i>Journal of Power Sources</i> , <b>2019</b> , 412, 615-622	8.9	54
67	A Novel Multiple Correction Approach for Fast Open Circuit Voltage Prediction of Lithium-Ion Battery. <i>IEEE Transactions on Energy Conversion</i> , <b>2019</b> , 34, 1115-1123	5.4	12
66	A Simplified Model-Based State-of-Charge Estimation Approach for Lithium-Ion Battery With Dynamic Linear Model. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 7717-7727	8.9	74
65	An Overview and Comparison of Online Implementable SOC Estimation Methods for Lithium-Ion Battery. <i>IEEE Transactions on Industry Applications</i> , <b>2018</b> , 54, 1583-1591	4.3	121
64	Technical Viability of Battery Second Life: A Study From the Ageing Perspective. <i>IEEE Transactions on Industry Applications</i> , <b>2018</b> , 54, 2703-2713	4.3	77
63	. <i>IEEE Transactions on Industry Applications</i> , <b>2018</b> , 54, 517-525	4.3	53
62	Overview of Lithium-Ion Battery Modeling Methods for State-of-Charge Estimation in Electrical Vehicles. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 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> , <b>2018</b> , 11, 795	3.1	5
60	State-of-Health Estimation of Lithium-Ion Batteries Based on Partial Charging Voltage Profiles. <i>ECS Transactions</i> , <b>2018</b> , 85, 379-386	1	7
59	Experimental Study on Calendaristic Degradation and Self-Discharge of 3.4 Ah Lithium-Sulfur Pouch Cells. <i>ECS Transactions</i> , <b>2018</b> , 85, 267-273	1	0
58	Concurrent Real-Time Estimation of State of Health and Maximum Available Power in Lithium-Sulfur Batteries. <i>Energies</i> , <b>2018</b> , 11, 2133	3.1	6
57	Low-complexity online estimation for LiFePO4 battery state of charge in electric vehicles. <i>Journal of Power Sources</i> , <b>2018</b> , 395, 280-288	8.9	43
56	Battery Storage-Based Frequency Containment Reserves in Large Wind Penetrated Scenarios: A Practical Approach to Sizing. <i>Energies</i> , <b>2018</b> , 11, 3065	3.1	8
55	Test Platform for Photovoltaic Systems with Integrated Battery Energy Storage Applications <b>2018</b> ,		1
54	Power and Energy Management with Battery Storage for a Hybrid Residential PV-Wind System A Case Study for Denmark. <i>Energy Procedia</i> , <b>2018</b> , 155, 464-477	2.3	39
53	SOH Estimation of LMO/NMC-based Electric Vehicle Lithium-Ion Batteries Using the Incremental Capacity Analysis Technique <b>2018</b> ,		4

52	Comparison of lithium-ion battery performance at beginning-of-life and end-of-life. <i>Microelectronics Reliability</i> , <b>2018</b> , 88-90, 1251-1255	1.2	23
51	Lithium-ion battery state of health estimation with short-term current pulse test and support vector machine. <i>Microelectronics Reliability</i> , <b>2018</b> , 88-90, 1216-1220	1.2	45
50	Reference Performance Test Methodology for Degradation Assessment of Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A1601-A1609	3.9	9
49	Battery second life: Hype, hope or reality? A critical review of the state of the art. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 93, 701-718	16.2	127
48	Methodology for Assessing the Lithium-Sulfur Battery Degradation for Practical Applications. <i>ECS Transactions</i> , <b>2017</b> , 77, 479-490	1	6
47	Incremental Capacity Analysis of a Lithium-Ion Battery Pack for Different Charging Rates. <i>ECS Transactions</i> , <b>2017</b> , 77, 403-412	1	14
46	Lithium-ion battery dynamic model for wide range of operating conditions <b>2017</b> ,		12
45	An overview of online implementable SOC estimation methods for Lithium-ion batteries <b>2017</b> ,		9
44	Self-balancing feature of Lithium-Sulfur batteries. <i>Journal of Power Sources</i> , <b>2017</b> , 372, 245-251	8.9	9
43	Thermal Behavior and Heat Generation Modeling of Lithium Sulfur Batteries. <i>ECS Transactions</i> , <b>2017</b> , 77, 467-476	1	5
42	Lithium-ion battery power degradation modelling by electrochemical impedance spectroscopy. <i>IET Renewable Power Generation</i> , <b>2017</b> , 11, 1136-1141	2.9	22
41	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> , <b>2017</b> , 53, 430-438	4.3	159
40	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> , <b>2017</b> , 155, 63-71	10.3	19
39	Accelerated aging of Lithium-ion batteries based on electric vehicle mission profile <b>2017</b> ,		15
38	Calendar ageing of LiFePO <sub>4</sub> /C batteries in the second life applications <b>2017</b> ,		1
37	Electric circuit modeling of lithium-sulfur batteries during discharging state <b>2017</b> ,		2
36	Transferring the Incremental Capacity Analysis to Lithium-Sulfur Batteries. <i>ECS Transactions</i> , <b>2017</b> , 77, 1919-1927	1	1
35	Sizing Study of Second Life Li-ion Batteries for Enhancing Renewable Energy Grid Integration. <i>IEEE Transactions on Industry Applications</i> , <b>2016</b> , 52, 4999-5008	4.3	53

34	<b>2016,</b>		8
33	A self-discharge model of Lithium-Sulfur batteries based on direct shuttle current measurement. <i>Journal of Power Sources</i> , <b>2016</b> , 336, 325-331	8.9	21
32	Investigation of the Self-Discharge Behavior of Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, A911-A916	3.9	58
31	Sizing of an Energy Storage System for Grid Inertial Response and Primary Frequency Reserve. <i>IEEE Transactions on Power Systems</i> , <b>2016</b> , 31, 3447-3456	7	155
30	Generalized Characterization Methodology for Performance Modelling of Lithium-Ion Batteries. <i>Batteries</i> , <b>2016</b> , 2, 37	5.7	46
29	A comprehensive study on the degradation of lithium-ion batteries during calendar ageing: The internal resistance increase <b>2016,</b>		5
28	Performance degradation of thermal parameters during cycle ageing of high energy density Ni-Mn-Co based Lithium-Ion battery cells <b>2016,</b>		1
27	Evaluation of lithium-ion battery second life performance and degradation <b>2016,</b>		15
26	The Second Life Ageing of the NMC/C Electric Vehicle Retired Li-Ion Batteries in the Stationary Applications. <i>ECS Transactions</i> , <b>2016</b> , 74, 55-62	1	7
25	. <i>IEEE Transactions on Industry Applications</i> , <b>2016</b> , 52, 5009-5018	4.3	44
24	Lifetime and economic analyses of lithium-ion batteries for balancing wind power forecast error. <i>International Journal of Energy Research</i> , <b>2015</b> , 39, 760-770	4.5	14
23	. <i>IEEE Transactions on Industry Applications</i> , <b>2015</b> , 51, 3453-3461	4.3	60
22	Second life battery energy storage system for residential demand response service <b>2015,</b>		21
21	Second life battery energy storage system for enhancing renewable energy grid integration <b>2015,</b>		17
20	Comparison of parametrization techniques for an electrical circuit model of Lithium-Sulfur batteries <b>2015,</b>		5
19	<b>2015,</b>		8
18	Extensive EIS characterization of commercially available lithium polymer battery cell for performance modelling <b>2015,</b>		4
17	Suggested operation of grid-connected lithium-ion battery energy storage system for primary frequency regulation: Lifetime perspective <b>2015,</b>		4

16	Degradation behaviour of Lithium-ion batteries based on field measured frequency regulation mission profile <b>2015,</b>		14
15	<b>2015,</b>		8
14	<b>2015,</b>		8
13	<b>2014,</b>		24
12	Selection and Performance-Degradation Modeling of $\text{LiMO}_{2}/\text{LiTiO}_{5}$ and $\text{LiFePO}_{4}/\text{C}$ Battery Cells as Suitable Energy Storage Systems for Grid Integration With. <i>IEEE Transactions on Sustainable Energy</i> , <b>2014</b> , 5, 90-101	8.2	91
11	Lithium ion battery chemistries from renewable energy storage to automotive and back-up power applications [An overview <b>2014,</b>		50
10	Accelerated Lifetime Testing Methodology for Lifetime Estimation of Lithium-Ion Batteries Used in Augmented Wind Power Plants. <i>IEEE Transactions on Industry Applications</i> , <b>2014</b> , 50, 4006-4017	4.3	90
9	<b>2014,</b>		12
8	<b>2014,</b>		4
7	Primary frequency regulation with Li-ion battery energy storage system: A case study for Denmark <b>2013,</b>		18
6	<b>2013,</b>		3
5	Field tests experience from 1.6MW/400kWh Li-ion battery energy storage system providing primary frequency regulation service <b>2013,</b>		15
4	Short term energy storage for grid support in wind power applications <b>2012,</b>		10
3	Control strategies for VSC-based HVDC transmission system <b>2011,</b>		8
2	Control of Permanent Magnet Synchronous Generator for large wind turbines <b>2010,</b>		30
1	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