

# Andreas Jossen

## List of Publications by Year in descending order

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214  
papers

10,592  
citations

32410

55  
h-index

43601

95  
g-index

216  
all docs

216  
docs citations

216  
times ranked

7731  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal pool composition of commercial electric vehicles in V2G fleet operation of various electricity markets. <i>Applied Energy</i> , 2022, 308, 118351.	5.1	30
2	Adaptive method for sensorless temperature estimation over the lifetime of lithium-ion batteries. <i>Journal of Power Sources</i> , 2022, 521, 230864.	4.0	8
3	The Role of Silicon in Silicon-Graphite Composite Electrodes Regarding Specific Capacity, Cycle Stability, and Expansion. <i>Journal of the Electrochemical Society</i> , 2022, 169, 010504.	1.3	28
4	Meta-analysis of experimental results for heat capacity and thermal conductivity in lithium-ion batteries: A critical review. <i>Journal of Power Sources</i> , 2022, 522, 230829.	4.0	28
5	Experimental Analysis of Short-Circuit Scenarios Applied to Silicon-Graphite/Nickel-Rich Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2022, 169, 020569.	1.3	2
6	Embedded real-time state observer implementation for lithium-ion cells using an electrochemical model and extended Kalman filter. <i>Journal of Power Sources</i> , 2022, 525, 231018.	4.0	9
7	SimSES: A holistic simulation framework for modeling and analyzing stationary energy storage systems. <i>Journal of Energy Storage</i> , 2022, 49, 103743.	3.9	11
8	Investigation of the distribution of relaxation times of a porous electrode using a physics-based impedance model. <i>Journal of Power Sources</i> , 2022, 530, 231250.	4.0	15
9	Determination of degradation modes of lithium-ion batteries considering aging-induced changes in the half-cell open-circuit potential curve of silicon-graphite. <i>Journal of Power Sources</i> , 2022, 532, 231296.	4.0	25
10	Modeling capacity fade of lithium-ion batteries during dynamic cycling considering path dependence. <i>Journal of Energy Storage</i> , 2022, 52, 104718.	3.9	9
11	Determination of Internal Temperature Differences for Various Cylindrical Lithium-Ion Batteries Using a Pulse Resistance Approach. <i>Batteries</i> , 2022, 8, 60.	2.1	5
12	The Role of Silicon in Silicon-Graphite Composite Electrodes Regarding Specific Capacity, Cycle Stability, and Expansion. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 421-421.	0.0	0
13	A Novel Measurement Technique for Parallel-Connected Lithium-Ion Cells with Controllable Interconnection Resistance. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 73-73.	0.0	0
14	A Classical Newman-Type Model for Pure-Silicon Anodes. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 428-428.	0.0	0
15	Impact of Silicon Content within Silicon-Graphite Anodes on Performance and Li Concentration Profiles of Li-Ion Cells using Neutron Depth Profiling. <i>Journal of the Electrochemical Society</i> , 2021, 168, 020519.	1.3	27
16	Comparative Evaluation of LMR-NCM and NCA Cathode Active Materials in Multilayer Lithium-Ion Pouch Cells: Part II. Rate Capability, Long-Term Stability, and Thermal Behavior. <i>Journal of the Electrochemical Society</i> , 2021, 168, 020537.	1.3	18
17	Power Line Communications for Automotive High Voltage Battery Systems: Channel Modeling and Coexistence Study with Battery Monitoring. <i>Energies</i> , 2021, 14, 1851.	1.6	11
18	Anode Potential Estimation in Lithium-Ion Batteries Using Data-Driven Models for Online Applications. <i>Journal of the Electrochemical Society</i> , 2021, 168, 030535.	1.3	10

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19	High frequency impedance characteristics of cylindrical lithium-ion cells: Physical-based modeling of cell state and cell design dependencies. <i>Journal of Power Sources</i> , 2021, 488, 229463.	4.0	18
20	Comparative Evaluation of LMR-NCM and NCA Cathode Active Materials in Multilayer Lithium-Ion Pouch Cells: Part I. Production, Electrode Characterization, and Formation. <i>Journal of the Electrochemical Society</i> , 2021, 168, 030507.	1.3	35
21	Pulse resistance based online temperature estimation for lithium-ion cells. <i>Journal of Power Sources</i> , 2021, 490, 229523.	4.0	17
22	Electrochemically Stable In Situ Dilatometry of NMC, NCA and Graphite Electrodes for Lithium-Ion Cells Compared to XRD Measurements. <i>Journal of the Electrochemical Society</i> , 2021, 168, 040515.	1.3	36
23	Heat Generation in Lithium Iron Phosphate/Graphite Batteries: Simulation with Validation through Isothermal and Adiabatic Calorimetric Measurements. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 200-200.	0.0	0
24	Continuous approximation of the ZARC element with passive components. <i>Measurement Science and Technology</i> , 2021, 32, 104011.	1.4	14
25	Implications of the Heat Generation of LMR-NCM on the Thermal Behavior of Large-Format Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2021, 168, 053505.	1.3	6
26	Evolution of initial cell-to-cell variations during a three-year production cycle. <i>ETransportation</i> , 2021, 8, 100102.	6.8	44
27	Comprehensive Analysis of the Aging Behavior of Nickel-Rich, Silicon-Graphite Lithium-Ion Cells Subject to Varying Temperature and Charging Profiles. <i>Journal of the Electrochemical Society</i> , 2021, 168, 060522.	1.3	17
28	A novel measurement technique for parallel-connected lithium-ion cells with controllable interconnection resistance. <i>Journal of Power Sources</i> , 2021, 503, 230030.	4.0	8
29	Evaluating the interdependency between peer-to-peer networks and energy storages: A techno-economic proof for prosumers. <i>Advances in Applied Energy</i> , 2021, 3, 100059.	6.6	17
30	Reducing grid peak load through the coordinated control of battery energy storage systems located at electric vehicle charging parks. <i>Applied Energy</i> , 2021, 295, 116936.	5.1	39
31	Change in the half-cell open-circuit potential curves of silicon-graphite and nickel-rich lithium nickel manganese cobalt oxide during cycle aging. <i>Journal of Power Sources</i> , 2021, 506, 230240.	4.0	25
32	Analyzing the Aging Behavior of Lithium-Ion Cells Connected in Parallel Considering Varying Charging Profiles and Initial Cell-to-Cell Variations. <i>Journal of the Electrochemical Society</i> , 2021, 168, 090524.	1.3	7
33	Low-effort determination of heat capacity and thermal conductivity for cylindrical 18650 and 21700 lithium-ion cells. <i>Journal of Energy Storage</i> , 2021, 42, 103065.	3.9	24
34	The carbon footprint of island grids with lithium-ion battery systems: An analysis based on leveled emissions of energy supply. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111353.	8.2	17
35	Experimental investigation of the failure mechanism of 18650 lithium-ion batteries due to shock and drop. <i>Journal of Energy Storage</i> , 2021, 43, 103213.	3.9	4
36	State-of-health estimation using a neural network trained on vehicle data. <i>Journal of Power Sources</i> , 2021, 512, 230493.	4.0	12

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37	Enhanced performance and lifetime of lithium-ion batteries by laser structuring of graphite anodes. Applied Energy, 2021, 303, 117693.	5.1	47
38	Electric vehicle multi-use: Optimizing multiple value streams using mobile storage systems in a vehicle-to-grid context. Applied Energy, 2021, 304, 117862.	5.1	44
39	The Effects of Non-Uniform Mechanical Compression of Lithium-Ion Cells on Local Current Densities and Lithium Plating. Journal of the Electrochemical Society, 2021, 168, 110515.	1.3	18
40	Review of fast charging strategies for lithium-ion battery systems and their applicability for battery electric vehicles. Journal of Energy Storage, 2021, 44, 103306.	3.9	86
41	Sensorless Cell Temperature Estimation over the Lifetime of Lithium-Ion Batteries. ECS Meeting Abstracts, 2021, MA2021-02, 67-67.	0.0	0
42	Non-Destructive Degradation Diagnostics of Lithium-Ion Cells Considering Aging-Related Changes in the Shape of the Half-Cell Open Circuit Potential Curve of Silicon-Graphite. ECS Meeting Abstracts, 2021, MA2021-02, 381-381.	0.0	0
43	Peak Shaving with Battery Energy Storage Systems in Distribution Grids: A Novel Approach to Reduce Local and Global Peak Loads. Electricity, 2021, 2, 573-589.	1.4	7
44	Modeling and Simulation of Pore Morphology Modifications using Laser-Structured Graphite Anodes in Lithium-Ion Batteries. Journal of the Electrochemical Society, 2020, 167, 013506.	1.3	42
45	Electrochemical Thermal-Mechanical Modelling of Stress Inhomogeneity in Lithium-Ion Pouch Cells. Journal of the Electrochemical Society, 2020, 167, 013512.	1.3	59
46	Impact of Cell Size and Format on External Short Circuit Behavior of Lithium-Ion Cells at Varying Cooling Conditions: Modeling and Simulation. Journal of the Electrochemical Society, 2020, 167, 013511.	1.3	17
47	Assessment of residential battery storage systems and operation strategies considering battery aging. International Journal of Energy Research, 2020, 44, 718-731.	2.2	9
48	Proton exchange membrane water electrolysis at high current densities: Investigation of thermal limitations. International Journal of Hydrogen Energy, 2020, 45, 1417-1428.	3.8	20
49	Thermal conductivity inside prismatic lithium-ion cells with dependencies on temperature and external compression pressure. Journal of Energy Storage, 2020, 32, 101680.	3.9	21
50	Measurement of gas pressure inside large-format prismatic lithium-ion cells during operation and cycle aging. Journal of Power Sources, 2020, 478, 228661.	4.0	33
51	Simulation of voltage imbalance in large lithium-ion battery packs influenced by cell-to-cell variations and balancing systems. Journal of Energy Storage, 2020, 32, 101828.	3.9	24
52	Electrochemical Modeling of Linear and Nonlinear Aging of Lithium-Ion Cells. Journal of the Electrochemical Society, 2020, 167, 110535.	1.3	63
53	Energy Arbitrage Optimization With Battery Storage: 3D-MILP for Electro-Thermal Performance and Semi-Empirical Aging Models. IEEE Access, 2020, 8, 204325-204341.	2.6	16
54	Reduced-Order Electro-Thermal Battery Model Ready for Software-in-the-Loop and Hardware-in-the-Loop BMS Evaluation for an Electric Vehicle. World Electric Vehicle Journal, 2020, 11, 75.	1.6	6

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55	Unlocking the Potential of Battery Storage with the Dynamic Stacking of Multiple Applications. Cell Reports Physical Science, 2020, 1, 100238.	2.8	46
56	Continuous Shuttle Current Measurement Method for Lithium Sulfur Cells. Journal of the Electrochemical Society, 2020, 167, 090534.	1.3	9
57	Power Line Communications in Automotive Traction Batteries: A Proof of Concept. , 2020, , .		5
58	A Physical-Based High-Frequency Model of Cylindrical Lithium-Ion Batteries for Time Domain Simulation. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 1524-1533.	1.4	8
59	Capacity Recovery Effect in Commercial LiFePO <sub>4</sub> / Graphite Cells. Journal of the Electrochemical Society, 2020, 167, 040526.	1.3	26
60	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
61	Structural dynamics of lithium-ion cells” part II: Investigation of large-format prismatic cells and method evaluation. Journal of Energy Storage, 2020, 28, 101246.	3.9	9
62	Online aging determination in lithium-ion battery module with forced temperature gradient. Journal of Energy Storage, 2020, 28, 101170.	3.9	34
63	Analysis and modeling of cycle aging of a commercial LiFePO <sub>4</sub> /graphite cell. Journal of Power Sources, 2020, 451, 227666.	4.0	83
64	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
65	On The Impact of the Locality on Short-Circuit Characteristics: Experimental Analysis and Multiphysics Simulation of External and Local Short-Circuits Applied to Lithium-Ion Batteries. Journal of the Electrochemical Society, 2020, 167, 090521.	1.3	6
66	On the Impact of Internal Cross-Linking and Connection Properties on the Current Distribution in Lithium-Ion Battery Modules. Journal of the Electrochemical Society, 2020, 167, 120542.	1.3	14
67	Impact of Electrode and Cell Design on Fast Charging Capabilities of Cylindrical Lithium-Ion Batteries. Journal of the Electrochemical Society, 2020, 167, 130505.	1.3	37
68	External and Local Short-Circuit Scenarios Applied to Silicon-Graphite/Nickel-Rich Pouch-Type Lithium-Ion Batteries. ECS Meeting Abstracts, 2020, MA2020-01, 465-465.	0.0	0
69	Data-Driven State of Health Prognostic Model Using a Global Vehicle Data-Set. ECS Meeting Abstracts, 2020, MA2020-02, 1614-1614.	0.0	0
70	Reversible Capacity Losses in LiFePO <sub>4</sub> / Graphite Cells. ECS Meeting Abstracts, 2020, MA2020-02, 636-636.	0.0	0
71	Advanced Thermal Conductivity Characterization with Implications for Thermal Control Strategies during Fast Charging. ECS Meeting Abstracts, 2020, MA2020-02, 630-630.	0.0	0
72	Enhancing the Performance of Lithium-Ion Batteries with Structured Electrodes. ECS Meeting Abstracts, 2020, MA2020-02, 625-625.	0.0	0

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73	Improved Path Resistance Adjustment As a Valuable Tool to Homogenize the Current Distribution within Interconnected Lithium-Ion-Battery Modules. ECS Meeting Abstracts, 2020, MA2020-02, 1597-1597.	0.0	0
74	Neutrons for Battery Research (in-situ and operando studies): An Overview. ECS Meeting Abstracts, 2020, MA2020-02, 3173-3173.	0.0	0
75	Suitability of physicochemical models for embedded systems regarding a nickel-rich, silicon-graphite lithium-ion battery. Journal of Power Sources, 2019, 436, 226834.	4.0	21
76	Investigating Stationary Storage Applications and their Impact on Battery Aging. , 2019, , .		4
77	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
78	A Novel Method for High Frequency Battery Impedance Measurements. , 2019, , .		17
79	Structural dynamics of lithium-ion cells â€“ Part I: Method, test bench validation and investigation of lithium-ion pouch cells. Journal of Energy Storage, 2019, 26, 100916.	3.9	10
80	Cell-to-cell variation of calendar aging and reversible self-discharge in 18650 nickel-rich, siliconâ€“graphite lithium-ion cells. Journal of Energy Storage, 2019, 26, 100900.	3.9	42
81	Localized Swelling Inhomogeneity Detection in Lithium Ion Cells Using Multi-Dimensional Laser Scanning. Journal of the Electrochemical Society, 2019, 166, A27-A34.	1.3	21
82	Design and analysis of an agingâ€“aware energy management system for islanded grids using mixedâ€“integer quadratic programming. International Journal of Energy Research, 2019, 43, 4127-4147.	2.2	26
83	Analysis of Dissipative Losses in Modular Reconfigurable Energy Storage Systems Using SystemC TLM and SystemC-AMS. ACM Transactions on Design Automation of Electronic Systems, 2019, 24, 1-33.	1.9	2
84	Ageing and Efficiency Aware Battery Dispatch for Arbitrage Markets Using Mixed Integer Linear Programming. Energies, 2019, 12, 999.	1.6	29
85	Reversible self-discharge and calendar aging of 18650 nickel-rich, silicon-graphite lithium-ion cells. Journal of Power Sources, 2019, 425, 217-226.	4.0	79
86	A Techno-Economic Analysis of Vehicle-to-Building: Battery Degradation and Efficiency Analysis in the Context of Coordinated Electric Vehicle Charging. Energies, 2019, 12, 955.	1.6	22
87	Linear and Nonlinear Aging of Lithium-Ion Cells Investigated by Electrochemical Analysis and In-Situ Neutron Diffraction. Journal of the Electrochemical Society, 2019, 166, A3908-A3917.	1.3	29
88	SimSES Multi-Use: A simulation tool for multiple storage system applications. , 2019, , .		6
89	Modeling of lithium plating and lithium stripping in lithium-ion batteries. Journal of Power Sources, 2019, 414, 41-47.	4.0	89
90	Quasi-Isothermal External Short Circuit Tests Applied to Lithium-Ion Cells: Part II. Modeling and Simulation. Journal of the Electrochemical Society, 2019, 166, A151-A177.	1.3	27

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91	Modeling and simulation of inhomogeneities in a 18650 nickel-rich, silicon-graphite lithium-ion cell during fast charging. <i>Journal of Power Sources</i> , 2019, 412, 204-223.	4.0	165
92	Aging in 18650-type Li-ion cells examined with neutron diffraction, electrochemical analysis and physico-chemical modeling. <i>Journal of Energy Storage</i> , 2018, 17, 383-394.	3.9	28
93	Comprehensive Modeling of Temperature-Dependent Degradation Mechanisms in Lithium Iron Phosphate Batteries. <i>Journal of the Electrochemical Society</i> , 2018, 165, A181-A193.	1.3	135
94	Thermal Analysis of $\text{LiNi}_{0.4}\text{Co}_{0.2}\text{Mn}_{0.4}\text{O}_2$ /Mesocarbon Microbeads Cells and Electrodes: State-of-Charge and State-of-Health Influences on Reaction Kinetics. <i>Journal of the Electrochemical Society</i> , 2018, 165, A104-A117.	1.3	18
95	Entropy-induced temperature variation as a new indicator for state of health estimation of lithium-ion cells. <i>Electrochimica Acta</i> , 2018, 276, 370-376.	2.6	30
96	State estimation of lithium-ion cells using a physicochemical model based extended Kalman filter. <i>Applied Energy</i> , 2018, 223, 103-123.	5.1	63
97	Analysis and modeling of calendar aging of a commercial $\text{LiFePO}_4$ /graphite cell. <i>Journal of Energy Storage</i> , 2018, 17, 153-169.	3.9	136
98	Energy efficiency evaluation of a stationary lithium-ion battery container storage system via electro-thermal modeling and detailed component analysis. <i>Applied Energy</i> , 2018, 210, 211-229.	5.1	101
99	Capacity Recovery Effect in Lithium Sulfur Batteries for Electric Vehicles. <i>World Electric Vehicle Journal</i> , 2018, 9, 34.	1.6	8
100	Energy efficiency evaluation of grid connection scenarios for stationary battery energy storage systems. <i>Energy Procedia</i> , 2018, 155, 77-101.	1.8	25
101	Evaluating frequency regulation operated on two stationary energy systems with batteries from electric vehicles. <i>Energy Procedia</i> , 2018, 155, 32-43.	1.8	10
102	Multi-Use of Stationary Battery Storage Systems with Blockchain Based Markets. <i>Energy Procedia</i> , 2018, 155, 3-16.	1.8	15
103	Dynamics of current distribution within battery cells connected in parallel. <i>Journal of Energy Storage</i> , 2018, 20, 120-133.	3.9	27
104	Marginal Costs of Battery System Operation in Energy Arbitrage Based on Energy Losses and Cell Degradation. , 2018, , .		8
105	Quasi-Isothermal External Short Circuit Tests Applied to Lithium-Ion Cells: Part I. Measurements. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3427-A3448.	1.3	22
106	Linear Battery Aging Model for Industrial Peak Shaving Applications. , 2018, , .		4
107	The Influence of Current Ripples on the Lifetime of Lithium-Ion Batteries. <i>IEEE Transactions on Vehicular Technology</i> , 2018, 67, 10438-10445.	3.9	74
108	A PSO-Optimized Fuzzy Logic Control-Based Charging Method for Individual Household Battery Storage Systems within a Community. <i>Energies</i> , 2018, 11, 469.	1.6	23

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109	Influence of Cell-to-Cell Variations on the Inhomogeneity of Lithium-Ion Battery Modules. Journal of the Electrochemical Society, 2018, 165, A2587-A2607.	1.3	65
110	Uncertainties in entropy due to temperature path dependent voltage hysteresis in Li-ion cells. Journal of Power Sources, 2018, 395, 179-184.	4.0	16
111	Increasing the Discharge Rate Capability of Lithium-Ion Cells with Laser-Structured Graphite Anodes: Modeling and Simulation. Journal of the Electrochemical Society, 2018, 165, A1563-A1573.	1.3	68
112	Analysing the driving load on electric vehicles using unsupervised segmentation models as enabler to determine the time of battery replacement and assess driving mileage. , 2018, , .		2
113	A Computationally Efficient Multi-Scale Model for Lithium-Ion Cells. Journal of the Electrochemical Society, 2018, 165, A2374-A2388.	1.3	27
114	Power Flow Distribution Strategy for Improved Power Electronics Energy Efficiency in Battery Storage Systems: Development and Implementation in a Utility-Scale System. Energies, 2018, 11, 533.	1.6	25
115	In Situ Neutron Diffraction Study of Lithiation Gradients in Graphite Anodes during Discharge and Relaxation. Journal of the Electrochemical Society, 2018, 165, A1846-A1856.	1.3	20
116	Optimum fast charging of lithium-ion pouch cells based on local volume expansion criteria. Journal of Power Sources, 2018, 393, 152-160.	4.0	75
117	Simulation and Measurement of the Current Density Distribution in Lithium-Ion Batteries by a Multi-Tab Cell Approach. Journal of the Electrochemical Society, 2017, 164, A6324-A6333.	1.3	63
118	Electrical resistances of soldered battery cell connections. Journal of Energy Storage, 2017, 12, 45-54.	3.9	34
119	Charging Strategy for a Residential Battery Storage System using Fuzzy Logic Controller. , 2017, , 182-189.		0
120	Reducing Inhomogeneous Current Density Distribution in Graphite Electrodes by Design Variation. Journal of the Electrochemical Society, 2017, 164, E3105-E3113.	1.3	14
121	Non-Destructive Detection of Local Aging in Lithium-Ion Pouch Cells by Multi-Directional Laser Scanning. Journal of the Electrochemical Society, 2017, 164, A1342-A1351.	1.3	26
122	Impact of Temperature and Discharge Rate on the Aging of a $\text{LiCoO}_2/\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ Lithium-Ion Pouch Cell. Journal of the Electrochemical Society, 2017, 164, A1438-A1445.	1.3	79
123	Influence of change in open circuit voltage on the state of charge estimation with an extended Kalman filter. Journal of Energy Storage, 2017, 12, 149-156.	3.9	38
124	Multi-phase formation induced by kinetic limitations in graphite-based lithium-ion cells: Analyzing the effects on dilation and voltage response. Journal of Energy Storage, 2017, 10, 1-10.	3.9	34
125	Measurements of lithium-ion concentration equilibration processes inside graphite electrodes. Journal of Power Sources, 2017, 342, 638-643.	4.0	10
126	An extended polarization model to study the influence of current collector geometry of large-format lithium-ion pouch cells. Journal of Power Sources, 2017, 342, 666-676.	4.0	47



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127	Lithium plating in lithium-ion batteries investigated by voltage relaxation and in situ neutron diffraction. <i>Journal of Power Sources</i> , 2017, 342, 17-23.	4.0	205
128	Impact of Dynamic Driving Loads and Regenerative Braking on the Aging of Lithium-Ion Batteries in Electric Vehicles. <i>Journal of the Electrochemical Society</i> , 2017, 164, A3081-A3092.	1.3	38
129	Cycling capacity recovery effect: A coulombic efficiency and post-mortem study. <i>Journal of Power Sources</i> , 2017, 365, 327-338.	4.0	56
130	A SEI Modeling Approach Distinguishing between Capacity and Power Fade. <i>Journal of the Electrochemical Society</i> , 2017, 164, E287-E294.	1.3	55
131	Experimental investigation of parametric cell-to-cell variation and correlation based on 1100 commercial lithium-ion cells. <i>Journal of Energy Storage</i> , 2017, 14, 224-243.	3.9	135
132	Inhomogeneity and relaxation phenomena in the graphite anode of a lithium-ion battery probed by in situ neutron diffraction. <i>Journal of Power Sources</i> , 2017, 361, 54-60.	4.0	34
133	Model-Based Dispatch Strategies for Lithium-Ion Battery Energy Storage Applied to Pay-as-Bid Markets for Secondary Reserve. <i>IEEE Transactions on Power Systems</i> , 2017, 32, 2724-2734.	4.6	56
134	Calendar Aging of NCA Lithium-Ion Batteries Investigated by Differential Voltage Analysis and Coulomb Tracking. <i>Journal of the Electrochemical Society</i> , 2017, 164, A6066-A6074.	1.3	136
135	Evaluation of grid-level adaptability for stationary battery energy storage system applications in Europe. <i>Journal of Energy Storage</i> , 2017, 9, 1-11.	3.9	73
136	Comprehensive Modeling of Temperature-Dependent Degradation Mechanisms in Lithium Iron Phosphate Batteries. <i>ECS Transactions</i> , 2017, 80, 147-170.	0.3	9
137	Cuckoo-search optimized fuzzy-logic control of stationary battery storage systems. , 2017, , .		2
138	Economic Optimization of Component Sizing for Residential Battery Storage Systems. <i>Energies</i> , 2017, 10, 835.	1.6	132
139	Lithium-Ion Battery Storage for the Grid – A Review of Stationary Battery Storage System Design Tailored for Applications in Modern Power Grids. <i>Energies</i> , 2017, 10, 2107.	1.6	480
140	Realising Serial Hybrid Energy Storage Systems (sHESS) by Implementing Switching Circuits on Battery Cell Level. <i>World Electric Vehicle Journal</i> , 2016, 8, 371-378.	1.6	1
141	Economics of Residential Photovoltaic Battery Systems in Germany: The Case of Tesla’s Powerwall. <i>Batteries</i> , 2016, 2, 14.	2.1	115
142	Fundamentals of Using Battery Energy Storage Systems to Provide Primary Control Reserves in Germany. <i>Batteries</i> , 2016, 2, 29.	2.1	81
143	Calendar Aging of Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1872-A1880.	1.3	367
144	Sustainable power supply options for large islands – A case study for Belitung Island. , 2016, , .		2

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145	eCARus " Analysis of an established student hands-on project. , 2016, , .		1
146	Charging protocols for lithium-ion batteries and their impact on cycle life"An experimental study with different 18650 high-power cells. Journal of Energy Storage, 2016, 6, 125-141.	3.9	286
147	A New Method to Model the Thickness Change of a Commercial Pouch Cell during Discharge. Journal of the Electrochemical Society, 2016, 163, A1566-A1575.	1.3	75
148	Ageing of lithium-ion battery modules with dissipative balancing compared with single-cell ageing. Journal of Energy Storage, 2016, 6, 142-152.	3.9	79
149	Temperature dependency of state of charge inhomogeneities and their equalization in cylindrical lithium-ion cells. Journal of Power Sources, 2016, 329, 546-552.	4.0	21
150	Multi-directional laser scanning as innovative method to detect local cell damage during fast charging of lithium-ion cells. Journal of Energy Storage, 2016, 8, 1-5.	3.9	65
151	Review of system topologies for hybrid electrical energy storage systems. Journal of Energy Storage, 2016, 8, 78-90.	3.9	107
152	Current distribution within parallel-connected battery cells. Journal of Power Sources, 2016, 334, 202-212.	4.0	108
153	Inhomogeneities in Large Format Lithium Ion Cells: A Study by Battery Modelling Approach. ECS Transactions, 2016, 73, 201-212.	0.3	13
154	Detachable electrical connection of battery cells by press contacts. Journal of Energy Storage, 2016, 8, 69-77.	3.9	26
155	Multi-Dimensional Modeling of the Influence of Cell Design on Temperature, Displacement and Stress Inhomogeneity in Large-Format Lithium-Ion Cells. Journal of the Electrochemical Society, 2016, 163, A3099-A3110.	1.3	45
156	Electro-Thermal Modeling of Large Format Lithium-Ion Pouch Cells: A Cell Temperature Dependent Linear Polarization Expression. Journal of the Electrochemical Society, 2016, 163, A3046-A3062.	1.3	24
157	A comparative study and review of different Kalman filters by applying an enhanced validation method. Journal of Energy Storage, 2016, 8, 142-159.	3.9	83
158	Monitoring and safety tests of batteries: From state of charge (SOC) and health (SOH) to misuse, abuse and crash. AIP Conference Proceedings, 2016, , .	0.3	6
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