Dirk U Sauer

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316	12,538	58	102
papers	citations	h-index	g-index
345	15,914	7	7.17
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
316	Critical review of the methods for monitoring of lithium-ion batteries in electric and hybrid vehicles. *Journal of Power Sources*, **2014**, 258, 321-339	8.9	594
315	Experimental investigation of the lithium-ion battery impedance characteristic at various conditions and aging states and its influence on the application. *Applied Energy*, **2013**, 102, 885-897	10.7	546
314	Calendar and cycle life study of Li(NiMnCo)O2-based 18650 lithium-ion batteries. *Journal of Power Sources*, **2014**, 248, 839-851	8.9	413
313	Characterization of high-power lithium-ion batteries by electrochemical impedance spectroscopy. I. Experimental investigation. *Journal of Power Sources*, **2011**, 196, 5334-5341	8.9	394
312	A holistic aging model for Li(NiMnCo)O2 based 18650 lithium-ion batteries. *Journal of Power Sources*, **2014**, 257, 325-334	8.9	343
311	Development of a lifetime prediction model for lithium-ion batteries based on extended accelerated aging test data. *Journal of Power Sources*, **2012**, 215, 248-257	8.9	329
310	Characterization of high-power lithium-ion batteries by electrochemical impedance spectroscopy. II: Modelling. *Journal of Power Sources*, **2011**, 196, 5349-5356	8.9	298
309	Dynamic electric behavior and open-circuit-voltage modeling of LiFePO4-based lithium ion secondary batteries. *Journal of Power Sources*, **2011**, 196, 331-336	8.9	236
308	Advanced mathematical methods of SOC and SOH estimation for lithium-ion batteries. *Journal of Power Sources*, **2013**, 224, 20-27	8.9	234
307	Critical review of on-board capacity estimation techniques for lithium-ion batteries in electric and hybrid electric vehicles. *Journal of Power Sources*, **2015**, 281, 114-130	8.9	229
306	Optimization of an off-grid hybrid PV–Wind–Diesel system with different battery technologies using genetic algorithm. *Solar Energy*, **2013**, 97, 460-473	6.8	207
305	Ageing behaviour of electrochemical double layer capacitors. *Journal of Power Sources*, **2007**, 172, 468-475	8.9	202
304	Production caused variation in capacity aging trend and correlation to initial cell performance. *Journal of Power Sources*, **2014**, 247, 332-338	8.9	200
303	Comparison of different approaches for lifetime prediction of electrochemical systems—Using lead-acid batteries as example. *Journal of Power Sources*, **2008**, 176, 534-546	8.9	181
302	Model prediction for ranking lead-acid batteries according to expected lifetime in renewable energy systems and autonomous power-supply systems. *Journal of Power Sources*, **2007**, 168, 66-78	8.9	178
301	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	8.9	168
300	Modelling the effects of charge redistribution during self-discharge of supercapacitors. *Electrochimica Acta*, **2010**, 55, 7516-7523	6.7	159

299	Cycle and calendar life study of a graphite|LiNi1/3Mn1/3Co1/3O2 Li-ion high energy system. Part A: Full cell characterization. *Journal of Power Sources*, **2013**, 239, 572-583	8.9	146
298	Optimization of self-consumption and techno-economic analysis of PV-battery systems in commercial applications. *Applied Energy*, **2016**, 168, 171-178	10.7	144
297	Analysis of the maximal possible grid relief from PV-peak-power impacts by using storage systems for increased self-consumption. *Applied Energy*, **2015**, 137, 567-575	10.7	143
296	Modeling mechanical degradation in lithium ion batteries during cycling: Solid electrolyte interphase fracture. *Journal of Power Sources*, **2015**, 300, 112-122	8.9	139
295	Influence of plug-in hybrid electric vehicle charging strategies on charging and battery degradation costs. *Energy Policy*, **2012**, 46, 511-519	7.2	133
294	A review of current automotive battery technology and future prospects. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, **2013**, 227, 761-776	1.4	127
293	Adaptive estimation of the electromotive force of the lithium-ion battery after current interruption for an accurate state-of-charge and capacity determination. *Applied Energy*, **2013**, 111, 416-427	10.7	126
292	Detailed analysis of the self-discharge of supercapacitors. *Journal of Power Sources*, **2011**, 196, 573-579	8.9	126
291	Operation conditions of batteries in PV applications. *Solar Energy*, **2004**, 76, 759-769	6.8	122
290	Electric bus fleet size and mix problem with optimization of charging infrastructure. *Applied Energy*, **2018**, 211, 282-295	10.7	119
289	Heat generation in double layer capacitors. *Journal of Power Sources*, **2006**, 160, 765-772	8.9	113
288	Parameterization of a Physico-Chemical Model of a Lithium-Ion Battery. *Journal of the Electrochemical Society*, **2015**, 162, A1836-A1848	3.9	110
287	Fast Charging Battery Buses for the Electrification of Urban Public Transport□A Feasibility Study Focusing on Charging Infrastructure and Energy Storage Requirements. *Energies*, **2015**, 8, 4587-4606	3.1	110
286	On-line adaptive battery impedance parameter and state estimation considering physical principles in reduced order equivalent circuit battery models. *Journal of Power Sources*, **2014**, 260, 276-291	8.9	109
285	Comparative study of a structured neural network and an extended Kalman filter for state of health determination of lithium-ion batteries in hybrid electricvehicles. *Engineering Applications of Artificial Intelligence*, **2013**, 26, 951-961	7.2	107
284	Ageing behaviour of electrochemical double layer capacitors: Part II. Lifetime simulation model for dynamic applications. *Journal of Power Sources*, **2007**, 173, 626-632	8.9	105
283	A comprehensive review of on-board State-of-Available-Power prediction techniques for lithium-ion batteries in electric vehicles. *Journal of Power Sources*, **2016**, 329, 123-137	8.9	102
282	Digital twin for battery systems: Cloud battery management system with online state-of-charge and state-of-health estimation. *Journal of Energy Storage*, **2020**, 30, 101557	7.8	100

281	Large-scale integration of renewable energies and impact on storage demand in a European renewable power system of 2050Sensitivity study. *Journal of Energy Storage*, **2016**, 6, 1-10	7.8	95
280	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. *IEEE Transactions on Sustainable Energy*, **2014**, 5, 90-101	8.2	91
279	Systematic aging of commercial LiFePO4|Graphite cylindrical cells including a theory explaining rise of capacity during aging. *Journal of Power Sources*, **2017**, 345, 254-263	8.9	90
278	Development of a voltage-behavior model for NiMH batteries using an impedance-based modeling concept. *Journal of Power Sources*, **2008**, 175, 635-643	8.9	90
277	On-line adaptive battery impedance parameter and state estimation considering physical principles in reduced order equivalent circuit battery models part 2. Parameter and state estimation. *Journal of Power Sources*, **2014**, 262, 457-482	8.9	89
276	Reliable State Estimation of Multicell Lithium-Ion Battery Systems. *IEEE Transactions on Energy Conversion*, **2011**, 26, 737-743	5.4	84
275	Influence of operational condition on lithium plating for commercial lithium-ion batteries □ Electrochemical experiments and post-mortem-analysis. *Applied Energy*, **2017**, 206, 934-946	10.7	81
274	Battery Sizing for Serial Plug-in Hybrid Vehicles: A Model-Based Economic Analysis for Germany. *SSRN Electronic Journal*,	1	79
273	The development of stationary battery storage systems in Germany □A market review. *Journal of Energy Storage*, **2020**, 29, 101153	7.8	75
272	Influence of the vehicle-to-grid strategy on the aging behavior of lithium battery electric vehicles. *Applied Energy*, **2015**, 137, 899-912	10.7	75
271	A study on the dependency of the open-circuit voltage on temperature and actual aging state of lithium-ion batteries. *Journal of Power Sources*, **2017**, 347, 1-13	8.9	74
270	. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 3751-3761	11.9	73
269	Comparative study of reduced order equivalent circuit models for on-board state-of-available-power prediction of lithium-ion batteries in electric vehicles. *Applied Energy*, **2018**, 225, 1102-1122	10.7	73
268	Battery Management System Hardware Concepts: An Overview. *Applied Sciences (Switzerland)*, **2018**, 8, 534	2.6	71
267	Optimal Allocation and Capacity of Energy Storage Systems in a Future European Power System with 100% Renewable Energy Generation. *Energy Procedia*, **2014**, 46, 40-47	2.3	69
266	Operating conditions of batteries in off-grid renewable energy systems. *Solar Energy*, **2007**, 81, 1409-1425	6.8	66
265	Adaptive on-line prediction of the available power of lithium-ion batteries. *Journal of Power Sources*, **2013**, 242, 548-559	8.9	65
264	Irreversible calendar aging and quantification of the reversible capacity loss caused by anode overhang. *Journal of Energy Storage*, **2018**, 18, 149-159	7.8	64

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262	Differential voltage analysis as a tool for analyzing inhomogeneous aging: A case study for LiFePO4|Graphite cylindrical cells. *Journal of Power Sources*, **2017**, 368, 57-67	8.9	63
261	Parameterization of a Physico-Chemical Model of a Lithium-Ion Battery. *Journal of the Electrochemical Society*, **2015**, 162, A1849-A1857	3.9	61
260	Combined local current distribution measurements and high resolution neutron radiography of operating Direct Methanol Fuel Cells. *Electrochemistry Communications*, **2009**, 11, 1606-1609	5.1	60
259	Online capacity estimation of lithium-ion batteries with deep long short-term memory networks. *Journal of Power Sources*, **2021**, 482, 228863	8.9	59
258	A critical overview of definitions and determination techniques of the internal resistance using lithium-ion, lead-acid, nickel metal-hydride batteries and electrochemical double-layer capacitors as examples. *Journal of Power Sources*, **2015**, 296, 365-376	8.9	58
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250	Comparison of different operation strategies for PV battery home storage systems including forecast-based operation strategies. *Applied Energy*, **2018**, 229, 884-899	10.7	48
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243	Charging performance of automotive batteries�An underestimated factor influencing lifetime and reliable battery operation. *Journal of Power Sources*, **2007**, 168, 22-30	8.9	42
242	Harmonic analysis for identification of nonlinearities in impedance spectroscopy. *Electrochimica Acta*, **2008**, 53, 7367-7374	6.7	42
241	Comparison of off-grid power supply systems using lead-acid and lithium-ion batteries. *Solar Energy* , **2018**, 162, 140-152	6.8	41
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236	Measurement of the current distribution in a direct methanol fuel cell�Confirmation of parallel galvanic and electrolytic operation within one cell. *Journal of Power Sources*, **2008**, 176, 477-483	8.9	36
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226	Enhancing Battery Lifetime in PV Battery Home Storage System Using Forecast Based Operating Strategies. *Energy Procedia*, **2016**, 99, 80-88	2.3	32
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220	Introduction of capacity difference analysis (CDA) for analyzing lateral lithium-ion flow to determine the state of covering layer evolution. *Journal of Power Sources*, **2017**, 354, 157-166	8.9	29
219	Simulation of the current distribution in lead-acid batteries to investigate the dynamic charge acceptance in flooded SLI batteries. *Journal of Power Sources*, **2009**, 191, 42-50	8.9	29
218	Analysis of the performance parameters of lead/acid batteries in photovoltaic systems. *Journal of Power Sources*, **1997**, 64, 197-201	8.9	29
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213	Large-scale Integration of Renewable Energies and Impact on Storage Demand in a European Renewable Power System of 2050. *Energy Procedia*, **2015**, 73, 145-153	2.3	27
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208	Dynamic charge acceptance of lead□cid batteries: Comparison of methods for conditioning and testing. *Journal of Power Sources*, **2012**, 207, 30-36	8.9	26
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206	Study on power and energy demand for sizing the energy storage systems for electrified local public transport buses **2012**,		26
205	Modelling of local conditions in flooded lead/acid batteries in photovoltaic systems. *Journal of Power Sources*, **1997**, 64, 181-187	8.9	26
204	Lithium titanate oxide battery cells for high-power automotive applications □Electro-thermal properties, aging behavior and cost considerations. *Journal of Energy Storage*, **2020**, 31, 101656	7.8	26
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198	Application-specific parameterization of reduced order equivalent circuit battery models for improved accuracy at dynamic load. *Measurement: Journal of the International Measurement Confederation*, **2013**, 46, 4085-4093	4.6	24
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196	Impedance-based overcharging and gassing model for VRLA/AGM batteries. *Journal of Power Sources*, **2006**, 158, 953-963	8.9	24
195	Scientific Measuring and Evaluation Program for Photovoltaic Battery Systems(WMEP PV-Speicher). *Energy Procedia*, **2015**, 73, 200-207	2.3	23
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188	Elucidation and Comparison of the Effect of LiTFSI and LiNO Salts on Discharge Chemistry in Nonaqueous Li-O Batteries. *ACS Applied Materials &amp; Interfaces*, **2017**, 9, 19319-19325	9.5	21
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186	Market and technology development of PV home storage systems in Germany. *Journal of Energy Storage*, **2019**, 23, 416-424	7.8	21
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182	Wayside energy recovery systems in DC urban railway grids. *ETransportation*, **2019**, 1, 100001	12.7	18
181	From accelerated aging tests to a lifetime prediction model: Analyzing lithium-ion batteries **2013**,		18
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179	Dimensioning and Optimization of Hybrid Li-Ion Battery Systems for EVs. *World Electric Vehicle Journal*, **2018**, 9, 19	2.5	17
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172	An Algorithm for an Online Electrochemical Impedance Spectroscopy and Battery Parameter Estimation: Development, Verification and Validation. *Journal of Energy Storage*, **2020**, 30, 101517	7.8	16
171	Representative, empirical, real-world charging station usage characteristics and data in Germany. *ETransportation*, **2020**, 6, 100079	12.7	16
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165	Experimental evaluation of the performance of the sodium metal chloride battery below usual operating temperatures. *Journal of Power Sources*, **2014**, 251, 137-144	8.9	15
164	Influence of measurement procedure on quality of impedance spectra on lead-acid batteries. *Journal of Power Sources*, **2011**, 196, 10415-10423	8.9	15
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158	The development of stationary battery storage systems in Germany—status 2020. *Journal of Energy Storage*, **2021**, 33, 101982	7.8	14
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154	Geometrical Inhomogeneities as Cause of Mechanical Failure in Commercial 18650 Lithium Ion Cells. *Journal of the Electrochemical Society*, **2019**, 166, A3745-A3752	3.9	13
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152	Diversion of Aging of Battery Cells in Automotive Systems **2014**,		13
151	Evaluation of the effects of frequency restoration reserves market participation with photovoltaic battery energy storage systems and power-to-heat coupling. *Applied Energy*, **2020**, 260, 114186	10.7	13
150	Identification of Lithium Plating in Lithium-Ion Batteries by Electrical and Optical Methods. *Journal of the Electrochemical Society*, **2020**, 167, 090536	3.9	12
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147	Optimized energy management for fuelcell-supercap hybrid electric vehicles		12
146	Temperature behaviour: Comparison for nine storage technologies. *Journal of Power Sources*, **2006**, 154, 545-549	8.9	12
145	The Development of Jelly Roll Deformation in 18650 Lithium-Ion Batteries at Low State of Charge. *Journal of the Electrochemical Society*, **2020**, 167, 120502	3.9	12
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139	Automatic device for continuous measurement of potential distribution and acid stratification in flooded lead-acid batteries. *Journal of Power Sources*, **2013**, 221, 114-121	8.9	11
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