

Joeri Van Mierlo

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.

300
papers

9,189
citations

49
h-index

86
g-index

319
ext. papers

12,172
ext. citations

4.8
avg, IF

6.81
L-index

#	Paper	IF	Citations
300	Optimization and Analysis of Electric Vehicle Operation with Fast-Charging Technologies. <i>World Electric Vehicle Journal</i> , 2022 , 13, 20	2.5	2
299	Thermal Performance Improvement for Different Strategies of Battery Thermal Management Systems Combined with Jute-A Comparison Study. <i>Energies</i> , 2022 , 15, 873	3.1	1
298	Development, retainment, and assessment of the graphite-electrolyte interphase in Li-ion batteries regarding the functionality of SEI-forming additives.. <i>IScience</i> , 2022 , 25, 103862	6.1	3
297	Effects analysis on energy density optimization and thermal efficiency enhancement of the air-cooled Li-ion battery modules. <i>Journal of Energy Storage</i> , 2022 , 48, 103847	7.8	2
296	Fast Charging Impact on the Lithium-Ion Batteries-Lifetime and Cost-Effective Battery Sizing in Heavy-Duty Electric Vehicles Applications. <i>Energies</i> , 2022 , 15, 1278	3.1	4
295	A comprehensive review of stationary energy storage devices for large scale renewable energy sources grid integration. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 159, 112213	16.2	26
294	A novel methodology to determine the specific heat capacity of lithium-ion batteries. <i>Journal of Power Sources</i> , 2022 , 520, 230869	8.9	2
293	Developing an online data-driven approach for prognostics and health management of lithium-ion batteries. <i>Applied Energy</i> , 2022 , 308, 118348	10.7	3
292	Impact on the Power Grid Caused via Ultra-Fast Charging Technologies of the Electric Buses Fleet. <i>Energies</i> , 2022 , 15, 1424	3.1	2
291	An Experimental Study on Thermal Performance of Graphite-Based Phase-Change Materials for High-Power Batteries. <i>Energies</i> , 2022 , 15, 2515	3.1	2
290	Novel design optimization for passive cooling PCM assisted battery thermal management system in electric vehicles. <i>Case Studies in Thermal Engineering</i> , 2022 , 32, 101896	5.6	1
289	Advanced hybrid thermal management system for LTO battery module under fast charging. <i>Case Studies in Thermal Engineering</i> , 2022 , 33, 101938	5.6	3
288	Development of a lifetime model for large format nickel-manganese-cobalt oxide-based lithium-ion cell validated using a real-life profile. <i>Journal of Energy Storage</i> , 2022 , 50, 104289	7.8	0
287	Novel Hybrid Thermal Management System for High-Power Lithium-Ion Module for Electric Vehicles: Fast Charging Applications. <i>World Electric Vehicle Journal</i> , 2022 , 13, 86	2.5	2
286	A Comprehensive Review of Lithium-Ion Capacitor Technology: Theory, Development, Modeling, Thermal Management Systems, and Applications. <i>Molecules</i> , 2022 , 27, 3119	4.8	3
285	A Strategic Pathway from Cell to Pack-Level Battery Lifetime Model Development. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 4781	2.6	0
284	Experimental and numerical thermal analysis of a lithium-ion battery module based on a novel liquid cooling plate embedded with phase change material. <i>Journal of Energy Storage</i> , 2022 , 50, 104673	7.8	5

283	Optimization of 1D/3D Electro-Thermal Model for Liquid-Cooled Lithium-Ion Capacitor Module in High Power Applications. <i>Electricity</i> , 2021 , 2, 503-523	1	5
282	Effects of Structural Substituents on the Electrochemical Decomposition of Carbonyl Derivatives and Formation of the Solid-Electrolyte Interphase in Lithium-Ion Batteries. <i>Energies</i> , 2021 , 14, 7352	3.1	2
281	Voltage Vector Redundancy Exploitation for Battery Balancing in Three-Phase CHB-Based Modular Energy Storage Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	0
280	Performance Evaluation of Grid-Connected Wind Turbine Generators. <i>Energies</i> , 2021 , 14, 6807	3.1	1
279	Twin-model framework development for a comprehensive battery lifetime prediction validated with a realistic driving profile. <i>Energy Science and Engineering</i> , 2021 , 9, 2191	3.4	6
278	A New Concept of Air Cooling and Heat Pipe for Electric Vehicles in Fast Discharging. <i>Energies</i> , 2021 , 14, 6477	3.1	5
277	High-Performance Amorphous Carbon Coated LiNi _{0.6} Mn _{0.2} Co _{0.2} O ₂ Cathode Material with Improved Capacity Retention for Lithium-Ion Batteries. <i>Batteries</i> , 2021 , 7, 69	5.7	0
276	A Novel Air-Cooled Thermal Management Approach towards High-Power Lithium-Ion Capacitor Module for Electric Vehicles. <i>Energies</i> , 2021 , 14, 7150	3.1	5
275	A novel liquid cooling plate concept for thermal management of lithium-ion batteries in electric vehicles. <i>Energy Conversion and Management</i> , 2021 , 231, 113862	10.6	52
274	On Analytical Modeling of the Air Gap Field Modulation in the Brushless Doubly Fed Reluctance Machine. <i>Energies</i> , 2021 , 14, 2388	3.1	2
273	Lithium-Ion Capacitor Lifetime Extension through an Optimal Thermal Management System for Smart Grid Applications. <i>Energies</i> , 2021 , 14, 2907	3.1	17
272	Analysis of the dynamics of a slider-crank mechanism locally actuated with an act-and-wait controller. <i>Mechanism and Machine Theory</i> , 2021 , 159, 104253	4	3
271	Effect analysis on performance enhancement of a novel and environmental evaporative cooling system for lithium-ion battery applications. <i>Journal of Energy Storage</i> , 2021 , 37, 102475	7.8	3
270	Impact of Relaxation Time on Electrochemical Impedance Spectroscopy Characterization of the Most Common Lithium Battery Technologies Experimental Study and Chemistry-Neutral Modeling. <i>World Electric Vehicle Journal</i> , 2021 , 12, 77	2.5	1
269	Comprehensive Passive Thermal Management Systems for Electric Vehicles. <i>Energies</i> , 2021 , 14, 3881	3.1	17
268	Novel thermal management methods to improve the performance of the Li-ion batteries in high discharge current applications. <i>Energy</i> , 2021 , 224, 120165	7.9	22
267	PCM assisted heat pipe cooling system for the thermal management of an LTO cell for high-current profiles. <i>Case Studies in Thermal Engineering</i> , 2021 , 25, 100920	5.6	29
266	Continuous modelling of cyclic ageing for lithium-ion batteries. <i>Energy</i> , 2021 , 215, 119079	7.9	8

265	Online health diagnosis of lithium-ion batteries based on nonlinear autoregressive neural network. <i>Applied Energy</i> , 2021 , 282, 116159	10.7	36
264	Reliability evaluation of Li-ion batteries for electric vehicles applications from the thermal perspectives 2021 , 563-587		7
263	A compact and optimized liquid-cooled thermal management system for high power lithium-ion capacitors. <i>Applied Thermal Engineering</i> , 2021 , 185, 116449	5.8	23
262	Heat pipe air-cooled thermal management system for lithium-ion batteries: High power applications. <i>Applied Thermal Engineering</i> , 2021 , 183, 116240	5.8	27
261	Experimental and numerical study on the thermal behavior of a large lithium-ion prismatic cell with natural air convection.. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	2
260	Beyond the State of the Art of Electric Vehicles: A Fact-Based Paper of the Current and Prospective Electric Vehicle Technologies. <i>World Electric Vehicle Journal</i> , 2021 , 12, 20	2.5	20
259	Battery lifetime prediction and performance assessment of different modeling approaches. <i>IScience</i> , 2021 , 24, 102060	6.1	16
258	Battery cycle life study through relaxation and forecasting the lifetime via machine learning. <i>Journal of Energy Storage</i> , 2021 , 40, 102726	7.8	6
257	Techno-economic analysis of lithium-ion and lead-acid batteries in stationary energy storage application. <i>Journal of Energy Storage</i> , 2021 , 40, 102748	7.8	28
256	A hybrid thermal management system for high power lithium-ion capacitors combining heat pipe with phase change materials. <i>Heliyon</i> , 2021 , 7, e07773	3.6	13
255	State of Health Estimation of Lithium-Ion Batteries Based on Electrochemical Impedance Spectroscopy and Backpropagation Neural Network. <i>World Electric Vehicle Journal</i> , 2021 , 12, 156	2.5	1
254	Holistic 1D Electro-Thermal Model Coupled to 3D Thermal Model for Hybrid Passive Cooling System Analysis in Electric Vehicles. <i>Energies</i> , 2021 , 14, 5924	3.1	11
253	Slow and Fast Charging Solutions for Li-Ion Batteries of Electric Heavy-Duty Vehicles with Fleet Management Strategies. <i>Sustainability</i> , 2021 , 13, 10639	3.6	6
252	A comparative study between air cooling and liquid cooling thermal management systems for a high-energy lithium-ion battery module. <i>Applied Thermal Engineering</i> , 2021 , 198, 117503	5.8	22
251	Multi-objective particle swarm optimization and training of datasheet-based load dependent lithium-ion voltage models. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 133, 107312	5.1	3
250	3D Thermal and 1D Electro-Thermal Model Coupling Framework for Lithium-Ion Battery Cells in Automotive Industry Platforms 2021 ,		2
249	Model-Based Control System Design of Brushless Doubly Fed Reluctance Machines Using an Unscented Kalman Filter. <i>Energies</i> , 2021 , 14, 8222	3.1	1
248	A Review of Energy Storage Technologies Application Potentials in Renewable Energy Sources Grid Integration. <i>Sustainability</i> , 2020 , 12, 10511	3.6	38

247	A Techno-Economic Optimization and Performance Assessment of a 10 kWp Photovoltaic Grid-Connected System. <i>Sustainability</i> , 2020 , 12, 7648	3.6	6
246	A comprehensive review of future thermal management systems for battery-electrified vehicles. <i>Journal of Energy Storage</i> , 2020 , 31, 101551	7.8	63
245	Thermal performance enhancement of phase change material using aluminum-mesh grid foil for lithium-capacitor modules. <i>Journal of Energy Storage</i> , 2020 , 30, 101508	7.8	28
244	Multi-Fidelity Design Optimisation of a Solenoid-Driven Linear Compressor. <i>Actuators</i> , 2020 , 9, 38	2.4	3
243	Ensemble Gradient Boosted Tree for SoH Estimation Based on Diagnostic Features. <i>Energies</i> , 2020 , 13, 1262	3.1	13
242	Experimental Implementation of Power-Split Control Strategies in a Versatile Hardware-in-the-Loop Laboratory Test Bench for Hybrid Electric Vehicles Equipped with Electrical Variable Transmission. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4253	2.6	5
241	A high current electro-thermal model for lithium-ion capacitor technology in a wide temperature range. <i>Journal of Energy Storage</i> , 2020 , 31, 101624	7.8	9
240	Electro-aging model development of nickel-manganese-cobalt lithium-ion technology validated with light and heavy-duty real-life profiles. <i>Journal of Energy Storage</i> , 2020 , 28, 101265	7.8	27
239	Mechanical behavior of Silicon-Graphite pouch cells under external compressive load: Implications and opportunities for battery pack design. <i>Journal of Power Sources</i> , 2020 , 451, 227774	8.9	15
238	A new concept of thermal management system in Li-ion battery using air cooling and heat pipe for electric vehicles. <i>Applied Thermal Engineering</i> , 2020 , 174, 115280	5.8	77
237	A data-driven method based on recurrent neural network method for online capacity estimation of lithium-ion batteries 2020 ,		1
236	Aluminum Heat Sink Assisted Air-Cooling Thermal Management System for High Current Applications in Electric Vehicles 2020 ,		7
235	Battery voltage equalisation using single-phase cascaded H-bridge converters. <i>IET Power Electronics</i> , 2020 , 13, 4158-4167	2.2	1
234	Thorough state-of-the-art analysis of electric and hybrid vehicle powertrains: Topologies and integrated energy management strategies. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 119, 109596	16.2	132
233	Thermal modeling of a high-energy prismatic lithium-ion battery cell and module based on a new thermal characterization methodology. <i>Journal of Energy Storage</i> , 2020 , 32, 101707	7.8	19
232	Thermal management analysis using heat pipe in the high current discharging of lithium-ion battery in electric vehicles. <i>Journal of Energy Storage</i> , 2020 , 32, 101893	7.8	48
231	Cycle life and calendar life model for lithium-ion capacitor technology in a wide temperature range. <i>Journal of Energy Storage</i> , 2020 , 31, 101659	7.8	10
230	Generalized Small-Signal Averaged Switch Model Analysis of a WBG-based Interleaved DC/DC Buck Converter for Electric Vehicle Drivetrains 2020 ,		1

229	Investigation of Thermal Behavior of Large Lithium-Ion Prismatic Cell in Natural Air Convection 2020 ,		2
228	Investigation of a Passive Thermal Management System for Lithium-Ion Capacitors. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 10518-10524	6.8	18
227	Developing a real-time data-driven battery health diagnosis method, using time and frequency domain condition indicators. <i>Applied Energy</i> , 2019 , 255, 113813	10.7	31
226	Integrating renewable energy in smart grid system: Architecture, virtualization and analysis. <i>Sustainable Energy, Grids and Networks</i> , 2019 , 18, 100226	3.6	62
225	Concept of reliability and safety assessment of lithium-ion batteries in electric vehicles: Basics, progress, and challenges. <i>Applied Energy</i> , 2019 , 251, 113343	10.7	111
224	Electric Vehicle Battery Lifetime Extension through an Intelligent Double-Layer Control Scheme. <i>Energies</i> , 2019 , 12, 1525	3.1	3
223	A Comparison of Internal and External Preheat Methods for NMC Batteries. <i>World Electric Vehicle Journal</i> , 2019 , 10, 18	2.5	1
222	Three dimensional thermal model development and validation for lithium-ion capacitor module including air-cooling system. <i>Applied Thermal Engineering</i> , 2019 , 153, 264-274	5.8	24
221	Battery aging assessment and parametric study of lithium-ion batteries by means of a fractional differential model. <i>Electrochimica Acta</i> , 2019 , 305, 24-36	6.7	32
220	Analysis of the effect of applying external mechanical pressure on next generation silicon alloy lithium-ion cells. <i>Electrochimica Acta</i> , 2019 , 306, 387-395	6.7	22
219	Eco-Efficiency of a Lithium-Ion Battery for Electric Vehicles: Influence of Manufacturing Country and Commodity Prices on GHG Emissions and Costs. <i>Batteries</i> , 2019 , 5, 23	5.7	47
218	Optimal Design of Hybrid PV-Battery System in Residential Buildings: End-User Economics, and PV Penetration. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1022	2.6	11
217	Electrochemical impedance spectroscopy characterization and parameterization of lithium nickel manganese cobalt oxide pouch cells: dependency analysis of temperature and state of charge. <i>Ionics</i> , 2019 , 25, 111-123	2.7	23
216	A Three-dimensional thermal model for a commercial lithium-ion capacitor battery pack with non-uniform temperature distribution 2019 ,		7
215	Data-driven health estimation and lifetime prediction of lithium-ion batteries: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 113, 109254	16.2	276
214	Mechanistic modelling of cyclic voltage-capacity response for lithium-ion batteries. <i>Energy</i> , 2019 , 186, 115791	7.9	4
213	Safety and reliability evaluation for electric vehicles in modern power system networks 2019 , 389-404		3
212	State of Charge Equalization of Battery Modules Using Single-Phase Cascaded Multilevel Converters 2019 ,		1

211	Thermal Concept Design of MOSFET Power Modules in Inverter Subsystems for Electric Vehicles 2019,		15
210	How to Improve the Total Cost of Ownership of Electric Vehicles: An Analysis of the Light Commercial Vehicle Segment. <i>World Electric Vehicle Journal</i> , 2019 , 10, 90	2.5	16
209	Reliability Assessment of NMC Li-Ion Battery for Electric Vehicles Application 2019,		1
208	1D-Thermal Analysis and Electro-Thermal Modeling of Prismatic-Shape LTO and NMC Batteries 2019,		1
207	Comparative Study on Parameter Identification Methods for Dual-Polarization Lithium-Ion Equivalent Circuit Model. <i>Energies</i> , 2019 , 12, 4031	3.1	21
206	Insights into Cycling Aging of LiNi _{0.80} Co _{0.15} Al _{0.05} O ₂ Cathode Induced by Surface Inhomogeneity: A Post-mortem Analysis. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 30046-30058	3.8	8
205	An ECMS-based Approach for Energy Management of a HEV Equipped with an Electrical Variable Transmission 2019,		5
204	Design and Implementation of FPGA-based Digital Controllers for SiC Multiport Converter in Electric Vehicle Drivetrains 2019,		2
203	Status and future perspectives of reliability assessment for electric vehicles. <i>Reliability Engineering and System Safety</i> , 2019 , 183, 1-16	6.3	43
202	Lithium-Ion Batteries Health Prognosis Considering Aging Conditions. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 6834-6844	7.2	73
201	A review of the European passenger car regulations [Real driving emissions vs local air quality. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 86, 1-21	16.2	176
200	A combined thermo-electric resistance degradation model for nickel manganese cobalt oxide based lithium-ion cells. <i>Applied Thermal Engineering</i> , 2018 , 135, 54-65	5.8	12
199	Complete cell-level lithium-ion electrical ECM model for different chemistries (NMC, LFP, LTO) and temperatures (5 °C to 45 °C) [Optimized modelling techniques. <i>International Journal of Electrical Power and Energy Systems</i> , 2018 , 98, 133-146	5.1	31
198	Total Cost for Society: A persona-based analysis of electric and conventional vehicles. <i>Transportation Research, Part D: Transport and Environment</i> , 2018 , 64, 90-110	6.4	21
197	Fast-charging investigation on high-power and high-energy density pouch cells with 3D-thermal model development. <i>Applied Thermal Engineering</i> , 2018 , 128, 1282-1296	5.8	23
196	Hybrid Battery/Lithium-Ion Capacitor Energy Storage System for a Pure Electric Bus for an Urban Transportation Application. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1176	2.6	39
195	Improving policy support in city logistics: The contributions of a multi-actor multi-criteria analysis. <i>Case Studies on Transport Policy</i> , 2018 , 6, 554-563	2.7	24
194	Combining an Electrothermal and Impedance Aging Model to Investigate Thermal Degradation Caused by Fast Charging. <i>Energies</i> , 2018 , 11, 804	3.1	14

193	Modelling, Analysis and Performance Evaluation of Power Conversion Unit in G2V/V2G Application: A Review. <i>Energies</i> , 2018 , 11, 1082	3.1	18
192	On the Ageing of High Energy Lithium-Ion Batteries-Comprehensive Electrochemical Diffusivity Studies of Harvested Nickel Manganese Cobalt Electrodes. <i>Materials</i> , 2018 , 11,	3.5	19
191	Online Multi Chemistry SoC Estimation Technique Using Data Driven Battery Model Parameter Estimation. <i>World Electric Vehicle Journal</i> , 2018 , 9, 16	2.5	5
190	A novel state of charge and capacity estimation technique for electric vehicles connected to a smart grid based on inverse theory and a metaheuristic algorithm. <i>Energy</i> , 2018 , 155, 1047-1058	7.9	19
189	Impact of the Temperature in the Evaluation of Battery Performances During Long-Term Cycling: Characterisation and Modelling. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1364	2.6	3
188	Design Methodology, Modeling, and Comparative Study of Wireless Power Transfer Systems for Electric Vehicles. <i>Energies</i> , 2018 , 11, 1716	3.1	25
187	A quick on-line state of health estimation method for Li-ion battery with incremental capacity curves processed by Gaussian filter. <i>Journal of Power Sources</i> , 2018 , 373, 40-53	8.9	204
186	Thermal Effect of Fast-Charging Profiles on Lithium-Ion Batteries 2018 ,		4
185	Technical Assessment of Utilizing an Electrical Variable Transmission System in Hybrid Electric Vehicles 2018 ,		2
184	Electricity Generation in LCA of Electric Vehicles: A Review. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1384	2.6	41
183	Random forest regression for online capacity estimation of lithium-ion batteries. <i>Applied Energy</i> , 2018 , 232, 197-210	10.7	145
182	Battery Aging Prediction Using Input-Time-Delayed Based on an Adaptive Neuro-Fuzzy Inference System and a Group Method of Data Handling Techniques. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1301	2.6	6
181	Optimized Multiport DC/DC Converter for Vehicle Drivetrains: Topology and Design Optimization. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1351	2.6	10
180	Comprehensive Aging Analysis of Volumetric Constrained Lithium-Ion Pouch Cells with High Concentration Silicon-Alloy Anodes. <i>Energies</i> , 2018 , 11, 2948	3.1	19
179	Electrical Characterization and Micro X-ray Computed Tomography Analysis of Next-Generation Silicon Alloy Lithium-Ion Cells. <i>World Electric Vehicle Journal</i> , 2018 , 9, 43	2.5	11
178	A centralized state of charge estimation technique for electric vehicles equipped with lithium-ion batteries in smart grid environment 2018 ,		3
177	Environmental impact of traction electric motors for electric vehicles applications. <i>International Journal of Life Cycle Assessment</i> , 2017 , 22, 54-65	4.6	17
176	Resource depletion in an electric vehicle powertrain using different LCA impact methods. <i>Resources, Conservation and Recycling</i> , 2017 , 120, 119-130	11.9	23

175	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
174	Development of a Two-Dimensional-Thermal Model of Three Battery Chemistries. <i>IEEE Transactions on Energy Conversion</i> , 2017 , 32, 1447-1455	5.4	22
173	Design optimization of a 12/8 Switched Reluctance Motor for electric and hybrid vehicles 2017 ,		4
172	Influence analysis of static and dynamic fast-charging current profiles on ageing performance of commercial lithium-ion batteries. <i>Energy</i> , 2017 , 120, 179-191	7.9	70
171	Streamline three-dimensional thermal model of a lithium titanate pouch cell battery in extreme temperature conditions with module simulation. <i>Journal of Power Sources</i> , 2017 , 367, 24-33	8.9	27
170	An Evaluation Study of Hybrid Energy Storage System for Plug-In Hybrid Electric Buses 2017 ,		3
169	A Data-Driven Method for Energy Consumption Prediction and Energy-Efficient Routing of Electric Vehicles in Real-World Conditions. <i>Energies</i> , 2017 , 10, 608	3.1	47
168	Comparative environmental assessment of alternative fueled vehicles using a life cycle assessment. <i>Transportation Research Procedia</i> , 2017 , 25, 3435-3445	2.4	49
167	Three-dimensional electro-thermal model of li-ion pouch cell: Analysis and comparison of cell design factors and model assumptions. <i>Applied Thermal Engineering</i> , 2017 , 126, 796-808	5.8	53
166	Lithium-Ion Capacitor: Analysis of Thermal Behavior and Development of Three-Dimensional Thermal Model. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2017 , 14,	2	5
165	Total cost of ownership of electric vehicles incorporating Vehicle to Grid technology 2017 ,		2
164	Lithium-ion batteries: Comprehensive technical analysis of second-life batteries for smart grid applications 2017 ,		17
163	2017 ,		3
162	How can authorities support urban consolidation centres? A review of the accompanying measures. <i>Journal of Urbanism</i> , 2017 , 10, 468-486	1.2	9
161	The Environmental Performance of Different Power Rate's Charging Infrastructure for Electric Vehicles, a Life Cycle Perspective 2017 ,		1
160	Optimized passive thermal management for battery module 2017 ,		3
159	Cost Projection of State of the Art Lithium-Ion Batteries for Electric Vehicles Up to 2030. <i>Energies</i> , 2017 , 10, 1314	3.1	276
158	Design and modeling of V2G inductive charging system for light-duty Electric Vehicles 2017 ,		2

157	The Development of Hybrid and Electric Vehicles: Emergence and Development of the Patent Network. <i>World Electric Vehicle Journal</i> , 2016 , 8, 611-622	2.5	1
156	2016 ,		8
155	Advanced lithium ion battery modeling and nonlinear analysis based on robust method in frequency domain: Nonlinear characterization and non-parametric modeling. <i>Energy</i> , 2016 , 106, 602-617	7.9	20
154	Modeling, analysis and feasibility study of new drivetrain architectures for off-highway vehicles. <i>Energy</i> , 2016 , 109, 1056-1074	7.9	13
153	Critical review of state of health estimation methods of Li-ion batteries for real applications. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 56, 572-587	16.2	382
152	Environmental and Economic Performance of an Li-Ion Battery Pack: A Multiregional Input-Output Approach. <i>Energies</i> , 2016 , 9, 584	3.1	10
151	Lithium Ion Batteries Development of Advanced Electrical Equivalent Circuit Models for Nickel Manganese Cobalt Lithium-Ion. <i>Energies</i> , 2016 , 9, 360	3.1	46
150	How Total is a Total Cost of Ownership?. <i>World Electric Vehicle Journal</i> , 2016 , 8, 742-753	2.5	6
149	Environmental Analysis of Petrol, Diesel and Electric Passenger Cars in a Belgian Urban Setting. <i>Energies</i> , 2016 , 9, 84	3.1	62
148	Influence of Electrode Density on the Performance of Li-Ion Batteries: Experimental and Simulation Results. <i>Energies</i> , 2016 , 9, 104	3.1	40
147	Design and Analysis of Generic Energy Management Strategy for Controlling Second-Life Battery Systems in Stationary Applications. <i>Energies</i> , 2016 , 9, 889	3.1	13
146	A Comprehensive Study on Rechargeable Energy Storage Technologies. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2016 , 13,	2	17
145	Performance and Reliability Assessment of NMC Lithium Ion Batteries for Stationary Application 2016 ,		1
144	Design approach and interoperability analysis of wireless power transfer systems for vehicular applications 2016 ,		9
143	Lithium-Ion Capacitor - Optimization of Thermal Management from Cell to Module Level 2016 ,		8
142	Exploring the choice of battery electric vehicles in city logistics: A conjoint-based choice analysis. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2016 , 91, 245-258	9	50
141	Strategic Scenarios for Sustainable Urban Distribution in the Brussels-capital Region Using Urban Consolidation Centres. <i>Transportation Research Procedia</i> , 2016 , 12, 598-612	2.4	20
140	Online state of health estimation on NMC cells based on predictive analytics. <i>Journal of Power Sources</i> , 2016 , 320, 239-250	8.9	95

139	Environmental performance of electricity storage systems for grid applications, a life cycle approach. <i>Energy Conversion and Management</i> , 2015 , 101, 326-335	10.6	50
138	Key issues of lithium-ion batteries [From resource depletion to environmental performance indicators. <i>Journal of Cleaner Production</i> , 2015 , 108, 354-362	10.3	89
137	Modeling and analysis of different control techniques of conductive battery chargers for electric vehicles applications. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2015 , 34, 151-172	0.7	3
136	A Modified Multiphysics model for Lithium-Ion batteries with a $\text{Li}_x\text{Ni}_{1/3}\text{Mn}_{1/3}\text{Co}_{1/3}\text{O}_2$ electrode. <i>Electrochimica Acta</i> , 2015 , 174, 615-624	6.7	29
135	Impacts of electricity mix, charging profile, and driving behavior on the emissions performance of battery electric vehicles: A Belgian case study. <i>Applied Energy</i> , 2015 , 148, 496-505	10.7	109
134	Lithium-ion capacitor [Characterization and development of new electrical model. <i>Energy</i> , 2015 , 83, 597-613	7.9	41
133	Estimating the frequency response of a system in the presence of an integrator. <i>Control Engineering Practice</i> , 2015 , 35, 1-11	3.9	1
132	Environmental performance of advanced hybrid energy storage systems for electric vehicle applications. <i>Applied Energy</i> , 2015 , 137, 925-930	10.7	39
131	SOH Estimation and Prediction for NMC Cells Based on Degradation Mechanism Detection 2015 ,		4
130	Electric vehicle attitudes and purchase intention: a Flemish case study. <i>International Journal of Electric and Hybrid Vehicles</i> , 2015 , 7, 83	0.7	11
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