

Joeri Van Mierlo

List of Publications by Citations

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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	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
299	Lithium iron phosphate based battery [Assessment of the aging parameters and development of cycle life model. <i>Applied Energy</i> , 2014 , 113, 1575-1585	10.7	367
298	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
297	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
296	Environmental impacts of hybrid, plug-in hybrid, and battery electric vehicles [What can we learn from life cycle assessment?. <i>International Journal of Life Cycle Assessment</i> , 2014 , 19, 1866-1890	4.6	273
295	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
294	Analysis, Modeling, and Implementation of a Multidevice Interleaved DC/DC Converter for Fuel Cell Hybrid Electric Vehicles. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 4445-4458	7.2	201
293	Which energy source for road transport in the future? A comparison of battery, hybrid and fuel cell vehicles. <i>Energy Conversion and Management</i> , 2006 , 47, 2748-2760	10.6	191
292	SUBAT: An assessment of sustainable battery technology. <i>Journal of Power Sources</i> , 2006 , 162, 913-919	8.9	187
291	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
290	Passive and active battery balancing comparison based on MATLAB simulation 2011 ,		170
289	Models of energy sources for EV and HEV: fuel cells, batteries, ultracapacitors, flywheels and engine-generators. <i>Journal of Power Sources</i> , 2004 , 128, 76-89	8.9	159
288	Random forest regression for online capacity estimation of lithium-ion batteries. <i>Applied Energy</i> , 2018 , 232, 197-210	10.7	145
287	Energy savings in public transport. <i>IEEE Vehicular Technology Magazine</i> , 2008 , 3, 26-36	9.9	136
286	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
285	The dimensioning of PV-battery systems depending on the incentive and selling price conditions. <i>Applied Energy</i> , 2013 , 111, 1126-1135	10.7	127
284	Energy Consumption Prediction for Electric Vehicles Based on Real-World Data. <i>Energies</i> , 2015 , 8, 8573-8593	3.5	120

283	Lithium-ion batteries: Evaluation study of different charging methodologies based on aging process. <i>Applied Energy</i> , 2015 , 152, 143-155	10.7	115
282	Rechargeable Energy Storage Systems for Plug-in Hybrid Electric Vehicles Assessment of Electrical Characteristics. <i>Energies</i> , 2012 , 5, 2952-2988	3.1	115
281	Thermal modeling and heat management of supercapacitor modules for vehicle applications. <i>Journal of Power Sources</i> , 2009 , 194, 581-587	8.9	113
280	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
279	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
278	A Range-Based Vehicle Life Cycle Assessment Incorporating Variability in the Environmental Assessment of Different Vehicle Technologies and Fuels. <i>Energies</i> , 2014 , 7, 1467-1482	3.1	109
277	A DSP-Based Dual-Loop Peak DC-link Voltage Control Strategy of the Z-Source Inverter. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 4088-4097	7.2	105
276	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
275	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
274	Impact of Tab Location on Large Format Lithium-Ion Pouch Cell Based on Fully Coupled Tree-Dimensional Electrochemical-Thermal Modeling. <i>Electrochimica Acta</i> , 2014 , 147, 319-329	6.7	92
273	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
272	. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 5508-5521	7.2	88
271	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
270	The market potential for plug-in hybrid and battery electric vehicles in Flanders: A choice-based conjoint analysis. <i>Transportation Research, Part D: Transport and Environment</i> , 2012 , 17, 592-597	6.4	77
269	Assessment of lithium-ion capacitor for using in battery electric vehicle and hybrid electric vehicle applications. <i>Electrochimica Acta</i> , 2012 , 86, 305-315	6.7	76
268	A multi-actor multi-criteria framework to assess the stakeholder support for different biofuel options: The case of Belgium. <i>Energy Policy</i> , 2011 , 39, 200-214	7.2	74
267	The hourly life cycle carbon footprint of electricity generation in Belgium, bringing a temporal resolution in life cycle assessment. <i>Applied Energy</i> , 2014 , 134, 469-476	10.7	73
266	Lithium-Ion Batteries Health Prognosis Considering Aging Conditions. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 6834-6844	7.2	73

265	Development of an Advanced Two-Dimensional Thermal Model for Large size Lithium-ion Pouch Cells. <i>Electrochimica Acta</i> , 2014 , 117, 246-254	6.7	72
264	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
263	Power and life enhancement of battery-electrical double layer capacitor for hybrid electric and charge-depleting plug-in vehicle applications. <i>Electrochimica Acta</i> , 2010 , 55, 7524-7531	6.7	64
262	A comprehensive review of future thermal management systems for battery-electrified vehicles. <i>Journal of Energy Storage</i> , 2020 , 31, 101551	7.8	63
261	Integrating renewable energy in smart grid system: Architecture, virtualization and analysis. <i>Sustainable Energy, Grids and Networks</i> , 2019 , 18, 100226	3.6	62
260	Environmental Analysis of Petrol, Diesel and Electric Passenger Cars in a Belgian Urban Setting. <i>Energies</i> , 2016 , 9, 84	3.1	62
259	Improving energy efficiency in public transport: Stationary supercapacitor based Energy Storage Systems for a metro network 2008 ,		61
258	Comparative Study of Surface Temperature Behavior of Commercial Li-Ion Pouch Cells of Different Chemistries and Capacities by Infrared Thermography. <i>Energies</i> , 2015 , 8, 8175-8192	3.1	60
257	Comparison of commercial battery cells in relation to material properties. <i>Electrochimica Acta</i> , 2013 , 87, 473-488	6.7	54
256	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
255	Standardization Work for BEV and HEV Applications: Critical Appraisal of Recent Traction Battery Documents. <i>Energies</i> , 2012 , 5, 138-156	3.1	52
254	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
253	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
252	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
251	Single Switched Capacitor Battery Balancing System Enhancements. <i>Energies</i> , 2013 , 6, 2149-2174	3.1	49
250	Comparative environmental assessment of alternative fueled vehicles using a life cycle assessment. <i>Transportation Research Procedia</i> , 2017 , 25, 3435-3445	2.4	49
249	Fuel Cell or Battery: Electric Cars are the Future. <i>Fuel Cells</i> , 2007 , 7, 165-173	2.9	48
248	Electric vehicles, hybrid electric vehicles and fuel cell electric vehicles : state of the art and perspectives. <i>Annales De Chimie: Science Des Materiaux</i> , 2001 , 26, 9-26	2.1	48

247	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
246	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
245	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
244	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
243	Peukert Revisited Critical Appraisal and Need for Modification for Lithium-Ion Batteries. <i>Energies</i> , 2013 , 6, 5625-5641	3.1	44
242	Status and future perspectives of reliability assessment for electric vehicles. <i>Reliability Engineering and System Safety</i> , 2019 , 183, 1-16	6.3	43
241	. <i>IEEE Transactions on Vehicular Technology</i> , 2004 , 53, 401-412	6.8	42
240	Lithium-ion capacitor Characterization and development of new electrical model. <i>Energy</i> , 2015 , 83, 597-613	7.9	41
239	Consumer attitudes towards battery electric vehicles: a large-scale survey. <i>International Journal of Electric and Hybrid Vehicles</i> , 2013 , 5, 28	0.7	41
238	Electricity Generation in LCA of Electric Vehicles: A Review. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1384	2.6	41
237	Electrical Double-Layer Capacitors in Hybrid Topologies Assessment and Evaluation of Their Performance. <i>Energies</i> , 2012 , 5, 4533-4568	3.1	40
236	Influence of Electrode Density on the Performance of Li-Ion Batteries: Experimental and Simulation Results. <i>Energies</i> , 2016 , 9, 104	3.1	40
235	Environmental performance of advanced hybrid energy storage systems for electric vehicle applications. <i>Applied Energy</i> , 2015 , 137, 925-930	10.7	39
234	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
233	A Review of Energy Storage Technologies Application Potentials in Renewable Energy Sources Grid Integration. <i>Sustainability</i> , 2020 , 12, 10511	3.6	38
232	Conventional, Hybrid, or Electric Vehicles: Which Technology for an Urban Distribution Centre?. <i>Scientific World Journal, The</i> , 2015 , 2015, 302867	2.2	38
231	Influence of functional unit on the life cycle assessment of traction batteries. <i>International Journal of Life Cycle Assessment</i> , 2007 , 12, 191-196	4.6	37
230	Online health diagnosis of lithium-ion batteries based on nonlinear autoregressive neural network. <i>Applied Energy</i> , 2021 , 282, 116159	10.7	36

229	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
228	Particle Swarm Optimization for optimal powertrain component sizing and design of fuel cell hybrid electric vehicle 2010 ,		32
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	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
225	Optimal power management and powertrain components sizing of fuel cell/battery hybrid electric vehicles based on particle swarm optimisation. <i>International Journal of Vehicle Design</i> , 2012 , 58, 200	2.4	30
224	Environmental rating of vehicles with different alternative fuels and drive trains: a comparison of two approaches. <i>Transportation Research, Part D: Transport and Environment</i> , 2004 , 9, 387-399	6.4	30
223	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
222	Battery Management System Balancing Modularization Based on a Single Switched Capacitor and Bi-Directional DC/DC Converter with the Auxiliary Battery. <i>Energies</i> , 2014 , 7, 2897-2937	3.1	29
221	Enhanced test methods to characterise automotive battery cells. <i>Journal of Power Sources</i> , 2011 , 196, 10079-10087	8.9	29
220	Experimental Study of the Shoot-Through Boost Control Methods for the Z-Source Inverter. <i>EPE Journal (European Power Electronics and Drives Journal)</i> , 2011 , 21, 18-29	0.4	29
219	2008 ,		29
218	Control and Analysis of an Integrated Bidirectional DC/AC and DC/DC Converters for Plug-In Hybrid Electric Vehicle Applications. <i>Journal of Power Electronics</i> , 2011 , 11, 408-417	0.9	29
217	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
216	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
215	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
214	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
213	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
212	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

211	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
210	Design Methodology, Modeling, and Comparative Study of Wireless Power Transfer Systems for Electric Vehicles. <i>Energies</i> , 2018 , 11, 1716	3.1	25
209	An online framework for state of charge determination of battery systems using combined system identification approach. <i>Journal of Power Sources</i> , 2014 , 246, 629-641	8.9	25
208	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
207	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
206	Comparative LCA of electric, hybrid, LPG and gasoline cars in Belgian context. <i>World Electric Vehicle Journal</i> , 2009 , 3, 469-476	2.5	24
205	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
204	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
203	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
202	Evaluation of performance characteristics of various lithium-ion batteries for use in BEV application 2010 ,		23
201	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
200	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
199	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
198	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
197	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
196	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
195	Electrical double-layer capacitors: evaluation of ageing phenomena during cycle life testing. <i>Journal of Applied Electrochemistry</i> , 2014 , 44, 509-522	2.6	21
194	Environmental and Financial Evaluation of Passenger Vehicle Technologies in Belgium. <i>Sustainability</i> , 2013 , 5, 5020-5033	3.6	21

193	Comparative Study on Parameter Identification Methods for Dual-Polarization Lithium-Ion Equivalent Circuit Model. <i>Energies</i> , 2019 , 12, 4031	3.1	21
192	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
191	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
190	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
189	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
188	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
187	Combining Intermodal Transport With Electric Vehicles: Towards More Sustainable Solutions. <i>Transportation Planning and Technology</i> , 2007 , 30, 311-323	1.6	19
186	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
185	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
184	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
183	Modelling, Analysis and Performance Evaluation of Power Conversion Unit in G2V/V2G Application: A Review. <i>Energies</i> , 2018 , 11, 1082	3.1	18
182	Control of a Bidirectional Z-Source Inverter for Electric Vehicle Applications in Different Operation Modes. <i>Journal of Power Electronics</i> , 2011 , 11, 120-131	0.9	18
181	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
180	Lithium-ion batteries: Comprehensive technical analysis of second-life batteries for smart grid applications 2017 ,		17
179	How expensive are electric vehicles? A total cost of ownership analysis.. <i>World Electric Vehicle Journal</i> , 2013 , 6, 996-1007	2.5	17
178	PSO algorithm-based optimal power flow control of fuel cell/supercapacitor and fuel cell/battery hybrid electric vehicles. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2012 , 32, 86-107	0.7	17
177	A DSP-Based Dual Loop Digital Controller Design and Implementation of a High Power Boost Converter for Hybrid Electric Vehicles Applications. <i>Journal of Power Electronics</i> , 2011 , 11, 113-119	0.9	17
176	Lithium-Ion Capacitor Lifetime Extension through an Optimal Thermal Management System for Smart Grid Applications. <i>Energies</i> , 2021 , 14, 2907	3.1	17

175	Comprehensive Passive Thermal Management Systems for Electric Vehicles. <i>Energies</i> , 2021 , 14, 3881	3.1	17
174	A Comprehensive Study on Rechargeable Energy Storage Technologies. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2016 , 13,	2	17
173	Optimization of an advanced battery model parameter minimization tool and development of a novel electrical model for lithium-ion batteries. <i>International Transactions on Electrical Energy Systems</i> , 2014 , 24, 1747-1767	2.2	16
172	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
171	Battery lifetime prediction and performance assessment of different modeling approaches. <i>IScience</i> , 2021 , 24, 102060	6.1	16
170	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
169	Thermal Behaviour Investigation of a Large and High Power Lithium Iron Phosphate Cylindrical Cell. <i>Energies</i> , 2015 , 8, 10017-10042	3.1	15
168	Implementing electric vehicles in urban distribution: A discrete event simulation. <i>World Electric Vehicle Journal</i> , 2013 , 6, 38-47	2.5	15
167	Thermal Concept Design of MOSFET Power Modules in Inverter Subsystems for Electric Vehicles 2019 ,		15
166	Combining an Electrothermal and Impedance Aging Model to Investigate Thermal Degradation Caused by Fast Charging. <i>Energies</i> , 2018 , 11, 804	3.1	14
165	A comparative study of different control techniques for an induction motor fed by a Z-source inverter for electric vehicles 2011 ,		14
164	Ensemble Gradient Boosted Tree for SoH Estimation Based on Diagnostic Features. <i>Energies</i> , 2020 , 13, 1262	3.1	13
163	Modeling, analysis and feasibility study of new drivetrain architectures for off-highway vehicles. <i>Energy</i> , 2016 , 109, 1056-1074	7.9	13
162	The Influence of Allocation on the Carbon Footprint of Electricity Production from Waste Gas, a Case Study for Blast Furnace Gas. <i>Energies</i> , 2013 , 6, 1217-1232	3.1	13
161	Assessment of Behaviour of Super Capacitor-battery System in Heavy Hybrid Lift Truck Vehicles. <i>Journal of Asian Electric Vehicles</i> , 2009 , 7, 1277-1282	0.3	13
160	Research and test platform for hybrid electric vehicle with the super capacitor based energy storage 2007 ,		13
159	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
158	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

157	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
156	Development of 2D Thermal Battery Model for Lithium-ion Pouch Cells. <i>World Electric Vehicle Journal</i> , 2013 , 6, 629-637	2.5	12
155	Life-cycle assessment of batteries in the context of the EU Directive on end-of-life vehicles. <i>International Journal of Vehicle Design</i> , 2008 , 46, 189	2.4	12
154	Test platform for hybrid electric power systems: Development of a HIL test platform 2007 ,		12
153	Influence of functional unit on the life cycle assessment of traction batteries 2007 , 12, 191		12
152	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
151	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
150	Direct torque controlled space vector modulated induction motor fed by a Z-source inverter for electric vehicles 2011 ,		11
149	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
148	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
147	Electric and thermal characterization of advanced hybrid Li-Ion capacitor rechargeable energy storage system 2013 ,		10
146	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
145	Environmental and Economic Performance of an Li-Ion Battery Pack: A Multiregional Input-Output Approach. <i>Energies</i> , 2016 , 9, 584	3.1	10
144	Optimized Multiport DC/DC Converter for Vehicle Drivetrains: Topology and Design Optimization. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1351	2.6	10
143	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
142	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
141	Capacitor Based Battery Balancing System. <i>World Electric Vehicle Journal</i> , 2012 , 5, 385-393	2.5	9
140	Design and control of bidirectional DC/AC and DC/DC converters for plug-in hybrid electric vehicles 2011 ,		9

139	Capacitor Voltage Control Techniques of the Z-source Inverter: A Comparative Study. <i>EPE Journal (European Power Electronics and Drives Journal)</i> , 2011 , 21, 13-24	0.4	9
138	Test Bench of Hybrid Electric Vehicle with the Super Capacitor based Energy Storage 2007 ,		9
137	Design approach and interoperability analysis of wireless power transfer systems for vehicular applications 2016 ,		9
136	2016 ,		8
135	Analysis and modeling of a bidirectional multiport DC/DC power converter for battery electric vehicle applications 2014 ,		8
134	Lithium-Ion Capacitor - Optimization of Thermal Management from Cell to Module Level 2016 ,		8
133	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
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131	A Three-dimensional thermal model for a commercial lithium-ion capacitor battery pack with non-uniform temperature distribution 2019 ,		7
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