

Chris Mi

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5015505/chris-mi-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

297
papers

13,076
citations

60
h-index

107
g-index

318
ext. papers

17,173
ext. citations

5.2
avg, IF

7.24
L-index

#	Paper	IF	Citations
297	Wireless Power Transfer for Electric Vehicle Applications. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2015 , 3, 4-17	5.6	870
296	Eliminate Reactive Power and Increase System Efficiency of Isolated Bidirectional Dual-Active-Bridge DCDC Converters Using Novel Dual-Phase-Shift Control. <i>IEEE Transactions on Power Electronics</i> , 2008 , 23, 2905-2914	7.2	568
295	A Double-Sided LCC Compensation Network and Its Tuning Method for Wireless Power Transfer. <i>IEEE Transactions on Vehicular Technology</i> , 2015 , 64, 2261-2273	6.8	483
294	Modern Advances in Wireless Power Transfer Systems for Roadway Powered Electric Vehicles. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 6533-6545	8.9	404
293	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 4768-4778	6.8	402
292	Modeling and Simulation of Electric and Hybrid Vehicles. <i>Proceedings of the IEEE</i> , 2007 , 95, 729-745	14.3	257
291	A Double-Sided LCLC-Compensated Capacitive Power Transfer System for Electric Vehicle Charging. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 6011-6014	7.2	234
290	A review of wireless power transfer for electric vehicles: Prospects to enhance sustainable mobility. <i>Applied Energy</i> , 2016 , 179, 413-425	10.7	222
289	. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 2374-2384	2	222
288	State of Charge Estimation of Lithium-Ion Batteries in Electric Drive Vehicles Using Extended Kalman Filtering. <i>IEEE Transactions on Vehicular Technology</i> , 2013 , 62, 1020-1030	6.8	221
287	Energy Management for a Power-Split Plug-in Hybrid Electric Vehicle Based on Dynamic Programming and Neural Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2014 , 63, 1567-1580	6.8	203
286	Operation, design and control of dual H-bridge-based isolated bidirectional DCDC converter. <i>IET Power Electronics</i> , 2008 , 1, 507	2.2	195
285	. <i>IEEE Transactions on Vehicular Technology</i> , 2014 , 63, 1581-1592	6.8	188
284	A new method to estimate the state of charge of lithium-ion batteries based on the battery impedance model. <i>Journal of Power Sources</i> , 2013 , 233, 277-284	8.9	187
283	Integrated $\{LCC\}$ Compensation Topology for Wireless Charger in Electric and Plug-in Electric Vehicles. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 4215-4225	8.9	181
282	The State of Charge Estimation of Lithium-Ion Batteries Based on a Proportional-Integral Observer. <i>IEEE Transactions on Vehicular Technology</i> , 2014 , 63, 1614-1621	6.8	173
281	Online battery state of health estimation based on Genetic Algorithm for electric and hybrid vehicle applications. <i>Journal of Power Sources</i> , 2013 , 240, 184-192	8.9	172

280	A High-Efficiency Active Battery-Balancing Circuit Using Multiwinding Transformer. <i>IEEE Transactions on Industry Applications</i> , 2013 , 49, 198-207	4.3	164
279	Comparison Study on SS and Double-Sided LCC Compensation Topologies for EV/PHEV Wireless Chargers. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 4429-4439	6.8	161
278	Energy management of a power-split plug-in hybrid electric vehicle based on genetic algorithm and quadratic programming. <i>Journal of Power Sources</i> , 2014 , 248, 416-426	8.9	161
277	Three-Level Inverter-Based Shunt Active Power Filter in Three-Phase Three-Wire and Four-Wire Systems. <i>IEEE Transactions on Power Electronics</i> , 2009 , 24, 1350-1363	7.2	157
276	. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 1638-1650	7.2	153
275	Prognostic and Warning System for Power-Electronic Modules in Electric, Hybrid Electric, and Fuel-Cell Vehicles. <i>IEEE Transactions on Industrial Electronics</i> , 2008 , 55, 2268-2276	8.9	143
274	Experimental Comparison of Traditional Phase-Shift, Dual-Phase-Shift, and Model-Based Control of Isolated Bidirectional DCDC Converters. <i>IEEE Transactions on Power Electronics</i> , 2010 , 25, 1444-1449	7.2	140
273	Compact and Efficient Bipolar Coupler for Wireless Power Chargers: Design and Analysis. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 6130-6140	7.2	137
272	A Dynamic Charging System With Reduced Output Power Pulsation for Electric Vehicles. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 6580-6590	8.9	129
271	A Four-Plate Compact Capacitive Coupler Design and LCL-Compensated Topology for Capacitive Power Transfer in Electric Vehicle Charging Application. <i>IEEE Transactions on Power Electronics</i> , 2016 , 1-1	7.2	127
270	. <i>IEEE Transactions on Industry Applications</i> , 2003 , 39, 734-742	4.3	122
269	A robust state-of-charge estimator for multiple types of lithium-ion batteries using adaptive extended Kalman filter. <i>Journal of Power Sources</i> , 2013 , 243, 805-816	8.9	121
268	Loosely Coupled Transformer Structure and Interoperability Study for EV Wireless Charging Systems. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 6356-6367	7.2	119
267	Wavelet-transform-based power management of hybrid vehicles with multiple on-board energy sources including fuel cell, battery and ultracapacitor. <i>Journal of Power Sources</i> , 2008 , 185, 1533-1543	8.9	117
266	. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 6546-6556	8.9	115
265	A Review on the Recent Development of Capacitive Wireless Power Transfer Technology. <i>Energies</i> , 2017 , 10, 1752	3.1	114
264	A correlation based fault detection method for short circuits in battery packs. <i>Journal of Power Sources</i> , 2017 , 337, 1-10	8.9	113
263	An Inductive and Capacitive Combined Wireless Power Transfer System With LC-Compensated Topology. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 8471-8482	7.2	112

262	. <i>IEEE Transactions on Vehicular Technology</i> , 2005 , 54, 486-494	6.8	109
261	2011 ,		107
260	A Misalignment-Tolerant Series-Hybrid Wireless EV Charging System With Integrated Magnetics. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 1276-1285	7.2	103
259	A Double-Sided LC-Compensation Circuit for Loosely Coupled Capacitive Power Transfer. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 1633-1643	7.2	102
258	Modeling of a Complementary and Modular Linear Flux-Switching Permanent Magnet Motor for Urban Rail Transit Applications. <i>IEEE Transactions on Energy Conversion</i> , 2012 , 27, 489-497	5.4	102
257	. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 1872-1879	4.3	97
256	Design and Analysis of a Three-Phase Wireless Charging System for Lightweight Autonomous Underwater Vehicles. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 6622-6632	7.2	97
255	Plug-in vs. wireless charging: Life cycle energy and greenhouse gas emissions for an electric bus system. <i>Applied Energy</i> , 2015 , 146, 11-19	10.7	92
254	The Short-Time-Scale Transient Processes in High-Voltage and High-Power Isolated Bidirectional DCDC Converters. <i>IEEE Transactions on Power Electronics</i> , 2008 , 23, 2648-2656	7.2	90
253	An Automatic Equalizer Based on ForwardBlyback Converter for Series-Connected Battery Strings. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 5380-5391	8.9	83
252	Online state-of-health estimation for lithium-ion batteries using constant-voltage charging current analysis. <i>Applied Energy</i> , 2018 , 212, 1589-1600	10.7	82
251	Six-Plate Capacitive Coupler to Reduce Electric Field Emission in Large Air-Gap Capacitive Power Transfer. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 665-675	7.2	82
250	A novel energy management method for series plug-in hybrid electric vehicles. <i>Applied Energy</i> , 2015 , 145, 172-179	10.7	81
249	A Two-Plate Capacitive Wireless Power Transfer System for Electric Vehicle Charging Applications. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 964-969	7.2	81
248	Energy management of power-split plug-in hybrid electric vehicles based on simulated annealing and Pontryagin's minimum principle. <i>Journal of Power Sources</i> , 2014 , 272, 160-168	8.9	76
247	. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 2165-2175	8.9	76
246	Feasibility study on bipolar pads for efficient wireless power chargers 2014 ,		71
245	A Dual-Coupled LCC-Compensated IPT System With a Compact Magnetic Coupler. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 6391-6402	7.2	69

244	A Switched-Coupling-Capacitor Equalizer for Series-Connected Battery Strings. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 7694-7706	7.2	64
243	A CLLC-compensated high power and large air-gap capacitive power transfer system for electric vehicle charging applications 2016 ,		63
242	Load-Independent Wireless Power Transfer System for Multiple Loads Over a Long Distance. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 9279-9288	7.2	63
241	Analytical Method for Magnetic Field Calculation in a Low-Speed Permanent-Magnet Harmonic Machine. <i>IEEE Transactions on Energy Conversion</i> , 2011 , 26, 862-870	5.4	62
240	. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 50-58	2	62
239	2017 ,		62
238	Investigation of path dependence in commercial lithium-ion cells for pure electric bus applications: Aging mechanism identification. <i>Journal of Power Sources</i> , 2015 , 274, 29-40	8.9	61
237	Frequency Optimization of a Loosely Coupled Underwater Wireless Power Transfer System Considering Eddy Current Loss. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 3468-3476	8.9	60
236	Accurate Lithium-ion battery parameter estimation with continuous-time system identification methods. <i>Applied Energy</i> , 2016 , 179, 426-436	10.7	59
235	Analytical Approach for the Power Management of Blended-Mode Plug-In Hybrid Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 1554-1566	6.8	59
234	Charge-Depleting Control Strategies and Fuel Optimization of Blended-Mode Plug-In Hybrid Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 1516-1525	6.8	58
233	Adaptive State-of-Charge Estimation Based on a Split Battery Model for Electric Vehicle Applications. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 10889-10898	6.8	57
232	Modeling of Eddy-Current Loss of Electrical Machines and Transformers Operated by Pulsewidth-Modulated Inverters. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 2021-2028	2	57
231	A fault-tolerant voltage measurement method for series connected battery packs. <i>Journal of Power Sources</i> , 2016 , 308, 83-96	8.9	57
230	Hybrid vehicle design using global optimisation algorithms. <i>International Journal of Electric and Hybrid Vehicles</i> , 2007 , 1, 57	0.7	54
229	Evaluation of Model Based State of Charge Estimation Methods for Lithium-Ion Batteries. <i>Energies</i> , 2014 , 7, 5065-5082	3.1	53
228	Integrated Coil Design for EV Wireless Charging Systems Using LCC Compensation Topology. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 9231-9241	7.2	50
227	Vehicle Power Management. <i>Power Systems</i> , 2011 ,	0.4	50

226	Minimization of iron losses of permanent magnet synchronous machines. <i>IEEE Transactions on Energy Conversion</i> , 2005 , 20, 121-127	5.4	49
225	Modeling and Analysis of Series-None Compensation for Wireless Power Transfer Systems With a Strong Coupling. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 1209-1215	7.2	44
224	Design of LLC Resonant Converters Based on Operation-Mode Analysis for Level Two PHEV Battery Chargers. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 1595-1606	5.5	43
223	. <i>IEEE Transactions on Vehicular Technology</i> , 2013 , 62, 4336-4344	6.8	42
222	An Improved Soft-Switching Buck Converter With Coupled Inductor. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 4885-4891	7.2	42
221	. <i>IEEE Transactions on Industry Applications</i> , 2013 , 49, 2730-2740	4.3	41
220	Loss-Minimization-Based Charging Strategy for Lithium-Ion Battery. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 4121-4129	4.3	41
219	A Linear Doubly Salient Permanent-Magnet Motor With Modular and Complementary Structure. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 4809-4821	2	41
218	A Rotation-Resilient Wireless Charging System for Lightweight Autonomous Underwater Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 6935-6942	6.8	41
217	Performance Modeling and Optimization of a Novel Multi-mode Hybrid Powertrain. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2006 , 128, 79-89	3	40
216	A Load-Independent LCC-Compensated Wireless Power Transfer System for Multiple Loads With a Compact Coupler Design. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 4507-4515	8.9	39
215	A Multi-Load Wireless Power Transfer System With Series-Parallel-Series Compensation. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 7126-7130	7.2	38
214	2017 ,		37
213	. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 1940-1949	6.8	36
212	A Modularization Method for Battery Equalizers Using Multiwinding Transformers. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 8710-8722	6.8	36
211	A Real-Time Battery Thermal Management Strategy for Connected and Automated Hybrid Electric Vehicles (CAHEVs) Based on Iterative Dynamic Programming. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 8077-8084	6.8	36
210	Battery Cell Identification and SOC Estimation Using String Terminal Voltage Measurements. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 2925-2935	6.8	36
209	SOC Based Battery Cell Balancing with a Novel Topology and Reduced Component Count. <i>Energies</i> , 2013 , 6, 2726-2740	3.1	35

208	Output power and efficiency sensitivity to circuit parameter variations in double-sided LCC-compensated wireless power transfer system 2015 ,		35
207	Modelling, design and optimisation of a battery charger for plug-in hybrid electric vehicles. <i>IET Electrical Systems in Transportation</i> , 2011 , 1, 3-10	2.1	35
206	A Delta-Structured Switched-Capacitor Equalizer for Series-Connected Battery Strings. <i>IEEE Transactions on Power Electronics</i> , 2018 , 1-1	7.2	35
205	. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 1493-1504	2	34
204	A high efficiency 3.3 kW loosely-coupled wireless power transfer system without magnetic material 2015 ,		33
203	Unified Load-Independent ZPA Analysis and Design in CC and CV Modes of Higher Order Resonant Circuits for WPT Systems. <i>IEEE Transactions on Transportation Electrification</i> , 2019 , 5, 977-987	7.6	32
202	An Automotive Onboard AC Heater Without External Power Supplies for Lithium-Ion Batteries at Low Temperatures. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 7759-7769	7.2	32
201	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 4779-4789	6.8	32
200	Wide Design Range of Constant Output Current Using Double-Sided LC Compensation Circuits for Inductive-Power-Transfer Applications. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 2364-2374	7.2	32
199	2007 ,		32
198	An Integrated Heater Equalizer for Lithium-Ion Batteries of Electric Vehicles. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 4398-4405	8.9	31
197	. <i>IEEE Transactions on Vehicular Technology</i> , 2005 , 54, 837-845	6.8	31
196	A Tightly Coupled Inductive Power Transfer System for Low-Voltage and High-Current Charging of Automatic Guided Vehicles. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 6867-6875	8.9	31
195	A review of foreign object detection (FOD) for inductive power transfer systems. <i>ETransportation</i> , 2019 , 1, 100002	12.7	30
194	Learning of Battery Model Bias for Effective State of Charge Estimation of Lithium-Ion Batteries. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 8613-8628	6.8	30
193	Torque Control of IPMSM in the Field-Weakening Region With Improved DC-Link Voltage Utilization. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 1-1	8.9	30
192	. <i>IEEE Transactions on Industry Applications</i> , 2004 , 40, 565-573	4.3	30
191	Dynamic Charging of Electric Vehicles by Wireless Power Transfer. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 6530-6532	8.9	30

190	The improved interleaved voltage measurement method for series connected battery packs. <i>Journal of Power Sources</i> , 2016 , 334, 12-22	8.9	29
189	An Inductive and Capacitive Integrated Coupler and Its LCL Compensation Circuit Design for Wireless Power Transfer. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 4903-4913	4.3	28
188	. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 3623-3629	2	28
187	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 1311-1317	5.6	28
186	Energy absorption of gold nanoshells in hyperthermia therapy. <i>IEEE Transactions on Nanobioscience</i> , 2008 , 7, 206-14	3.4	27
185	Fault-Tolerant Wireless Power Transfer System With a Dual-Coupled LCC-S Topology. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 11838-11846	6.8	26
184	Hybrid Energy Storage System of an Electric Scooter Based on Wireless Power Transfer. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 4169-4178	11.9	26
183	Realizing Constant Current and Constant Voltage Outputs and Input Zero Phase Angle of Wireless Power Transfer Systems With Minimum Component Counts. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 22, 600-610	6.1	26
182	Ecological Driving System for Connected/Automated Vehicles Using a Two-Stage Control Hierarchy. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018 , 19, 2373-2384	6.1	25
181	Development of a high efficiency primary side controlled 7kW wireless power charger 2014 ,		24
180	A Load-Independent Wireless Power Transfer System With Multiple Constant Voltage Outputs. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 3328-3331	7.2	24
179	Data-based fractional differential models for non-linear dynamic modeling of a lithium-ion battery. <i>Energy</i> , 2017 , 135, 171-181	7.9	23
178	Modeling and Analysis of AC Output Power Factor for Wireless Chargers in Electric Vehicles. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 1481-1492	7.2	22
177	An LC-Compensated Electric Field Repeater for Long-Distance Capacitive Power Transfer. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 4914-4922	4.3	22
176	Sensitivity Analysis of Inductive Power Transfer Systems With Voltage-Fed Compensation Topologies. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 4502-4513	6.8	22
175	Magnetic integration of LCC compensated resonant converter for inductive power transfer applications 2014 ,		21
174	The Plasmon Resonance of a Multilayered Gold Nanoshell and its Potential Bioapplications. <i>IEEE Nanotechnology Magazine</i> , 2011 , 10, 797-805	2.6	21
173	Comparison and evaluation of different DC/DC topologies for plug-in hybrid electric vehicle chargers. <i>International Journal of Power Electronics</i> , 2012 , 4, 119	0.2	21

172	Integrated control of electromechanical braking and regenerative braking in plug-in hybrid electric vehicles. <i>International Journal of Vehicle Design</i> , 2012 , 58, 223	2.4	21
171	Optimal design of line level control resonant converters in plug-in hybrid electric vehicle battery chargers. <i>IET Electrical Systems in Transportation</i> , 2014 , 4, 21-28	2.1	20
170	A high efficiency low cost direct battery balancing circuit using a multi-winding transformer with reduced switch count 2012 ,		20
169	Analytical design of permanent-magnet traction-drive motors. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 1861-1866	2	20
168	A Low-Voltage and High-Current Inductive Power Transfer System With Low Harmonics for Automatic Guided Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 3351-3360	6.8	19
167	Modelling and analysis of the distortion of strongly-coupled wireless power transfer systems with SS and LCC/CC compensations. <i>IET Power Electronics</i> , 2019 , 12, 1321-1328	2.2	19
166	Active-charging based powertrain control in series hybrid electric vehicles for efficiency improvement and battery lifetime extension. <i>Journal of Power Sources</i> , 2014 , 245, 292-300	8.9	19
165	Improved Battery Parameter Estimation Method Considering Operating Scenarios for HEV/EV Applications. <i>Energies</i> , 2017 , 10, 5	3.1	19
164	Design of a high efficiency 22 kW wireless power transfer system for EVs fast contactless charging stations 2014 ,		19
163	A High-Efficiency and Long-Distance Power-Relay System With Equal Power Distribution. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 1419-1427	5.6	19
162	A High-Power Wireless Charging System Using LCL-N Topology to Achieve a Compact and Low-Cost Receiver. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 131-137	7.2	19
161	A Lithium-Ion Battery Balancing Circuit Based on Synchronous Rectification. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 1637-1648	7.2	19
160	Simplified Thermal Model of PM Motors in Hybrid Vehicle Applications Taking into Account Eddy Current Loss in Magnets. <i>Journal of Asian Electric Vehicles</i> , 2010 , 8, 1337-1343	0.3	18
159	. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 1920-1928	2	18
158	. <i>IEEE Transactions on Education</i> , 2005 , 48, 183-190	2.1	18
157	Three-Coil Wireless Charging System for Metal-Cover Smartphone Applications. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 4847-4858	7.2	18
156	A loosely coupled capacitive power transfer system with LC compensation circuit topology 2016 ,		18
155	A New Coil Structure to Reduce Eddy Current Loss of WPT Systems for Underwater Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 245-253	6.8	18

154	. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 6663-6675	6.8	17
153	An LCC-P Compensated Wireless Power Transfer System with a Constant Current Output and Reduced Receiver Size. <i>Energies</i> , 2019 , 12, 172	3.1	17
152	. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 805-816	8.9	17
151	The dynamic model and hybrid phase-shift control of a dual-active-bridge converter 2008 ,		17
150	Revolution of Electric Vehicle Charging Technologies Accelerated by Wide Bandgap Devices. <i>Proceedings of the IEEE</i> , 2021 , 109, 985-1003	14.3	17
149	The improved open-circuit voltage characterization test using active polarization voltage reduction method. <i>Applied Energy</i> , 2019 , 237, 682-694	10.7	15
148	A novel resistor-inductor network-based equivalent circuit model of lithium-ion batteries under constant-voltage charging condition. <i>Applied Energy</i> , 2019 , 254, 113726	10.7	15
147	High power capacitive power transfer for electric vehicle charging applications 2015 ,		15
146	Fast transient thermal analysis of gold nanoparticles in tissue-like medium. <i>IEEE Transactions on Nanobioscience</i> , 2009 , 8, 271-80	3.4	15
145	Topology, design, analysis and thermal management of power electronics for hybrid electric vehicle applications. <i>International Journal of Electric and Hybrid Vehicles</i> , 2008 , 1, 276	0.7	15
144	A Comparison Study of the Model Based SOC Estimation Methods for Lithium-Ion Batteries 2013 ,		14
143	External short circuit fault diagnosis for lithium-ion batteries 2014 ,		14
142	Core Temperature Estimation for Self-Heating Automotive Lithium-Ion Batteries in Cold Climates. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 3366-3375	11.9	13
141	Robust Predictive Battery Thermal Management Strategy for Connected and Automated Hybrid Electric Vehicles Based on Thermoelectric Parameter Uncertainty. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2018 , 6, 1796-1805	5.6	13
140	An adaptive online energy management controller for power-split HEV based on Dynamic Programming and fuzzy logic 2009 ,		13
139	A dynamic capacitive power transfer system with reduced power pulsation 2016 ,		13
138	A Copula-based battery pack consistency modeling method and its application on the energy utilization efficiency estimation. <i>Energy</i> , 2019 , 189, 116219	7.9	12
137	Underwater wireless power transfer system with a curly coil structure for AUVs. <i>IET Power Electronics</i> , 2019 , 12, 2559-2565	2.2	12

136	A Novel Capacitive Coupler Array With Free-Positioning Feature for Mobile Tablet Applications. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 6014-6019	7.2	12
135	A switched-coupling-capacitor equalizer for series-connected battery strings 2017 ,		11
134	ZVS double-side LCC compensated resonant inverter with magnetic integration for electric vehicle wireless charger 2015 ,		11
133	Study of the characteristics of battery packs in electric vehicles with parallel-connected lithium-ion battery cells 2014 ,		11
132	Multiple cell lithium-ion battery system electric fault online diagnostics 2015 ,		11
131	Impact of inverter on losses and thermal characteristics of induction motors. <i>International Journal of Power Electronics</i> , 2011 , 3, 641	0.2	11
130	Modeling of a Series Hybrid Electric High-Mobility Multipurpose Wheeled Vehicle. <i>IEEE Transactions on Vehicular Technology</i> , 2007 , 56, 557-565	6.8	11
129	A Power Relay System With Multiple Loads Using Asymmetrical Coil Design. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 1188-1196	8.9	11
128	An Electric Roadway System Leveraging Dynamic Capacitive Wireless Charging: Furthering the Continuous Charging of Electric Vehicles. <i>IEEE Electrification Magazine</i> , 2020 , 8, 52-60	2.6	10
127	Power management of PHEV using quadratic programming. <i>International Journal of Electric and Hybrid Vehicles</i> , 2011 , 3, 246	0.7	10
126	Slide Mode and Fuzzy Logic Based Powertrain Controller for the Energy Management and Battery Lifetime Extension of Series Hybrid Electric Vehicles. <i>Journal of Asian Electric Vehicles</i> , 2010 , 8, 1425-1432	9.3	10
125	Online temperature estimation of IPMSM permanent magnets in hybrid electric vehicles 2011 ,		10
124	Case Study of an Electric Vehicle Battery Thermal Runaway and Online Internal Short-Circuit Detection. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 2452-2455	7.2	10
123	A dual-coupled LCC-compensated IPT system to improve misalignment performance 2017 ,		9
122	Transient Temperature Response of Pulsed-Laser-Induced Heating for Nanoshell-Based Hyperthermia Treatment. <i>IEEE Nanotechnology Magazine</i> , 2009 , 8, 697-706	2.6	9
121	Modeling and simulation of a dual clutch hybrid vehicle powertrain 2009 ,		9
120	An automatic battery equalizer based on forward and flyback conversion for series-connected battery strings 2017 ,		8
119	Model Reference Adaptive Control for Hybrid Electric Vehicle With Dual Clutch Transmission Configurations. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 991-999	6.8	8

118	Modeling and Analysis of a Strongly Coupled SeriesParallel-Compensated Wireless Power Transfer System. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 1364-1370	5.6	8
117	LLC resonant converters for PHEV battery chargers 2013 ,		8
116	A hybrid excitation flux-switching permanent magnet linear motor for urban rail transit 2011 ,		8
115	A Multiload Inductive Power Transfer Repeater System With Constant Load Current Characteristics. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 3533-3541	5.6	8
114	An NFC-Connected Coupler Using IPT-CPT-Combined Wireless Charging for Metal-Cover Smartphone Applications. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 6323-6338	7.2	8
113	A three-phase wireless charging system for lightweight autonomous underwater vehicles 2017 ,		7
112	A large air-gap capacitive power transfer system with a 4-plate capacitive coupler structure for electric vehicle charging applications 2016 ,		7
111	Modeling of eddy current loss in the magnets of permanent magnet machines for hybrid and electric vehicle traction applications 2009 ,		7
110	Field-oriented Control of Induction Motor Drives with Direct Rotor Current Estimation for Applications in Electric and Hybrid Vehicles. <i>Journal of Asian Electric Vehicles</i> , 2007 , 5, 989-992	0.3	7
109	2011 ,		7
108	A high efficiency and compact inductive power transfer system compatible with both 3.3kW and 7.7kW receivers 2017 ,		6
107	A Metal Object Detection System with Multilayer Detection Coil Layouts for Electric Vehicle Wireless Charging. <i>Energies</i> , 2020 , 13, 2960	3.1	6
106	Transverse flux permanent magnet motor with double-C stator hoops and flux-concentrated rotor for in-wheel drive electric vehicle 2014 ,		6
105	Comparative Study of a Passive Hybrid Energy Storage System Using Lithium Ion Battery and Ultracapacitor. <i>World Electric Vehicle Journal</i> , 2012 , 5, 83-90	2.5	6
104	Multi-objective parameter optimization of a series hybrid electric vehicle using evolutionary algorithms 2009 ,		6
103	Fault diagnostics in power electronics-based brake-by-wire systems. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2008 , 222, 1-11	1.4	6
102	Design and optimization of a fuzzy-rule based hybrid electric vehicle controller 2008 ,		6
101	Modeling of Iron Losses of Electrical Machines and Transformers Fed by PWM Inverters. <i>IEEE Power Engineering Society General Meeting</i> , 2007 ,		6

100	Isolated Bidirectional DC-DC Converter for Hybrid Electric Vehicle Application 2006,		6
99	Design of a Double-Sided LCLC Compensated Capacitive Power Transfer System with Predesigned Coupler Plate Voltage Stresses. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics,</i> 2020, 1-1	5.6	6
98	Identification of Fractional Differential Models for Lithium-ion Polymer Battery Dynamics. <i>IFAC-PapersOnLine,</i> 2017, 50, 405-410	0.7	5
97	A novel state-of-charge estimation method for lithium-ion battery pack of electric vehicles 2015,		5
96	Interoperability study of fast wireless charging and normal wireless charging of electric vehicles with a shared receiver. <i>IET Power Electronics,</i> 2019, 12, 2551-2558	2.2	5
95	A novel soft-switching bidirectional DC-DC converter with coupled inductors 2013,		5
94	Modeling of the Starting Performance of Large Solid-Pole Synchronous Motors Using Equivalent Circuit Approach. <i>IEEE Transactions on Magnetics,</i> 2009, 45, 5399-5404	2	5
93	MODELING OF EDDY CURRENT LOSS AND TEMPERATURE OF THE MAGNETS IN PERMANENT MAGNET MACHINES. <i>Journal of Circuits, Systems and Computers,</i> 2011, 20, 1287-1301	0.9	5
92	A functional model of silicon carbide JFET and its use in the analysis of switching-transient and impact of gate resistor, miller effect and parasitic inductance. <i>International Journal of Power Electronics,</i> 2010, 2, 164	0.2	5
91	Foreign object detection in wireless power transfer systems. <i>IEEE Transactions on Industry Applications,</i> 2021, 1-1	4.3	5
90	Eddy Current Loss Analysis of Underwater Wireless Power Transfer System 2018,		5
89	A Compact Spatial Free-Positioning Wireless Charging System for Consumer Electronics Using a Three-Dimensional Transmitting Coil. <i>Energies,</i> 2019, 12, 1409	3.1	4
88	Long-distance wireless power transfer system powering multiple loads with constant voltage outputs using S-SP compensation. <i>IET Power Electronics,</i> 2020, 13, 1729-1734	2.2	4
87	Repeater coil-based wireless power transfer system powering multiple gate drivers of series-connected IGBTs. <i>IET Power Electronics,</i> 2020, 13, 1722-1728	2.2	4
86	Design and optimization of a dielectric-gas-based single-phase electrostatic motor 2018,		4
85	Investigation of negative permeability metamaterials for wireless power transfer. <i>AIP Advances,</i> 2017, 7, 115316	1.5	4
84	A delta-structured switched-capacitor equalizer for series-connected battery strings 2017,		4
83	Loss minimization-based charging strategy for lithium-ion battery 2014,		4

82	Correction to "Eliminate Reactive Power and Increase System Efficiency of Isolated Bidirectional Dual-Active-Bridge DCDC Converters Using Novel Dual-Phase-Shift Control" [Nov 08 2905-2914]. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 4177-4177	7.2	4
81	The impact of bidirectional DC-DC converter on the inverter operation and battery current in hybrid electric vehicles 2011 ,		4
80	Accurate and reliable state of charge estimation of lithium ion batteries using time-delayed recurrent neural networks through the identification of overexcited neurons. <i>Applied Energy</i> , 2022 , 305, 117962	10.7	4
79	An inductive and capacitive integrated coupler and its LCL compensation circuit design for wireless power transfer 2016 ,		4
78	A Wireless Power Transfer System with Multiple Constant Current and Constant Voltage Outputs 2019 ,		4
77	Capacitive Power Transfer for EV Chargers Coupler 2017 , 435-455		3
76	Development of a Dielectric-Gas-Based Single-Phase Electrostatic Motor. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 2592-2600	4.3	3
75	Guest Editorial Special Issue on Wireless Power Transfer. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 6015-6016	7.2	3
74	A control method to improve the efficiency of a soft-switching non-isolated bidirectional DC-DC converter for hybrid and plug-in electric vehicle applications. <i>International Journal of Power Electronics</i> , 2014 , 6, 66	0.2	3
73	A star-structured switched-capacitor equalizer for series-connected battery strings 2017 ,		3
72	A model-based dead-band compensation for the dual-active-bridge isolated bidirectional DCDC converter. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2011 , 6, 517-524	1	3
71	Modeling and Simulation of Electric and Hybrid Vehicles 2011 , 363-384		3
70	Design and Control of an Isolated Bidirectional DC-DC Converter for Hybrid Electric Vehicle Applications. <i>Journal of Asian Electric Vehicles</i> , 2006 , 4, 851-856	0.3	3
69	A Multi-load Capacitive Power Relay System with Load-independent Constant Current Outputs. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	3
68	An LC compensated electric field repeater for long distance capacitive power transfer 2016 ,		3
67	A Multi-load Wireless Power Transfer System with Constant Voltage Outputs Using S-LCC Compensation 2019 ,		3
66	An NFC-CPT-Combined Coupler With Series- None Compensation for Metal-Cover Smartphone Applications. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 3758-3769	5.6	3
65	Vehicle Power Management: Basic Concepts. <i>Power Systems</i> , 2011 , 13-48	0.4	3

64	Improved battery modeling approach considering operating scenarios for HEV/EV applications 2017,		2
63	External short circuit fault diagnosis based on supervised statistical learning 2017,		2
62	A data-driven bias correction method based lithium-ion battery modeling approach for electric vehicles application 2014,		2
61	. <i>IEEE Transactions on Industry Applications</i> , 2015 , 1-1	4.3	2
60	Management of Energy Storage Systems in EV, HEV and PHEV. <i>Power Systems</i> , 2011 , 259-286	0.4	2
59	Power management of passive multi-source hybrid electric vehicle 2011,		2
58	Batteries, Ultracapacitors, Fuel Cells, and Controls 2011 , 315-362		2
57	A bidirectional power converter for battery of plug-in hybrid electric vehicles 2010,		2
56	Nanoparticle Heat Transfer and Its Application to Laser Hyperthermia 2007 , 1093		2
55	A Two-Layer Real-Time Optimization Control Strategy for Integrated Battery Thermal Management and HVAC System in Connected and Automated HEVs. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 6567-6576	6.8	2
54	A reverse-coupled bipolar coil structure for an integrated LCC-compensated inductive power transfer system 2018,		2
53	A finite-set model-based predictive battery thermal management in connected and automated hybrid electric vehicles 2018,		2
52	A correlation based detection method for internal short circuit in battery packs 2017,		1
51	Guest EditorialSpecial Issue on Wireless Power Transfer. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2015 , 3, 1-3	5.6	1
50	An LCL-N Compensated Strongly-Coupled Wireless Power Transfer System for High-Power Applications 2019,		1
49	2015,		1
48	Effectively dealing with uncontrolled generation of traction motors in hybrid electric vehicles 2011,		1
47	Electric Machines and Drives in HEVs 2011 , 245-313		1

46	HEV Component Sizing and Design Optimization 2011 , 385-412		1
45	Advanced HEV Architectures and Dynamics of HEV Powertrain 2011 , 69-106		1
44	Analysis of Dual Phase Lag Heat Conduction in Gold Nanoparticle Based Hyperthermia Treatment 2008 ,		1
43	Comprehensive Modeling of Automotive Ignition Systems 2007 ,		1
42	Modeling of the Starting Performance of Large Solid-pole Synchronous Motors Using Equivalent Circuit Approach. <i>IEEE Power Engineering Society General Meeting</i> , 2007 ,		1
41	Metal-rim-connected inductive coupler for smartwatch applications. <i>IET Power Electronics</i> , 2020 , 13, 3428-3434		1
40	State-of-health Estimation for Lithium-ion Batteries Based on Decoupled Dynamic Characteristic of Constant-voltage Charging Current. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	1
39	Wavelet Technology in Vehicle Power Management. <i>Power Systems</i> , 2011 , 141-178	0.4	1
38	Electric and Hybrid Vehicles. <i>Proceedings of the IEEE</i> , 2021 , 109, 962-966	14.3	1
37	A Novel Ultrafast Transient Constant on-Time Buck Converter for Multiphase Operation. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 13096-13106	7.2	1
36	Modeling of Vehicle Propulsion Systems. <i>Power Systems</i> , 2011 , 49-105	0.4	1
35	Analytical Approach for the Power Management of Blended Mode PHEV. <i>Power Systems</i> , 2011 , 107-139	0.4	1
34	Lithium-ion battery capacity estimation based on battery surface temperature change under constant-current charge scenario. <i>Energy</i> , 2022 , 241, 122879	7.9	0
33	A Two-Stage Real-Time Optimized EV Battery Cooling Control Based on Hierarchical and Iterative Dynamic Programming and MPC. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-11	6.1	0
32	Electric Machines and Drives in HEVs 2017 , 261-332		
31	HEV Fundamentals 2017 , 45-71		
30	Advanced HEV Architectures and Dynamics of HEV Powertrain 2017 , 73-109		
29	Special Hybrid Vehicles 2017 , 143-174		

28 EV and PHEV Battery Charger Design **2017**, 385-408

27 Power Electronics in HEVs **2017**, 211-259

26 Hybrid Powertrains **2018**, 389-429

25 Electric Powertrains **2018**, 333-388

24 Diagnostics, Prognostics, Reliability, EMC, and Other Topics Related to HEVs **2017**, 189-209

23 Wireless Power Transfer for Electric Vehicle Applications **2017**, 461-520

22 HEV Component Sizing and Design Optimization **2017**, 433-460

21 Power Electronic Devices, Circuits, Topology, and Control **2011**, 1-18

20 Power Semiconductor Devices, Integrated Power Circuits, and their Short-Timescale Transients **2011**, 47-69

19 Power Electronics in Electric and Hybrid Vehicles **2011**, 71-128

18 Power Electronics in Alternative Energy and Advanced Power Systems **2011**, 129-156

17 Power Electronics in Battery Management Systems **2011**, 157-181

16 Dead-Band Effect and Minimum Pulse Width **2011**, 183-213

15 Future Trends of Power Electronics **2011**, 249-268

14 Macroscopic and Microscopic Factors in Power Electronic Systems **2011**, 19-45

13 Vehicular Power Control Strategy and Energy Management **2011**, 413-429

12 Commercialization and Standardization of HEV Technology and Future Transportation **2011**, 431-434

11 Concept of Hybridization of the Automobile **2011**, 27-39

10 HEV Applications for Military Vehicles **2011**, 163-175

9 Modulated Error in Power Electronic Systems **2011**, 215-247

8 Special Section on Vehicle Power and Propulsions. *IEEE Transactions on Vehicular Technology*, **2010**, 59, 2638-2640 6.8

7 Guest Editorial Special Issue on Advanced and Emerging Technologies of High-efficiency and Long-distance Wireless Power Transfer Systems. *IEEE Transactions on Industry Applications*, **2021**, 1-1 4.3

6 Intelligent System Approaches for Vehicle Power Management. *Power Systems*, **2011**, 209-257 0.4

5 Hardware-in-the-loop and Software-in-the-loop Testing for Vehicle Power Management. *Power Systems*, **2011**, 303-329 0.4

4 Dynamic Programming and Quadratic Programming for Vehicle Power Management. *Power Systems*, **2011**, 179-208 0.4

3 HEV Component Design and Optimization for Fuel Economy. *Power Systems*, **2011**, 287-301 0.4

2 Future Trends in Vehicle Power Management. *Power Systems*, **2011**, 331-341 0.4

1 Uncontrolled Generation of Traciton Motors in Hybrid Electric Vehicles. *Journal of Asian Electric Vehicles*, **2011**, 9, 1459-1464 0.3