

Fei Lu

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.

154
papers

7,497
citations

41
h-index

85
g-index

170
ext. papers

10,036
ext. citations

6
avg, IF

6.86
L-index

#	Paper	IF	Citations
154	A -type Compensated Ferrite-Free Domino IPT System for DC Circuit Breakers. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	0
153	Fault Current Bypass-Based LVDC Solid-State Circuit Breakers. <i>IEEE Transactions on Power Electronics</i> , 2022 , 37, 7-13	7.2	11
152	Multiphase Interleaved IPT Based Current-Source Converter for High-Current Application. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , 2022 , 1-1	2.6	0
151	Investigation of Limitations in Passive Voltage Clamping-Based Solid-State DC Circuit Breakers. <i>IEEE Open Journal of Power Electronics</i> , 2022 , 1-1	2.5	0
150	High-Frequency High Step-Up Inductive Power Transfer-Based Capacitor Charger in Active Injection DC Circuit Breakers. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , 2022 , 1-1	2.6	0
149	Medium Voltage Pulse Power Generator for Accurate Current Interruption. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	1
148	Fault Current Bypass-Based DC SSCB Using TIM-Pack Switch. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	1
147	Compact Z-Impedance Compensation for Inductive Power Transfer and Its Capacitance Tuning Method. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	
146	Capacitive Couple-based Transient Current Commutation in Solid-State Circuit Breakers. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	3
145	Guest Editorial Special Issue on Advanced and Emerging Technologies of High-efficiency and Long-distance Wireless Power Transfer Systems. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	
144	Review, Analysis, and Design of Four Basic CPT Topologies and the Application of High-Order Compensation Networks. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	6
143	Output Power Regulation of a Series-Series IPT System Based on Hybrid Voltage and Frequency Tuning Method for EV Charging. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1
142	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
141	Implementing Symmetrical Structure in MOV-RCD Snubber-Based DC Solid-State Circuit Breakers. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	5
140	Sensitivity Investigation and Mitigation on Power and Efficiency to Resonant Parameters in an LCC Network for Inductive Power Transfer. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , 2021 , 1-1	2.6	2
139	Modeling and Control of An Integrated Self-Heater for Automotive Batteries Based on Traction Motor Drive Reconfiguration. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	2
138	DC Circuit Breakers: A Technology Development Status Survey. <i>IEEE Transactions on Smart Grid</i> , 2021 , 1-1	10.7	4

137	Output Power Control of an S-S IPT System Based on Voltage and Frequency Tuning for EV Charging 2021 ,		1
136	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
135	Wireless Series-Parallel Capacitor Charger for DC Circuit Breaker Applications 2021 ,		3
134	Revolution of Electric Vehicle Charging Technologies Accelerated by Wide Bandgap Devices. <i>Proceedings of the IEEE</i> , 2021 , 109, 985-1003	14.3	17
133	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
132	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
131	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
130	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
129	A New Approach to Model Reverse Recovery Process of a Thyristor for HVdc Circuit Breaker Testing. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 1591-1601	7.2	6
128	Comprehensive Design and Optimization of an Onboard Resonant Self-Heater for EV Battery. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 7, 452-463	7.6	4
127	An S-CLC Compensated Load-Independent Inductive Power Relay System With Constant Voltage Outputs. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 5157-5168	7.2	5
126	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
125	A 4kV/120A SiC Solid-State DC Circuit Breaker Powered by a Load-independent IPT System. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	8
124	Current-Fed Capacitive Power Transfer with Parallel-Series Compensation for Voltage Step-Down. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , 2021 , 1-1	2.6	2
123	High-Efficiency Bilateral S-SP Compensated Multiloop IPT System with Constant-Voltage Outputs. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 1-1	11.9	5
122	Foreign object detection in wireless power transfer systems. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	5
121	. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , 2021 , 1-1	2.6	6
120	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	6

119	Overvoltage Estimation by Stray Inductances During Turn-off of a 500 kV/25 kA DC Circuit Breaker. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 7400-7406	7.2	12
118	A Domino-Type Load-Independent Inductive Power Transfer System With Hybrid Constant-Current and Constant-Voltage Outputs. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 8824-8834	7.2	8
117	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
116	Capacitive Power Transfer with Series-Parallel Compensation for Step-Up Voltage Output. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	5
115	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	5
114	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
113	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
112	A Metal Object Detection System with Multilayer Detection Coil Layouts for Electric Vehicle Wireless Charging. <i>Energies</i> , 2020 , 13, 2960	3.1	6
111	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
110	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
109	Metal-rim-connected inductive coupler for smartwatch applications. <i>IET Power Electronics</i> , 2020 , 13, 3428-3434	2.2	4
108	Review of Load-Independent Constant-Current and Constant-Voltage Topologies for Domino-Type Multiple-Load Inductive Power Relay System. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , 2020 , 1-1	2.6	10
107	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
106	Insulated Coupler Structure Design for the Long-Distance Freshwater Capacitive Power Transfer. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 5191-5201	11.9	7
105	Three-Coil Wireless Charging System for Metal-Cover Smartphone Applications. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 4847-4858	7.2	18
104	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
103	Innovated Approach of Predictive Thermal Management for High-Speed Propulsion Electric Machines in More Electric Aircraft. <i>IEEE Transactions on Transportation Electrification</i> , 2020 , 6, 1551-1561	7.6	5
102	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

101	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
100	Feasibility Study of the High-Power Underwater Capacitive Wireless Power Transfer for the Electric Ship Charging Application 2019 ,		7
99	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
98	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
97	Development of a Dielectric-Gas-Based Single-Phase Electrostatic Motor. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 2592-2600	4.3	3
96	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
95	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
94	An Improved Design Methodology of the Double-Sided LC-Compensated CPT System Considering the Inductance Detuning. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 11396-11406	7.2	15
93	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
92	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
91	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
90	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
89	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
88	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
87	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
86	A Compact Onboard Battery Self-Heater for All-Electric Aircraft Applications at Cold Climates 2019 ,		1
85	Long-Distance and High-Power Capacitive Power Transfer based on the Double-Sided LC Compensation: Analysis and Design 2019 ,		3
84	A 2m Quasi-Wireless Capacitive Power Transfer (CPT) System Using Earth Ground as the Current-Returning Path 2019 ,		2

83	Optimized Design of an Onboard Resonant Self-Heater for Automotive Lithium-Ion Batteries at Cold Climates 2019 ,		3
82	Study on Parasitic Capacitance Effect in High Power Inductive Power Transfer System 2019 ,		3
81	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
80	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
79	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
78	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
77	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
76	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
75	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
74	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
73	Design and optimization of a dielectric-gas-based single-phase electrostatic motor 2018 ,		4
72	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
71	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
70	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
69	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
68	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
67	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
66	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

65	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
64	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
63	Eddy Current Loss Analysis of Underwater Wireless Power Transfer System 2018 ,		5
62	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
61	A reverse-coupled bipolar coil structure for an integrated LCC-compensated inductive power transfer system 2018 ,		2
60	A finite-set model-based predictive battery thermal management in connected and automated hybrid electric vehicles 2018 ,		2
59	A Delta-Structured Switched-Capacitor Equalizer for Series-Connected Battery Strings. <i>IEEE Transactions on Power Electronics</i> , 2018 , 1-1	7.2	35
58	. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 1638-1650	7.2	153
57	An Automatic Equalizer Based on ForwardFlyback Converter for Series-Connected Battery Strings. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 5380-5391	8.9	83
56	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
55	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
54	A high efficiency and compact inductive power transfer system compatible with both 3.3kW and 7.7kW receivers 2017 ,		6
53	A switched-coupling-capacitor equalizer for series-connected battery strings 2017 ,		11
52	A Switched-Coupling-Capacitor Equalizer for Series-Connected Battery Strings. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 7694-7706	7.2	64
51	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
50	Investigation of negative permeability metamaterials for wireless power transfer. <i>AIP Advances</i> , 2017 , 7, 115316	1.5	4
49	A star-structured switched-capacitor equalizer for series-connected battery strings 2017 ,		3
48	A dual-coupled LCC-compensated IPT system to improve misalignment performance 2017 ,		9

47	A Review on the Recent Development of Capacitive Wireless Power Transfer Technology. <i>Energies</i> , 2017 , 10, 1752	3.1	114
46	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
45	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
44	A CLLC-compensated high power and large air-gap capacitive power transfer system for electric vehicle charging applications 2016 ,		63
43	A large air-gap capacitive power transfer system with a 4-plate capacitive coupler structure for electric vehicle charging applications 2016 ,		7
42	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
41	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
40	. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 6546-6556	8.9	115
39	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
38	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 4779-4789	6.8	32
37	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 4768-4778	6.8	402
36	A loosely coupled capacitive power transfer system with LC compensation circuit topology 2016 ,		18
35	An LC compensated electric field repeater for long distance capacitive power transfer 2016 ,		3
34	An inductive and capacitive integrated coupler and its LCL compensation circuit design for wireless power transfer 2016 ,		4
33	A dynamic capacitive power transfer system with reduced power pulsation 2016 ,		13
32	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
31	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
30	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

29	Guest Editorial Special Issue on Wireless Power Transfer. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2015 , 3, 1-3	5.6	1
28	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
27	Guest Editorial Special Issue on Wireless Power Transfer. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 6015-6016	7.2	3
26	ZVS double-side LCC compensated resonant inverter with magnetic integration for electric vehicle wireless charger 2015 ,		11
25	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
24	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
23	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
22	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
21	Output power and efficiency sensitivity to circuit parameter variations in double-sided LCC-compensated wireless power transfer system 2015 ,		35
20	A high efficiency 3.3 kW loosely-coupled wireless power transfer system without magnetic material 2015 ,		33
19	Loss-Minimization-Based Charging Strategy for Lithium-Ion Battery. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 4121-4129	4.3	41
18	. <i>IEEE Transactions on Vehicular Technology</i> , 2014 , 63, 1581-1592	6.8	188
17	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
16	A data-driven bias correction method based lithium-ion battery modeling approach for electric vehicles application 2014 ,		2
15	Feasibility study on bipolar pads for efficient wireless power chargers 2014 ,		71
14	Loss minimization-based charging strategy for lithium-ion battery 2014 ,		4
13	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
12	Development of a high efficiency primary side controlled 7kW wireless power charger 2014 ,		24

11	Design of a high efficiency 22 kW wireless power transfer system for EVs fast contactless charging stations 2014 ,		19
10	A Comparison Study of the Model Based SOC Estimation Methods for Lithium-Ion Batteries 2013 ,		14
9	A High-Efficiency Active Battery-Balancing Circuit Using Multiwinding Transformer. <i>IEEE Transactions on Industry Applications</i> , 2013 , 49, 198-207	4.3	164
8	An Improved Soft-Switching Buck Converter With Coupled Inductor. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 4885-4891	7.2	42
7	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
6	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
5	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
4	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
3	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
2	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
1	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