Fei Lu

List of Publications by Year
in descending order

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170 papers	12,466 citations	38742 50 h-index	26613 107 g-index
170 all docs	170 docs citations	170 times ranked	5219 citing authors

#	Article	IF	Citations
1	Modeling and Control of an Integrated Self-Heater for Automotive Batteries Based on Traction Motor Drive Reconfiguration. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 384-395.	5.4	11
2	Medium Voltage Pulse Power Generator for Accurate Current Interruption. IEEE Transactions on Industrial Electronics, 2023, 70, 3604-3615.	7.9	4
3	Fault Current Bypass-Based DC SSCB Using TIM-Pack Switch. IEEE Transactions on Industrial Electronics, 2023, 70, 4300-4304.	7.9	9
4	Compact Z-Impedance Compensation for Inductive Power Transfer and its Capacitance Tuning Method. IEEE Transactions on Industrial Electronics, 2023, 70, 3627-3640.	7.9	3
5	Design of a Double-Sided LCLC-Compensated Capacitive Power Transfer System With Predesigned Coupler Plate Voltage Stresses. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 128-137.	5.4	11
6	A Two-Stage Real-Time Optimized EV Battery Cooling Control Based on Hierarchical and Iterative Dynamic Programming and MPC. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 11677-11687.	8.0	11
7	A 4 kV/120 A SiC Solid-State DC Circuit Breaker Powered By a Load-Independent IPT System. IEEE Transactions on Industry Applications, 2022, 58, 1115-1125.	4.9	17
8	Current-Fed Capacitive Power Transfer With Parallelâ€“Series Compensation for Voltage Step-Down. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 454-464.	3.9	8
9	High-Efficiency Bilateral Sâ€“SP Compensated Multiload IPT System With Constant-Voltage Outputs. IEEE Transactions on Industrial Informatics, 2022, 18, 901-910.	11.3	8
10	Foreign Object Detection in Wireless Power Transfer Systems. IEEE Transactions on Industry Applications, 2022, 58, 1340-1354.	4.9	38
11	Ultrafast Solid-State Circuit Breaker With a Modular Active Injection Circuit. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 733-743.	3.9	10
12	A DC Solid-State Circuit Breaker Based on Transient Current Commutation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4614-4625.	5.4	17
13	Fault Current Bypass-Based LVDC Solid-State Circuit Breakers. IEEE Transactions on Power Electronics, 2022, 37, 7-13.	7.9	28
14	Capacitive Power Transfer With Series-Parallel Compensation for Step-Up Voltage Output. IEEE Transactions on Industrial Electronics, 2022, 69, 5604-5614.	7.9	13
15	Coordination of Ultrafast Solid-State Circuit Breakers in Radial DC Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4690-4702.	5.4	15
16	Sensitivity Investigation and Mitigation on Power and Efficiency to Resonant Parameters in an LCC Network for Inductive Power Transfer. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 443-453.	3.9	4
17	DC Circuit Breakers: A Technology Development Status Survey. IEEE Transactions on Smart Grid, 2022, 13, 3915-3928.	9.0	29
18	Review of Load-Independent Constant-Current and Constant-Voltage Topologies for Domino-Type Multiple-Load Inductive Power Relay System. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 199-210.	3.9	21

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19	Capacitive Couple-Based Transient Current Commutation in Solid-State Circuit Breakers. IEEE Transactions on Power Electronics, 2022, 37, 4973-4978.	7.9	10
20	Review, Analysis, and Design of Four Basic CPT Topologies and the Application of High-Order Compensation Networks. IEEE Transactions on Power Electronics, 2022, 37, 6181-6193.	7.9	32
21	Output Power Regulation of a Series-Series Inductive Power Transfer System Based on Hybrid Voltage and Frequency Tuning Method for Electric Vehicle Charging. IEEE Transactions on Industrial Electronics, 2022, 69, 9927-9937.	7.9	5
22	State-of-Health Estimation for Lithium-Ion Batteries Based on Decoupled Dynamic Characteristic of Constant-Voltage Charging Current. IEEE Transactions on Transportation Electrification, 2022, 8, 2070-2079.	7.8	19
23	Implementing Symmetrical Structure in MOV-RCD Snubber-Based DC Solid-State Circuit Breakers. IEEE Transactions on Power Electronics, 2022, 37, 6051-6061.	7.9	28
24	A Ï€-type Compensated Ferrite-Free Domino IPT System for DC Circuit Breakers. IEEE Transactions on Power Electronics, 2022, 37, 7518-7527.	7.9	2
25	Multiphase Interleaved IPT Based Current-Source Converter for High-Current Application. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 583-593.	3.9	2
26	Investigation of Limitations in Passive Voltage Clamping-Based Solid-State DC Circuit Breakers. IEEE Open Journal of Power Electronics, 2022, 3, 209-221.	5.7	11
27	High-Frequency High Step-Up Inductive Power Transfer-Based Capacitor Charger in Active Injection DC Circuit Breakers. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 572-582.	3.9	4
28	Advanced Wireless Power Transfer Technologies. Energies, 2022, 15, 3131.	3.1	0
29	Compact PCB Coil-based Bilateral Inductive Power Relay System Powering Multiple Gate Drivers with Reliable Voltage Isolation. , 2022, , .		0
30	An Ultra-Fast Wireless Charging System with a Hull-Compatible Coil Structure for Autonomous Underwater Vehicles (AUVs). , 2022, , .		7
31	A Diode-Free MOV²-RC Snubber for Solid-State Circuit Breaker. , 2022, , .		1
32	A 4kV/100A DC Solid-State Circuit Breaker with Soft Turn-off Operation. , 2022, , .		2
33	Realizing Constant Current and Constant Voltage Outputs and Input Zero Phase Angle of Wireless Power Transfer Systems With Minimum Component Counts. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 600-610.	8.0	61
34	An NFC-CPT-Combined Coupler With Series- None Compensation for Metal-Cover Smartphone Applications. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3758-3769.	5.4	12
35	A Power Relay System With Multiple Loads Using Asymmetrical Coil Design. IEEE Transactions on Industrial Electronics, 2021, 68, 1188-1196.	7.9	27
36	A New Approach to Model Reverse Recovery Process of a Thyristor for HVdc Circuit Breaker Testing. IEEE Transactions on Power Electronics, 2021, 36, 1591-1601.	7.9	16

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37	Comprehensive Design and Optimization of an Onboard Resonant Self-Heater for EV Battery. IEEE Transactions on Transportation Electrification, 2021, 7, 452-463.	7.8	13
38	An S-CLC Compensated Load-Independent Inductive Power Relay System With Constant Voltage Outputs. IEEE Transactions on Power Electronics, 2021, 36, 5157-5168.	7.9	12
39	A Z-Class LCC-P Compensated IPT System with a Reverse Coupled Compensation Inductor. , 2021, , .		0
40	Output Power Control of an S-S IPT System Based on Voltage and Frequency Tuning for EV Charging. , 2021, , .		3
41	An NFC-Connected Coupler Using IPT-CPT-Combined Wireless Charging for Metal-Cover Smartphone Applications. IEEE Transactions on Power Electronics, 2021, 36, 6323-6338.	7.9	31
42	A Load-independent Domino IPT System with Ï€-type Compensation Network. , 2021, , .		0
43	A Double-sided Z-Impedance Compensated Inductive Power Transfer System. , 2021, , .		2
44	Wireless Series-Parallel Capacitor Charger for DC Circuit Breaker Applications. , 2021, , .		3
45	Revolution of Electric Vehicle Charging Technologies Accelerated by Wide Bandgap Devices. Proceedings of the IEEE, 2021, 109, 985-1003.	21.3	62
46	A Two-Layer Real-Time Optimization Control Strategy for Integrated Battery Thermal Management and HVAC System in Connected and Automated HEVs. IEEE Transactions on Vehicular Technology, 2021, 70, 6567-6576.	6.3	25
47	Overvoltage Estimation by Stray Inductances During Turn-off of a 500 kV/25 kA DC Circuit Breaker. IEEE Transactions on Power Electronics, 2021, 36, 7400-7406.	7.9	19
48	A Domino-Type Load-Independent Inductive Power Transfer System With Hybrid Constant-Current and Constant-Voltage Outputs. IEEE Transactions on Power Electronics, 2021, 36, 8824-8834.	7.9	18
49	A Novel Ultrafast Transient Constant on-Time Buck Converter for Multiphase Operation. IEEE Transactions on Power Electronics, 2021, 36, 13096-13106.	7.9	7
50	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.	4.9	0
51	A High-Efficiency and Long-Distance Power-Relay System With Equal Power Distribution. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1419-1427.	5.4	33
52	A Load-Independent LCC-Compensated Wireless Power Transfer System for Multiple Loads With a Compact Coupler Design. IEEE Transactions on Industrial Electronics, 2020, 67, 4507-4515.	7.9	76
53	A Multiload Inductive Power Transfer Repeater System With Constant Load Current Characteristics. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 3533-3541.	5.4	15
54	Insulated Coupler Structure Design for the Long-Distance Freshwater Capacitive Power Transfer. IEEE Transactions on Industrial Informatics, 2020, 16, 5191-5201.	11.3	24

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55	Three-Coil Wireless Charging System for Metal-Cover Smartphone Applications. IEEE Transactions on Power Electronics, 2020, 35, 4847-4858.	7.9	31
56	Innovated Approach of Predictive Thermal Management for High-Speed Propulsion Electric Machines in More Electric Aircraft. IEEE Transactions on Transportation Electrification, 2020, 6, 1551-1561.	7.8	15
57	An Electric Roadway System Leveraging Dynamic Capacitive Wireless Charging: Furthering the Continuous Charging of Electric Vehicles. IEEE Electrification Magazine, 2020, 8, 52-60.	1.8	26
58	Longâ€distance wireless power transfer system powering multiple loads with constant voltage outputs using Sâ€SP compensation. IET Power Electronics, 2020, 13, 1729-1734.	2.1	7
59	A Metal Object Detection System with Multilayer Detection Coil Layouts for Electric Vehicle Wireless Charging. Energies, 2020, 13, 2960.	3.1	16
60	Repeater coilâ€based wireless power transfer system powering multiple gate drivers of seriesâ€connected IGBTs. IET Power Electronics, 2020, 13, 1722-1728.	2.1	10
61	Core Temperature Estimation for Self-Heating Automotive Lithium-Ion Batteries in Cold Climates. IEEE Transactions on Industrial Informatics, 2020, 16, 3366-3375.	11.3	35
62	Metalâ€rimâ€connected inductive coupler for smartwatch applications. IET Power Electronics, 2020, 13, 3428-3434.	2.1	4
63	A 4kV/100A SiC MOSFETs-based solid state DC circuit breaker with low stray inductances and powered by a load-independent wireless power transfer system. , 2020, , .		4
64	Modeling and Analysis of a Strongly Coupled Seriesâ€“Parallel-Compensated Wireless Power Transfer System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 1364-1370.	5.4	31
65	Wide Design Range of Constant Output Current Using Double-Sided LC Compensation Circuits for Inductive-Power-Transfer Applications. IEEE Transactions on Power Electronics, 2019, 34, 2364-2374.	7.9	50
66	Modeling and Analysis of Series-None Compensation for Wireless Power Transfer Systems With a Strong Coupling. IEEE Transactions on Power Electronics, 2019, 34, 1209-1215.	7.9	75
67	An Integrated Heater Equalizer for Lithium-Ion Batteries of Electric Vehicles. IEEE Transactions on Industrial Electronics, 2019, 66, 4398-4405.	7.9	58
68	Frequency Optimization of a Loosely Coupled Underwater Wireless Power Transfer System Considering Eddy Current Loss. IEEE Transactions on Industrial Electronics, 2019, 66, 3468-3476.	7.9	125
69	Modelling and analysis of the distortion of stronglyâ€coupled wireless power transfer systems with SS and LCCâ€“LCC compensations. IET Power Electronics, 2019, 12, 1321-1328.	2.1	34
70	A Compact and Low-Distortion Inductive Charging System for Automatic Guided Vehicles Based on LCC Compensation and Integrated Magnetic Coupler. , 2019, , .		6
71	Feasibility Study of the High-Power Underwater Capacitive Wireless Power Transfer for the Electric Ship Charging Application. , 2019, , .		17
72	Fault-Tolerant Wireless Power Transfer System With a Dual-Coupled LCC-S Topology. IEEE Transactions on Vehicular Technology, 2019, 68, 11838-11846.	6.3	57

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73	Unified Load-Independent ZPA Analysis and Design in CC and CV Modes of Higher Order Resonant Circuits for WPT Systems. IEEE Transactions on Transportation Electrification, 2019, 5, 977-987.	7.8	71
74	Development of a Dielectric-Gas-Based Single-Phase Electrostatic Motor. IEEE Transactions on Industry Applications, 2019, 55, 2592-2600.	4.9	6
75	A Multi-Load Wireless Power Transfer System With Series-Parallel-Series Compensation. IEEE Transactions on Power Electronics, 2019, 34, 7126-7130.	7.9	76
76	Sensitivity Analysis of Inductive Power Transfer Systems With Voltage-Fed Compensation Topologies. IEEE Transactions on Vehicular Technology, 2019, 68, 4502-4513.	6.3	38
77	An Improved Design Methodology of the Double-Sided LC-Compensated CPT System Considering the Inductance Detuning. IEEE Transactions on Power Electronics, 2019, 34, 11396-11406.	7.9	20
78	A Low-Voltage and High-Current Inductive Power Transfer System With Low Harmonics for Automatic Guided Vehicles. IEEE Transactions on Vehicular Technology, 2019, 68, 3351-3360.	6.3	36
79	High Power Capacitive Power Transfer for Electric Aircraft Charging Application. , 2019, , .		4
80	A Compact Onboard Battery Self-Heater for All-Electric Aircraft Applications at Cold Climates. , 2019, , .		1
81	Long-Distance and High-Power Capacitive Power Transfer based on the Double-Sided LC Compensation: Analysis and Design. , 2019, , .		10
82	Impacts of the Detuning of Compensation Inductances to the Performance of a Double-Sided LC-Compensated CPT System. , 2019, , .		0
83	A 2m Quasi-Wireless Capacitive Power Transfer (CPT) System Using Earth Ground as the Current-Returning Path. , 2019, , .		4
84	Optimized Design of an Onboard Resonant Self-Heater for Automotive Lithium-Ion Batteries at Cold Climates. , 2019, , .		3
85	Study on Parasitic Capacitance Effect in High Power Inductive Power Transfer System. , 2019, , .		8
86	Challenges in the Z-Class Compatible Inductive Power Transfer System Considering the Wide Varying Range of the Coupling Coefficient. , 2019, , .		5
87	The High Order Harmonic Distortion Phenomenon in the Strongly Coupled IPT System and Its Reduction Method. , 2019, , .		3
88	A Novel Capacitive Coupler Array With Free-Positioning Feature for Mobile Tablet Applications. IEEE Transactions on Power Electronics, 2019, 34, 6014-6019.	7.9	26
89	A Tightly Coupled Inductive Power Transfer System for Low-Voltage and High-Current Charging of Automatic Guided Vehicles. IEEE Transactions on Industrial Electronics, 2019, 66, 6867-6875.	7.9	51
90	A New Coil Structure to Reduce Eddy Current Loss of WPT Systems for Underwater Vehicles. IEEE Transactions on Vehicular Technology, 2019, 68, 245-253.	6.3	47

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91	Load-Independent Wireless Power Transfer System for Multiple Loads Over a Long Distance. IEEE Transactions on Power Electronics, 2019, 34, 9279-9288.	7.9	109
92	A Misalignment-Tolerant Series-Hybrid Wireless EV Charging System With Integrated Magnetics. IEEE Transactions on Power Electronics, 2019, 34, 1276-1285.	7.9	194
93	Hybrid Energy Storage System of an Electric Scooter Based on Wireless Power Transfer. IEEE Transactions on Industrial Informatics, 2018, 14, 4169-4178.	11.3	50
94	An Automotive Onboard AC Heater Without External Power Supplies for Lithium-Ion Batteries at Low Temperatures. IEEE Transactions on Power Electronics, 2018, 33, 7759-7769.	7.9	60
95	Integrated Coil Design for EV Wireless Charging Systems Using LCC Compensation Topology. IEEE Transactions on Power Electronics, 2018, 33, 9231-9241.	7.9	93
96	Design and optimization of a dielectric-gas-based single-phase electrostatic motor. , 2018, , .		5
97	Ecological Driving System for Connected/Automated Vehicles Using a Two-Stage Control Hierarchy. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2373-2384.	8.0	41
98	A Dual-Coupled LCC-Compensated IPT System With a Compact Magnetic Coupler. IEEE Transactions on Power Electronics, 2018, 33, 6391-6402.	7.9	112
99	Six-Plate Capacitive Coupler to Reduce Electric Field Emission in Large Air-Gap Capacitive Power Transfer. IEEE Transactions on Power Electronics, 2018, 33, 665-675.	7.9	128
100	A Double-Sided LC-Compensation Circuit for Loosely Coupled Capacitive Power Transfer. IEEE Transactions on Power Electronics, 2018, 33, 1633-1643.	7.9	166
101	Design and Analysis of a Three-Phase Wireless Charging System for Lightweight Autonomous Underwater Vehicles. IEEE Transactions on Power Electronics, 2018, 33, 6622-6632.	7.9	162
102	Model Reference Adaptive Control for Hybrid Electric Vehicle With Dual Clutch Transmission Configurations. IEEE Transactions on Vehicular Technology, 2018, 67, 991-999.	6.3	13
103	A Two-Plate Capacitive Wireless Power Transfer System for Electric Vehicle Charging Applications. IEEE Transactions on Power Electronics, 2018, 33, 964-969.	7.9	134
104	Eddy Current Loss Analysis of Underwater Wireless Power Transfer System. , 2018, , .		8
105	A Rotation-Resilient Wireless Charging System for Lightweight Autonomous Underwater Vehicles. IEEE Transactions on Vehicular Technology, 2018, 67, 6935-6942.	6.3	71
106	A reverse-coupled bipolar coil structure for an integrated LCC-compensated inductive power transfer system. , 2018, , .		4
107	A finite-set model-based predictive battery thermal management in connected and automated hybrid electric vehicles. , 2018, , .		2
108	A Delta-Structured Switched-Capacitor Equalizer for Series-Connected Battery Strings. IEEE Transactions on Power Electronics, 2018, , 1-1.	7.9	74

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109	Robust Predictive Battery Thermal Management Strategy for Connected and Automated Hybrid Electric Vehicles Based on Thermoelectric Parameter Uncertainty. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 1796-1805.	5.4	33
110	A Real-Time Battery Thermal Management Strategy for Connected and Automated Hybrid Electric Vehicles (CAHEVs) Based on Iterative Dynamic Programming. IEEE Transactions on Vehicular Technology, 2018, 67, 8077-8084.	6.3	66
111	A New Integration Method for an Electric Vehicle Wireless Charging System Using LCC Compensation Topology: Analysis and Design. IEEE Transactions on Power Electronics, 2017, 32, 1638-1650.	7.9	237
112	An Automatic Equalizer Based on Forwardâ€“Flyback Converter for Series-Connected Battery Strings. IEEE Transactions on Industrial Electronics, 2017, 64, 5380-5391.	7.9	147
113	An LC-Compensated Electric Field Repeater for Long-Distance Capacitive Power Transfer. IEEE Transactions on Industry Applications, 2017, 53, 4914-4922.	4.9	30
114	An Inductive and Capacitive Integrated Coupler and Its LCL Compensation Circuit Design for Wireless Power Transfer. IEEE Transactions on Industry Applications, 2017, 53, 4903-4913.	4.9	46
115	A high efficiency and compact inductive power transfer system compatible with both 3.3kW and 7.7kW receivers. , 2017, , .		10
116	A switched-coupling-capacitor equalizer for series-connected battery strings. , 2017, , .		18
117	A Switched-Coupling-Capacitor Equalizer for Series-Connected Battery Strings. IEEE Transactions on Power Electronics, 2017, 32, 7694-7706.	7.9	112
118	Adaptive State-of-Charge Estimation Based on a Split Battery Model for Electric Vehicle Applications. IEEE Transactions on Vehicular Technology, 2017, 66, 10889-10898.	6.3	85
119	Investigation of negative permeability metamaterials for wireless power transfer. AIP Advances, 2017, 7, 115316.	1.3	6
120	A star-structured switched-capacitor equalizer for series-connected battery strings. , 2017, , .		5
121	A dual-coupled LCC-compensated IPT system to improve misalignment performance. , 2017, , .		15
122	A Review on the Recent Development of Capacitive Wireless Power Transfer Technology. Energies, 2017, 10, 1752.	3.1	190
123	A loosely coupled capacitive power transfer system with LC compensation circuit topology. , 2016, , .		33
124	An LC compensated electric field repeater for long distance capacitive power transfer. , 2016, , .		6
125	An inductive and capacitive integrated coupler and its LCL compensation circuit design for wireless power transfer. , 2016, , .		8
126	A dynamic capacitive power transfer system with reduced power pulsation. , 2016, , .		24

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127	A Dynamic Charging System With Reduced Output Power Pulsation for Electric Vehicles. IEEE Transactions on Industrial Electronics, 2016, 63, 6580-6590.	7.9	208
128	A review of wireless power transfer for electric vehicles: Prospects to enhance sustainable mobility. Applied Energy, 2016, 179, 413-425.	10.1	336
129	A CLLC-compensated high power and large air-gap capacitive power transfer system for electric vehicle charging applications. , 2016, , .		86
130	A large air-gap capacitive power transfer system with a 4-plate capacitive coupler structure for electric vehicle charging applications. , 2016, , .		13
131	Modern Advances in Wireless Power Transfer Systems for Roadway Powered Electric Vehicles. IEEE Transactions on Industrial Electronics, 2016, 63, 6533-6545.	7.9	607
132	A 4-Plate Compact Capacitive Coupler Design and LCL-Compensated Topology for Capacitive Power Transfer in Electric Vehicle Charging Applications. IEEE Transactions on Power Electronics, 2016, , 1-1.	7.9	209
133	Multi-Paralleled LCC Reactive Power Compensation Networks and Their Tuning Method for Electric Vehicle Dynamic Wireless Charging. IEEE Transactions on Industrial Electronics, 2016, 63, 6546-6556.	7.9	177
134	An Inductive and Capacitive Combined Wireless Power Transfer System With <italic>LC</italic>-Compensated Topology. IEEE Transactions on Power Electronics, 2016, 31, 8471-8482.	7.9	164
135	Loosely Coupled Transformer Coil Design to Minimize EMF Radiation in Concerned Areas. IEEE Transactions on Vehicular Technology, 2016, 65, 4779-4789.	6.3	37
136	Compensation Topologies of High-Power Wireless Power Transfer Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 4768-4778.	6.3	672
137	Comparison Study on SS and Double-Sided LCC Compensation Topologies for EV/PHEV Wireless Chargers. IEEE Transactions on Vehicular Technology, 2016, 65, 4429-4439.	6.3	262
138	Plug-in vs. wireless charging: Life cycle energy and greenhouse gas emissions for an electric bus system. Applied Energy, 2015, 146, 11-19.	10.1	136
139	Loosely Coupled Transformer Structure and Interoperability Study for EV Wireless Charging Systems. IEEE Transactions on Power Electronics, 2015, 30, 6356-6367.	7.9	185
140	Output power and efficiency sensitivity to circuit parameter variations in double-sided LCC-compensated wireless power transfer system. , 2015, , .		49
141	A high efficiency 3.3 kW loosely-coupled wireless power transfer system without magnetic material. , 2015, , .		45
142	Loss-Minimization-Based Charging Strategy for Lithium-Ion Battery. IEEE Transactions on Industry Applications, 2015, 51, 4121-4129.	4.9	67
143	A Double-Sided LCC Compensation Network and Its Tuning Method for Wireless Power Transfer. IEEE Transactions on Vehicular Technology, 2015, 64, 2261-2273.	6.3	781
144	Compact and Efficient Bipolar Coupler for Wireless Power Chargers: Design and Analysis. IEEE Transactions on Power Electronics, 2015, 30, 6130-6140.	7.9	185

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145	Guest EditorialSpecial Issue on Wireless Power Transfer. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 1-3.	5.4	5
146	A Double-Sided <italic>LCLC</italic>-Compensated Capacitive Power Transfer System for Electric Vehicle Charging. IEEE Transactions on Power Electronics, 2015, 30, 6011-6014.	7.9	345
147	Guest Editorial Special Issue on Wireless Power Transfer. IEEE Transactions on Power Electronics, 2015, 30, 6015-6016.	7.9	4
148	ZVS double-side LCC compensated resonant inverter with magnetic integration for electric vehicle wireless charger. , 2015, , .		16
149	Temperature-dependent performance of lithium ion batteries in electric vehicles. , 2015, , .		4
150	Integrated ${LCC} $ Compensation Topology for Wireless Charger in Electric and Plug-in Electric Vehicles. IEEE Transactions on Industrial Electronics, 2015, 62, 4215-4225.	7.9	261
151	Wireless Power Transfer for Electric Vehicle Applications. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 4-17.	5.4	1,450
152	Loss minimization-based charging strategy for lithium-ion battery. , 2014, , .		7
153	Torque Control of IPMSM in the Field Weakening Region with Improved DC-Link Voltage Utilization. IEEE Transactions on Industrial Electronics, 2014, , 1-1.	7.9	37
154	Development of a high efficiency primary side controlled 7kW wireless power charger. , 2014, , .		41
155	Design of a high efficiency 22 kW wireless power transfer system for EVs fast contactless charging stations. , 2014, , .		28
156	Design Methodology of LLC Resonant Converters for Electric Vehicle Battery Chargers. IEEE Transactions on Vehicular Technology, 2014, 63, 1581-1592.	6.3	331
157	Energy Management for a Power-Split Plug-in Hybrid Electric Vehicle Based on Dynamic Programming and Neural Networks. IEEE Transactions on Vehicular Technology, 2014, 63, 1567-1580.	6.3	274
158	A data-driven bias correction method based lithium-ion battery modeling approach for electric vehicles application. , 2014, , .		4
159	Feasibility study on bipolar pads for efficient wireless power chargers. , 2014, , .		108
160	A Comparison Study of the Model Based SOC Estimation Methods for Lithium-Ion Batteries. , 2013, , .		24
161	A High-Efficiency Active Battery-Balancing Circuit Using Multiwinding Transformer. IEEE Transactions on Industry Applications, 2013, 49, 198-207.	4.9	229
162	An Improved Soft-Switching Buck Converter With Coupled Inductor. IEEE Transactions on Power Electronics, 2013, 28, 4885-4891.	7.9	52

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163	State of Charge Estimation of Lithium-Ion Batteries in Electric Drive Vehicles Using Extended Kalman Filtering. IEEE Transactions on Vehicular Technology, 2013, 62, 1020-1030.	6.3	333
164	Battery Cell Identification and SOC Estimation Using String Terminal Voltage Measurements. IEEE Transactions on Vehicular Technology, 2012, 61, 2925-2935.	6.3	49
165	Analytical Approach for the Power Management of Blended-Mode Plug-In Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2012, 61, 1554-1566.	6.3	77
166	Analytical Method for Magnetic Field Calculation in a Low-Speed Permanent-Magnet Harmonic Machine. IEEE Transactions on Energy Conversion, 2011, 26, 862-870.	5.2	79
167	Modeling of the Starting Performance of Large Solid-Pole Synchronous Motors Using Equivalent Circuit Approach. IEEE Transactions on Magnetics, 2009, 45, 5399-5404.	2.1	8
168	Transient Temperature Response of Pulsed-Laser-Induced Heating for Nanoshell-Based Hyperthermia Treatment. IEEE Nanotechnology Magazine, 2009, 8, 697-706.	2.0	11
169	The Short-Time-Scale Transient Processes in High-Voltage and High-Power Isolated Bidirectional DCâ€“DC Converters. IEEE Transactions on Power Electronics, 2008, 23, 2648-2656.	7.9	124
170	An effective fault management scheme and comprehensive double lineâ€frequency ripple propagation analysis for MVDC networks. IET Generation, Transmission and Distribution, 0, , .	2.5	0