Byoung Kuk Lee

List of Publications by Year
in descending order

60 papers	415 citations	1307366 7 h-index	839398 18 g-index
60 all docs	60 docs citations	60 times ranked	420 citing authors

#	Article	IF	Citations
1	Design and Control of Inductive Power Transfer System for Electric Vehicles Considering Wide Variation of Output Voltage and Coupling Coefficient. IEEE Transactions on Power Electronics, 2019, 34, 1197-1208.	5.4	128
2	High-Efficiency Adaptive-Current Charging Strategy for Electric Vehicles Considering Variation of Internal Resistance of Lithium-Ion Battery. IEEE Transactions on Power Electronics, 2019, 34, 3041-3052.	5.4	61
3	Topology and Control Scheme of OBCâ€“LDC Integrated Power Unit for Electric Vehicles. IEEE Transactions on Power Electronics, 2017, 32, 1731-1743.	5.4	49
4	A Mixed SOC Estimation Algorithm with High Accuracy in Various Driving Patterns of EVs. Journal of Power Electronics, 2016, 16, 27-37.	0.9	13
5	A novel li-ion battery pack modeling considerging single cell information and capacity variation. , 2017, , .		12
6	Design and control of inductive power transfer system for electric vehicles considering wide variation of output voltage and coupling coefficient. , 2017, , .		11
7	Power Curve-Fitting Control Method with Temperature Compensation and Fast-Response for All-Metal Domestic Induction Heating Systems. Energies, 2019, 12, 2915.	1.6	10
8	Frequency and Phase-Shift Control of Inductive Power Transfer for EV Charger with LCCL-S Resonant Network Considering Misalignment. Journal of Electrical Engineering and Technology, 2019, 14, 2409-2419.	1.2	10
9	Innovative Modeling Approach for Li-Ion Battery Packs Considering Intrinsic Cell Unbalances and Packaging Elements. Energies, 2019, 12, 356.	1.6	10
10	Design of Double-Layered Detection Coil for Metal Object Detection in Wireless Power Transfer Systems for Electric Vehicles. , 2020, , .		9
11	A novel parallel control for modular energy storage system achieving high performance, redundancy and applicability. , 2017, , .		7
12	Cranking Capability Estimation Algorithm Based on Modeling and Online Update of Model Parameters for Li-Ion SLI Batteries. Energies, 2019, 12, 3365.	1.6	7
13	Integrated Control Strategy for Inductive Power Transfer Systems with Primary-Side LCC Network for Load-Average Efficiency Improvement. Energies, 2019, 12, 312.	1.6	7
14	Control method of input-parallel and output-series connected inverters for plasma generator. , 2018, , .		5
15	Investigation of Vibration and Acoustic Noise Emission of Powder Core Inductors. IEEE Transactions on Power Electronics, 2019, 34, 3633-3645.	5.4	5
16	High efficient power conversion circuit for inductive power transfer charger in electric vehicles. , 2017, , .		4
17	Feasibility Study on All Metal Induction Cooker Systems Considering Topology and Control. , 2018, , .		4
18	Optimal design of hybrid battery energy storage system for minimizing the number of batteries with high efficiency control algorithm based on fuzzy logic. , 2018, , .		4

#	Article	IF	Citations
19	Analysis and Comparison of Topological Configurations for All-Metal Induction Cookers. Journal of Electrical Engineering and Technology, 2019, 14, 2399-2408.	1.2	4
20	Performance Analysis of Magnetic Power Pads for Inductive Power Transfer Systems with Ferrite Structure Variation. Journal of Electrical Engineering and Technology, 2017, 12, 1211-1218.	1.2	4
21	Improved Pulse Density Modulation with a Distribution Algorithm for Semi-Bridgeless Rectifier of Inductive Power Transfer System in Electric Vehicles. , 2019, , .		4
22	Design of optimum self-inductances of magnetic pads in inductive power transfer system for electric vehicles. , 2016, , .		3
23	Comparison and Design of Resonant Network Considering the Characteristics of a Plasma Generator. Energies, 2019, 12, 3156.	1.6	3
24	Control Strategy for Power Conversion Systems in Plasma Generators with High Power Quality and Efficiency Considering Entire Load Conditions. Energies, 2019, 12, 1723.	1.6	3
25	Impedance Tuning Control and Synchronization Technique for Semi-Bridgeless Active Rectifier of IPT System in EV Applications. , 2020, , .		3
26	Design and Implementation of 30-W DC-DC Converter with High Reliability and Temperature Characteristics for Military Applications. , 2019, , .		3
27	Practical Bifurcation Criteria considering Inductive Power Pad Losses in Wireless Power Transfer Systems. Journal of Electrical Engineering and Technology, 2017, 12, 173-181.	1.2	3
28	Current Sensorless ZPA Frequency Tracking Control of IPT System with LCCL-S Topology. , 2019, , .		3
29	Performance analysis of magnetic power pads for inductive power transfer systems with ferrite structure variation. , 2016, , .		2
30	A control of mistuned resonant network of inductive power transfer system with bridgeless rectifier. , 2017, , .		2
31	Power Curve-Fitting Control Method with Temperature Compensation for All-Metal Induction Heating Systems. , 2019, , .		2
32	Threshold Point Calculation Method Using Instantaneous Phase Current for Switch Fault Diagnosis of AC-DC Converters in Hybrid Grid Systems. , 2019, , .		2
33	An Improved High Voltage DC-DC Converter with Partial-Resonant Network for Enhanced Efficiency and Power Density in Electric Vehicle Applications. , 2019, , .		2
34	Enhanced Threshold Point Calculation Algorithm for Switch Fault Diagnosis in Grid Connected 3-Phase ACâ€“DC PWM Converters. Energies, 2019, 12, 1979.	1.6	2
35	Optimal Design of High-Frequency Induction Heating Apparatus for Wafer Cleaning Equipment Using Superheated Steam. Energies, 2020, 13, 6196.	1.6	2
36	Switch Design for a High-Speed Switching Semi - Bridgeless Active Rectifier of Inductive Power Transfer Systems Considering Reverse Recovery Phenomenon. , 2019, , .		2

#	Article	IF	Citations
37	Sensorless active damping method of LCL-filter in grid-connected parallel inverters for battery energy storage systems. , 2017, , .		1
38	Control Strategy of High-frequency AC-AC Converters for Plasma Generators Considering Improvement of Output Power Quality. , 2018, , .		1
39	Optimal Design of Multi-Output LLC Resonant Converter with Independently Regulated Synchronous Single-Switched Power-Regulator. Energies, 2020, 13, 4341.	1.6	1
40	Design and Current Unbalance Control Method for a Center-Tapped LLC Resonant Converter on UHD TV. Journal of Electrical Engineering and Technology, 2020, 15, 1735-1744.	1.2	1
41	Variable DC-Link Voltage Control Algorithm of Power Converter for Plasma Generators. Journal of Electrical Engineering and Technology, 2020, 15, 713-720.	1.2	1
42	Diagnosis of LIB Degradation using Estimating Cell Resistance for Hybrid Electric Vehicles. Journal of Electrical Engineering and Technology, 2016, 11, 1195-1201.	1.2	1
43	Light Load Efficiency Improvement in Variable DC-link Voltage Inverter Systems for Home Appliances. Journal of Electrical Engineering and Technology, 2016, 11, 1274-1281.	1.2	1
44	Analysis on Harmonic Loss of IPMSM for the Variable DC-link Voltage through the FEM-Control Coupled Analysis. Journal of Electrical Engineering and Technology, 2017, 12, 225-229.	1.2	1
45	An Online State-of-Health Estimation Algorithm for Electric Vehicles through Aging Tendency of Open Circuit Voltage. , 2019, , .		1
46	Design and Control of the Adjustable Turn-ratio LLC Converter for High-Efficiency Operation of Wired/Wireless Integrated EV Charging System. , 2022, , .		1
47	Integrated control of bridge type inductive power transfer systems for light load efficiency improvement. , 2018, , .		0
48	DC-Link Variable Control of 2-Stage Plasma Generator for Improvement of Efficiency in Intermediate-Load and Light-Load Conditions. , 2018, , .		0
49	Bridgeless Rectifier Control of Wireless Power Transfer to Improve Efficiency. , 2019, , .		0
50	Study on Performance of Vehicle with Different Types of 12ÂV Starter Batteries Using HILS. Journal of Electrical Engineering and Technology, 2019, 14, 1973-1982.	1.2	0
51	Optimal Design Procedure of Inductive Power Transfer Converters according to Various Vertical Distances. , 2019, , .		0
52	Resonance Circuit Design for Current Ripple Reduction of Semi-Bridgeless Rectifier Applying PDM Control in IPT System. , 2019, , .		0
53	Analysis of Equivalent Circuit Model Parameter Change Tendency Based on C-rate of NMC Battery. , 2019, , .		0
54	Real-Time Battery Cell Screening Algorithm to Estimate Available Maximum Charging/Discharging Current Considering Cell Deviation. , 2020, , .		0

#	Article	IF	Citations
55	Feasibility on High Frequency Resonant Networks for Induction Heating Superheated Steam Generators for Wafer Cleaning Systems. , 2020, , .		0
56	An Analysis for Gate-source Voltage of GaN HEMT Focused on Mutual Switch Effect in Half-Bridge Structure. Transactions of the Korean Institute of Electrical Engineers, 2016, 65, 1664-1671.	0.1	0
57	Three Phase PWM Converter Operation Strategy to Improve Performance for Considering Magnetic Power Supply Characteristics. , 2019, , .		0
58	A Comparative Analysis of Online Update Techniques for Battery Model Parameters Considering Complexity and Estimation Accuracy. , 2019, , .		0
59	Online Cell Screening Algorithm for Maximum Peak Current Estimation of a Lithium-Ion Battery Pack for Electric Vehicles. Energies, 2022, 15, 1423.	1.6	0
60	Remaining Useful Life Prediction Considering Operating Condition Change Based on Regression and Empirical Mode Decomposition. , 2022, , .		0