Byoung Kuk Lee

List of Publications by Citations

34 papers	197 citations	6 h-index	13 g-index
60 ext. papers	318 ext. citations	2.7 avg, IF	3.85 L-index

#	Paper	IF	Citations
34	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	7.2	72
33	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	7.2	30
32	Topology and Control Scheme of OBC□DC Integrated Power Unit for Electric Vehicles. *IEEE Transactions on Power Electronics*, **2017**, 32, 1731-1743	7.2	20
31	A Mixed SOC Estimation Algorithm with High Accuracy in Various Driving Patterns of EVs. *Journal of Power Electronics*, **2016**, 16, 27-37	0.9	11
30	Power Curve-Fitting Control Method with Temperature Compensation and Fast-Response for All-Metal Domestic Induction Heating Systems. *Energies*, **2019**, 12, 2915	3.1	8
29	Innovative Modeling Approach for Li-Ion Battery Packs Considering Intrinsic Cell Unbalances and Packaging Elements. *Energies*, **2019**, 12, 356	3.1	6
28	Integrated Control Strategy for Inductive Power Transfer Systems with Primary-Side LCC Network for Load-Average Efficiency Improvement. *Energies*, **2019**, 12, 312	3.1	5
27	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	1.4	4
26	Design and control of inductive power transfer system for electric vehicles considering wide variation of output voltage and coupling coefficient **2017**,		3
25	Investigation of Vibration and Acoustic Noise Emission of Powder Core Inductors. *IEEE Transactions on Power Electronics*, **2019**, 34, 3633-3645	7.2	3
24	Cranking Capability Estimation Algorithm Based on Modeling and Online Update of Model Parameters for Li-Ion SLI Batteries. *Energies*, **2019**, 12, 3365	3.1	3
23	A novel li-ion battery pack modeling considerging single cell information and capacity variation **2017**,		3
22	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	1.4	3
21	Improved Pulse Density Modulation with a Distribution Algorithm for Semi-Bridgeless Rectifier of Inductive Power Transfer System in Electric Vehicles **2019**,		3
20	Practical Bifurcation Criteria considering Inductive Power Pad Losses in Wireless Power Transfer Systems. *Journal of Electrical Engineering and Technology*, **2017**, 12, 173-181	1.4	3
19	Design of optimum self-inductances of magnetic pads in inductive power transfer system for electric vehicles **2016**,		3
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**,		3

List of Publications

17	Control Strategy for Power Conversion Systems in Plasma Generators with High Power Quality and Efficiency Considering Entire Load Conditions. *Energies*, **2019**, 12, 1723	3.1	2
16	A novel parallel control for modular energy storage system achieving high performance, redundancy and applicability **2017**,		2
15	Enhanced Threshold Point Calculation Algorithm for Switch Fault Diagnosis in Grid Connected 3-Phase ACDC PWM Converters. *Energies*, **2019**, 12, 1979	3.1	1
14	Threshold Point Calculation Method Using Instantaneous Phase Current for Switch Fault Diagnosis of AC-DC Converters in Hybrid Grid Systems **2019**,		1
13	An Improved High Voltage DC-DC Converter with Partial-Resonant Network for Enhanced Efficiency and Power Density in Electric Vehicle Applications **2019**,		1
12	Comparison and Design of Resonant Network Considering the Characteristics of a Plasma Generator. *Energies*, **2019**, 12, 3156	3.1	1
11	Diagnosis of LIB Degradation using Estimating Cell Resistance for Hybrid Electric Vehicles. *Journal of Electrical Engineering and Technology*, **2016**, 11, 1195-1201	1.4	1
10	Optimal Design of Multi-Output LLC Resonant Converter with Independently Regulated Synchronous Single-Switched Power-Regulator. *Energies*, **2020**, 13, 4341	3.1	1
9	Performance analysis of magnetic power pads for inductive power transfer systems with ferrite structure variation **2016**,		1
8	Analysis and Comparison of Topological Configurations for All-Metal Induction Cookers. *Journal of Electrical Engineering and Technology*, **2019**, 14, 2399-2408	1.4	0
7	Variable DC-Link Voltage Control Algorithm of Power Converter for Plasma Generators. *Journal of Electrical Engineering and Technology*, **2020**, 15, 713-720	1.4	0
6	Light Load Efficiency Improvement in Variable DC-link Voltage Inverter Systems for Home Appliances. *Journal of Electrical Engineering and Technology*, **2016**, 11, 1274-1281	1.4	0
5	Optimal Design of High-Frequency Induction Heating Apparatus for Wafer Cleaning Equipment Using Superheated Steam. *Energies*, **2020**, 13, 6196	3.1	0
4	Study on Performance of Vehicle with Different Types of 12 V Starter Batteries Using HILS. *Journal of Electrical Engineering and Technology*, **2019**, 14, 1973-1982	1.4	
3	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	1.4	
2	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	1.5	
1	Online Cell Screening Algorithm for Maximum Peak Current Estimation of a Lithium-Ion Battery Pack for Electric Vehicles. *Energies*, **2022**, 15, 1423	3.1	