

Byoung Kuk Lee

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.

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	Online Cell Screening Algorithm for Maximum Peak Current Estimation of a Lithium-Ion Battery Pack for Electric Vehicles. <i>Energies</i> , 2022 , 15, 1423	3.1	
33	Design and Current Unbalance Control Method for a Center-Tapped LLC Resonant Converter on UHD TV. <i>Journal of Electrical Engineering and Technology</i> , 2020 , 15, 1735-1744	1.4	
32	Variable DC-Link Voltage Control Algorithm of Power Converter for Plasma Generators. <i>Journal of Electrical Engineering and Technology</i> , 2020 , 15, 713-720	1.4	0
31	Optimal Design of Multi-Output LLC Resonant Converter with Independently Regulated Synchronous Single-Switched Power-Regulator. <i>Energies</i> , 2020 , 13, 4341	3.1	1
30	Optimal Design of High-Frequency Induction Heating Apparatus for Wafer Cleaning Equipment Using Superheated Steam. <i>Energies</i> , 2020 , 13, 6196	3.1	0
29	Analysis and Comparison of Topological Configurations for All-Metal Induction Cookers. <i>Journal of Electrical Engineering and Technology</i> , 2019 , 14, 2399-2408	1.4	0
28	Control Strategy for Power Conversion Systems in Plasma Generators with High Power Quality and Efficiency Considering Entire Load Conditions. <i>Energies</i> , 2019 , 12, 1723	3.1	2
27	Study on Performance of Vehicle with Different Types of 12 V Starter Batteries Using HILS. <i>Journal of Electrical Engineering and Technology</i> , 2019 , 14, 1973-1982	1.4	
26	Enhanced Threshold Point Calculation Algorithm for Switch Fault Diagnosis in Grid Connected 3-Phase ACDC PWM Converters. <i>Energies</i> , 2019 , 12, 1979	3.1	1
25	Integrated Control Strategy for Inductive Power Transfer Systems with Primary-Side LCC Network for Load-Average Efficiency Improvement. <i>Energies</i> , 2019 , 12, 312	3.1	5
24	Innovative Modeling Approach for Li-Ion Battery Packs Considering Intrinsic Cell Unbalances and Packaging Elements. <i>Energies</i> , 2019 , 12, 356	3.1	6
23	High-Efficiency Adaptive-Current Charging Strategy for Electric Vehicles Considering Variation of Internal Resistance of Lithium-Ion Battery. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 3041-3052	7.2	30
22	Investigation of Vibration and Acoustic Noise Emission of Powder Core Inductors. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 3633-3645	7.2	3
21	Design and Control of Inductive Power Transfer System for Electric Vehicles Considering Wide Variation of Output Voltage and Coupling Coefficient. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 1197-1208	7.2	72
20	Power Curve-Fitting Control Method with Temperature Compensation and Fast-Response for All-Metal Domestic Induction Heating Systems. <i>Energies</i> , 2019 , 12, 2915	3.1	8
19	Threshold Point Calculation Method Using Instantaneous Phase Current for Switch Fault Diagnosis of AC-DC Converters in Hybrid Grid Systems 2019 ,		1
18	An Improved High Voltage DC-DC Converter with Partial-Resonant Network for Enhanced Efficiency and Power Density in Electric Vehicle Applications 2019 ,		1

17	Frequency and Phase-Shift Control of Inductive Power Transfer for EV Charger with LCCL-S Resonant Network Considering Misalignment. <i>Journal of Electrical Engineering and Technology</i> , 2019 , 14, 2409-2419	1.4	4
16	Comparison and Design of Resonant Network Considering the Characteristics of a Plasma Generator. <i>Energies</i> , 2019 , 12, 3156	3.1	1
15	Cranking Capability Estimation Algorithm Based on Modeling and Online Update of Model Parameters for Li-Ion SLI Batteries. <i>Energies</i> , 2019 , 12, 3365	3.1	3
14	Improved Pulse Density Modulation with a Distribution Algorithm for Semi-Bridgeless Rectifier of Inductive Power Transfer System in Electric Vehicles 2019 ,		3
13	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
12	Topology and Control Scheme of OBC/DC Integrated Power Unit for Electric Vehicles. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 1731-1743	7.2	20
11	Design and control of inductive power transfer system for electric vehicles considering wide variation of output voltage and coupling coefficient 2017 ,		3
10	A novel parallel control for modular energy storage system achieving high performance, redundancy and applicability 2017 ,		2
9	A novel li-ion battery pack modeling considering single cell information and capacity variation 2017 ,		3
8	Performance Analysis of Magnetic Power Pads for Inductive Power Transfer Systems with Ferrite Structure Variation. <i>Journal of Electrical Engineering and Technology</i> , 2017 , 12, 1211-1218	1.4	3
7	Practical Bifurcation Criteria considering Inductive Power Pad Losses in Wireless Power Transfer Systems. <i>Journal of Electrical Engineering and Technology</i> , 2017 , 12, 173-181	1.4	3
6	Diagnosis of LIB Degradation using Estimating Cell Resistance for Hybrid Electric Vehicles. <i>Journal of Electrical Engineering and Technology</i> , 2016 , 11, 1195-1201	1.4	1
5	A Mixed SOC Estimation Algorithm with High Accuracy in Various Driving Patterns of EVs. <i>Journal of Power Electronics</i> , 2016 , 16, 27-37	0.9	11
4	Light Load Efficiency Improvement in Variable DC-link Voltage Inverter Systems for Home Appliances. <i>Journal of Electrical Engineering and Technology</i> , 2016 , 11, 1274-1281	1.4	0
3	An Analysis for Gate-source Voltage of GaN HEMT Focused on Mutual Switch Effect in Half-Bridge Structure. <i>Transactions of the Korean Institute of Electrical Engineers</i> , 2016 , 65, 1664-1671	1.5	
2	Design of optimum self-inductances of magnetic pads in inductive power transfer system for electric vehicles 2016 ,		3
1	Performance analysis of magnetic power pads for inductive power transfer systems with ferrite structure variation 2016 ,		1