

Yongsug Suh

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Next-Generation Variable Capacitors to Reduce Capacitance Variable Time Using SiC MOSFETs and p-i-n Diodes in 13.56-MHz RF Plasma Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1353-1362.	5.4	3
2	Auto-Bias Electrical Variable Capacitor of Reduced Active Component Count and Voltage Stress for 13.56 MHz RF Plasma Process. IEEE Transactions on Industry Applications, 2022, 58, 4994-5004.	4.9	2
3	A Control Method of Reduced Reactive Power Ripple in Grid-connected Converters under Unbalanced Grid Conditions. , 2022, , .		2
4	Current-Source-Type Pulse Current Generator With Reduced Waveform Distortion for Capacitively Coupled Plasma Systems. IEEE Transactions on Industry Applications, 2021, 57, 2578-2590.	4.9	1
5	Design of Optimized Coupling Factor for Minimum Inductor Current Ripple in DC-DC Converter Using Multiwinding Coupled Inductor. IEEE Transactions on Industry Applications, 2021, 57, 3978-3989.	4.9	7
6	Pulse current generator with improved waveform fidelity for high-voltage capacitively coupled plasma systems. Journal of Power Electronics, 2020, 20, 1316-1327.	1.5	1
7	Electrical variable capacitor using symmetrical switch configuration for reducing switch voltage in RF plasma systems. Journal of Power Electronics, 2020, 20, 1562-1572.	1.5	2
8	Multiwinding Flyback Clamp Snubber for 10 kV IGCT With Reduced Voltage Stress on Clamp Recovery Diodes. IEEE Transactions on Industry Applications, 2020, 56, 2729-2740.	4.9	4
9	Analysis and Minimization of Neutral Point Current Deviation in Grid Tied 3-level NPC Converter under Various Grid Fault Conditions. , 2020, , .		2
10	Analysis and Control of Neutral Point Current Deviation in Grid Tied 3-level NPC Converter under Various Grid Unbalanced Conditions. , 2020, , .		2
11	Analysis and Control of Neutral-Point Deviation in Three-Level NPC Converter Under Unbalanced Three-Phase AC Grid. IEEE Transactions on Industry Applications, 2019, 55, 4944-4955.	4.9	16
12	Impedance Matching Scheme of Electrical Variable Capacitors Using SiC MOSFET for 13.56MHz RF Plasma Systems. , 2019, , .		4
13	Electrical Variable Capacitor Using Symmetrical Switch Configuration in RF Plasma System. , 2019, , .		0
14	Cascaded Snubber Scheme Using Flyback Type Transformer for 10kV IGCT Applications. , 2019, , .		1
15	Design of Optimized Coupling Factor for Minimum Inductor Current Ripple in DC-DC Converter using Multi-winding Coupled Inductor. , 2019, , .		1
16	Low Dissipative Snubber Using Flyback-Type Transformer for 10 kV IGCT in 7 MW Wind Turbine Systems. IEEE Transactions on Power Electronics, 2018, 33, 5898-5908.	7.9	8
17	Multi-winding Flyback Type Snubber for 10kV IGCT with Reduced Voltage Stress on Recovery Diodes. , 2018, , .		2
18	Current Source Type PMSG Wind Turbine System with Three-phase Three-switch Buck-type Rectifier for Machine-side Converter. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
19	Loss analysis of flyback type snubber with nonlinear magnetic properties for 10kV IGCT applications. , 2017, , .		0
20	Optimized coupling factor design of multiple-phase coupled inductor for minimum inductor current ripple operation in EV charger systems. , 2017, , .		8
21	Field excitation scheme using a machine-side 4-leg converter in MW-range WRSG wind turbine systems. , 2017, , .		3
22	Analysis of neutral point deviation in 3-level NPC converter under unbalanced 3-phase AC grid. , 2016, , .		2
23	Improved operating range for three-phase three-switch buck-type rectifier using carrier based PWM. , 2016, , .		1
24	Loss analysis of current source converter for 10kV IGCT in 7MW PMSG wind turbine systems. , 2016, , .		1
25	Low dissipative snubber using flyback type transformer for 10 kV IGCT in 7 MW wind turbine systems. , 2015, , .		6
26	Design of optimized coupling factor for minimum inductor current ripple in rapid EV charger systems using multi-winding coupled inductor. , 2015, , .		2
27	Optimized coupling factor of multi-winding coupled inductor for minimum inductor current ripple in rapid traction battery charger system. , 2015, , .		1
28	Comparison of voltage source and current source based Converter in 5MW PMSG wind turbine systems. , 2015, , .		5
29	Flyback-type di/dt snubber for 10kV IGCT in MV wind turbines. , 2014, , .		3
30	Design of coupled inductor for minimum inductor current ripple in rapid traction battery charger systems. , 2014, , .		2
31	Comparison of high power semiconductor devices losses in 5MW PMSG MV wind turbines. , 2014, , .		10
32	Arc Stability Control of a High-Power Thyristor Rectifier System in a DC Arc Furnace. IEEE Transactions on Power Electronics, 2014, 29, 6342-6351.	7.9	14
33	Control algorithm of high power rectifier system in DC arc furnace for improved arc stability. , 2013, , .		0
34	A Study on High-Current Rectifier Systems With Mitigated Time-Varying Magnetic Field Generation at AC Input and DC Output Busbars. IEEE Transactions on Power Electronics, 2012, 27, 1212-1219.	7.9	9
35	A Comparative Study on Control Algorithm for Active Front-End Rectifier of Large Motor Drives Under Unbalanced Input. IEEE Transactions on Industry Applications, 2011, 47, 1419-1431.	4.9	48
36	A study on high current rectifier systems with mitigated time-varying magnetic field generation at ac input and dc output busbars. , 2011, , .		0

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37	A Power Conversion System for AC Furnace With Enhanced Arc Stability. IEEE Transactions on Industry Applications, 2010, 46, 2526-2535.	4.9	23
38	A medium voltage power supply with enhanced ignition characteristics for plasma torch in waste disposal system. , 2010, , .		0
39	A power conversion system for ac furnace with enhanced arc stability. , 2009, , .		0
40	Application of IGCT in High-Power Rectifiers. IEEE Transactions on Industry Applications, 2009, 45, 1628-1636.	4.9	30
41	A Comparative Study of Medium-Voltage Power Converter Topologies for Plasma Torch Under Dynamic Operating Conditions. IEEE Transactions on Industrial Electronics, 2009, 56, 2150-2161.	7.9	12