Young Cheol Lim

List of Publications by Year
in descending order

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		236833	168321
103	3,098	25	53
papers	citations	h-index	g-index

103	103	103	1890
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Switched-Capacitor-Based Six-Level Inverter. IEEE Transactions on Power Electronics, 2022, 37, 4804-4816.	5.4	12
2	A Novel Single-Stage Common-Ground Transformerless Buckâ€“Boost Inverter. Electronics (Switzerland), 2022, 11, 829.	1.8	8
3	Emerging Technologies in Power Systems. Electronics (Switzerland), 2022, 11, 71.	1.8	5
4	Topology Review of Three-Phase Two-Level Transformerless Photovoltaic Inverters for Common-Mode Voltage Reduction. Energies, 2022, 15, 3106.	1.6	12
5	Decentralized Real-time Volt/Var Control of Distributed Generation in Distribution System. Journal of the Korean Solar Energy Society, 2021, 41, 131-146.	0.1	0
6	Transformer-Less Switched-Capacitor Quasi-Switched Boost DC-DC Converter. Energies, 2021, 14, 6591.	1.6	5
7	Short-Term Cooperative Operational Scheme of Distribution System with High Hosting Capacity of Renewable-Energy-Based Distributed Generations. Energies, 2021, 14, 6340.	1.6	5
8	Three-Phase Impedance-Source Inverter With Common-Mode Voltage Reduction. IEEE Access, 2021, 9, 164510-164519.	2.6	5
9	Isolated Quasi-Switched Boost Series Resonant DC-DC Converter. , 2021, , .		1
10	A Study on Input Power Factor Compensation Capability of Matrix Converters. Electronics (Switzerland), 2020, 9, 82.	1.8	11
11	Modulation Techniques for a Modified Three-Phase Quasi-Switched Boost Inverter With Common-Mode Voltage Reduction. IEEE Access, 2020, 8, 160670-160683.	2.6	19
12	Input Power Factor Compensation Strategy for Zero CMV-SVM Method in Matrix Converters. IEEE Access, 2020, 8, 175805-175814.	2.6	7
13	A Three-Phase Constant Common-Mode Voltage Inverter With Triple Voltage Boost for Transformerless Photovoltaic System. IEEE Access, 2020, 8, 166692-166702.	2.6	10
14	DC-Link Quasi-Switched Boost Inverter With Improved PWM Strategy and its Comparative Evaluation. IEEE Access, 2020, 8, 53857-53867.	2.6	20
15	A New Power Sharing Scheme of Multiple Microgrids and an Iterative Pairing-Based Scheduling Method. Energies, 2020, 13, 1605.	1.6	2
16	Fault Location Method Using Phasor Measurement Units and Short Circuit Analysis for Power Distribution Networks. Energies, 2020, 13, 1294.	1.6	7
17	Modeling and Control of a Discontinuous Quasi-Switched Boost Cascaded Multilevel Inverter for Grid-Tied Applications. , 2020, , .		3
18	Review on Data Acquisition of Renewable Power Generators. Journal of the Korean Solar Energy Society, 2020, 40, 1-20.	0.1	0

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19	A Switched-Capacitor-Voltage-Doubler Based Boost Inverter for Common-Mode Voltage Reduction. IEEE Access, 2019, 7, 98618-98629.	2.6	32
20	A Modified Model Predictive Power Control for Grid-Connected T-Type Inverter with Reduced Computational Complexity. Electronics (Switzerland), 2019, 8, 217.	1.8	14
21	A Simplified Model Predictive Control for T-Type Inverter with Output LC Filter. Energies, 2019, 12, 31.	1.6	16
22	Development and Verification of Campus Microgrid Energy Management System. , 2019, , .		0
23	Transformerless High Step-Up DC-DC Converters with Switched-Capacitor Network. Electronics (Switzerland), 2019, 8, 1420.	1.8	18
24	High Voltage Gain Quasi-Switched Boost Inverters With Low Input Current Ripple. IEEE Transactions on Industrial Informatics, 2019, 15, 4857-4866.	7.2	50
25	Aâ€‰Familyâ€‰ofâ€‰PWMâ€‰Controlâ€‰Strategiesâ€‰forâ€‰Single-Phase Quasi-Switched-Boost Inverter. IEEE Transactions on Power Electronics, 2019, 34, 1458-1469.	5.4	38
26	A Novel Space Vector Modulation Strategy for Three-Phase Quasi Switched Boost Inverter. , 2019, , .		1
27	A Comparison Between Quasi-Z-Source Inverter and Active Quasi-Z-Source Inverter. , 2019, , .		2
28	Switched-Capacitor Quasi-Switched Boost Inverters. IEEE Transactions on Industrial Electronics, 2018, 65, 5105-5113.	5.2	64
29	Switched-Capacitor-Based Dual-Switch High-Boost DCâ€“DC Converter. IEEE Transactions on Power Electronics, 2018, 33, 4181-4189.	5.4	144
30	A Single-Phase Common Ground Boost Inverter for Photovoltaic Applications. , 2018, , .		4
31	Optimal Scheduling and Real-Time Control Schemes of Battery Energy Storage System for Microgrids Considering Contract Demand and Forecast Uncertainty. Energies, 2018, 11, 1371.	1.6	32
32	Isolated Boost DCâ€“DC Converter With Three Switches. IEEE Transactions on Power Electronics, 2018, 33, 1389-1398.	5.4	57
33	Estimation of Conservation Voltage Reduction Factors Using Measurement Data of KEPCO System. Energies, 2017, 10, 2148.	1.6	6
34	Rotor Design for an Efficient Single-Phase Induction Motor for Refrigerator Compressors. Energies, 2016, 9, 158.	1.6	4
35	Efficiency Enhancement of a Low-Voltage Automotive Vacuum Cleaner Using a Switched Reluctance Motor. Energies, 2016, 9, 692.	1.6	2
36	A 25â€A peak current and 7.4â€NS pulseâ€width laser driver using an avalanche transistor and switches for lidar applications. Microwave and Optical Technology Letters, 2016, 58, 2540-2543.	0.9	3

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37	Switchedâ€boost networkâ€based singleâ€phase boost DCâ€“AC converter. IET Power Electronics, 2016, 9, 2723-2730.	1.5	4
38	Isolated High Step-Up DCâ€“DC Converter Based on Quasi-Switched-Boost Network. IEEE Transactions on Industrial Electronics, 2016, 63, 7553-7562.	5.2	53
39	Class of high boost inverters based on switchedâ€inductor structure. IET Power Electronics, 2015, 8, 750-759.	1.5	78
40	A Class of Quasi-Switched Boost Inverters. IEEE Transactions on Industrial Electronics, 2015, 62, 1526-1536.	5.2	207
41	Design of an LLC Resonant Converter for Driving Multiple LED Lights Using Current Balancing of Capacitor and Transformer. Energies, 2015, 8, 2125-2144.	1.6	16
42	A Comparison Between Single-Phase Quasi- <inline-formula> <tex-math notation="LaTeX">Z</tex-math></inline-formula>-Source and Quasi-Switched Boost Inverters. IEEE Transactions on Industrial Electronics, 2015, 62, 6336-6344.	5.2	122
43	Development and test of conservation voltage reduction application for Korean Smart Distribution Management System. , 2015, , .		3
44	A Single-Phase Embedded Z-Source DC-AC Inverter. Scientific World Journal, The, 2014, 2014, 1-8.	0.8	0
45	Comparison between Underground Cable and Overhead Line for a Low-Voltage Direct Current Distribution Network Serving Communication Repeater. Energies, 2014, 7, 1656-1672.	1.6	10
46	Development and Field Test of Voltage VAR Optimization in the Korean Smart Distribution Management System. Energies, 2014, 7, 643-669.	1.6	8
47	The Development and Empirical Evaluation of the Korean Smart Distribution Management System. Energies, 2014, 7, 1332-1362.	1.6	16
48	Real-Time Wavelet-Based Coordinated Control of Hybrid Energy Storage Systems for Denoising and Flattening Wind Power Output. Energies, 2014, 7, 6620-6644.	1.6	20
49	Development and Field Test of a Real-Time Database in the Korean Smart Distribution Management System. Energies, 2014, 7, 1852-1875.	1.6	4
50	Improved switched boost inverter with reducing capacitor volatge stress. , 2014, , .		2
51	Cascaded TZâ€source inverters. IET Power Electronics, 2014, 7, 2069-2080.	1.5	23
52	Switched Trans Z-source inverter using two isolated two-winding transformers. , 2014, , .		1
53	Transformer-based quasi-Z-source inverters with high boost ability. , 2013, , .		5
54	Trans-Z-source-based isolated DC-DC converters. , 2013, , .		21

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55	Family of highâ€boost Z â€source inverters with combined switchedâ€inductor and transformer cells. IET Power Electronics, 2013, 6, 1175-1187.	1.5	26
56	TZ-Source Inverters. IEEE Transactions on Industrial Electronics, 2013, 60, 5686-5695.	5.2	178
57	Power Scheduling of Distributed Generators for Economic and Stable Operation of a Microgrid. IEEE Transactions on Smart Grid, 2013, 4, 398-405.	6.2	218
58	Operation Schemes of Smart Distribution Networks With Distributed Energy Resources for Loss Reduction and Service Restoration. IEEE Transactions on Smart Grid, 2013, 4, 367-374.	6.2	116
59	Improved Trans-Z-Source Inverter With Continuous Input Current and Boost Inversion Capability. IEEE Transactions on Power Electronics, 2013, 28, 4500-4510.	5.4	173
60	Single-phase Z-source-based voltage sag/swell compensator. , 2013, , .		9
61	Evaluation of the Effects of Nationwide Conservation Voltage Reduction on Peak-Load Shaving Using SOMAS Data. Energies, 2013, 6, 6322-6334.	1.6	10
62	EMS-Data-Based Load Modeling to Evaluate the Effect of Conservation Voltage Reduction at a National Level. Energies, 2013, 6, 3692-3705.	1.6	9
63	General and Simple Decision Method for DG Penetration Level in View of Voltage Regulation at Distribution Substation Transformers. Energies, 2013, 6, 4786-4798.	1.6	10
64	Development of simulation platform of distribution systems with DGs and SVR for voltage control studies. , 2013, , .		0
65	Power Sharing and Frequency Control of an Autonomous Microgrid Considering the Dynamic Characteristics of Distributed Generations. Journal of International Council on Electrical Engineering, 2012, 2, 39-44.	0.4	14
66	A Modified Single-Phase Quasi-Z-Source ACâ€“AC Converter. IEEE Transactions on Power Electronics, 2012, 27, 201-210.	5.4	103
67	Output voltage constant control of three-phase Z-source inverter. , 2012, , .		0
68	Single-phase quasi Z-Source AC-AC Converter with a series connection of the output terminals. , 2012, , .		0
69	Auto-tuning fuzzy PD control scheme for output voltage control of three-phase Z-source inverter. , 2012, , .		1
70	Switched-Inductor Quasi-Z-Source Inverter. IEEE Transactions on Power Electronics, 2011, 26, 3183-3191.	5.4	373
71	Single-phase quasi-Z-source AC-AC converter with safe-commutation strategy. , 2010, , .		4
72	A Single-Phase Z-Source Buckâ€“Boost Matrix Converter. IEEE Transactions on Power Electronics, 2010, 25, 453-462.	5.4	75

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73	Single-Phase ACâ€“AC Converter Based on Quasi-Z-Source Topology. IEEE Transactions on Power Electronics, 2010, 25, 2200-2210.	5.4	142
74	A Pseudorandom Carrier Modulation Scheme. IEEE Transactions on Power Electronics, 2010, 25, 797-805.	5.4	58
75	Simulation studies of JeJu AC power system modeling by using PSCAD/EMTDC. , 2009, , .		2
76	Three-phase AC-AC Z-source converter (TPZC) with maximum boost voltage ratio. , 2009, , .		1
77	Single-phase quasi-Z-source AC/AC converter. , 2009, , .		0
78	Zero-current soft-switching bidirectional DC-DC converter for high efficiency DC uninterruptible power supply. , 2009, , .		2
79	High step-up dc-dc converter with high efficiency for photovoltaic module integrated converter systems. , 2009, , .		15
80	Single-phase Z-source voltage sag/swell compensator. , 2009, , .		6
81	Single-phase AC/AC converter based on quasi-Z-source topology. , 2009, , .		4
82	The Dead Band Control of LTC Transformer at Distribution Substation. IEEE Transactions on Power Systems, 2009, 24, 319-326.	4.6	33
83	Photovoltaic module integrated converter system minimizing input ripple current for inverter load. , 2009, , .		7
84	Harmonic-Spectrum Spreading Effects of Two-Phase Random Centered Distribution PWM (DZRCD) Scheme With Dual Zero Vectors. IEEE Transactions on Industrial Electronics, 2009, 56, 3013-3020.	5.2	36
85	A New Hybrid Random PWM Scheme. IEEE Transactions on Power Electronics, 2009, 24, 192-200.	5.4	125
86	Single-Phase Z-Source Buck-Boost Matrix Converter. , 2009, , .		7
87	Adaptive protection schemes of Distributed Generation at distribution network for automatic reclosing and voltage sags. , 2008, , .		8
88	A New Random Switching Technique for the Single Phase Switched Reluctance Motor Drives. , 2007, , .		2
89	Power spectra of the single phase 6/6 SRM drives by the separately randomized pulse position (SRP) PWM method. , 2007, , .		1
90	Formulation, measurement and analysis for the thrust force of HB-type Linear Pulse Motor. , 2007, , .		0

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91	A stand alone type fuel cells micro-source system with a voltage sag compensator. , 2007, , .		0
92	Z-source active power filter with a fuel cells source. , 2007, , .		7
93	Operating Strategy and Control Scheme of Premium Power Supply Interconnected With Electric Power Systems. IEEE Transactions on Power Delivery, 2005, 20, 2281-2288.	2.9	31
94	The algorithm of expanded current synchronous detection for active power filters considering three-phase unbalanced power system. IEEE Transactions on Industrial Electronics, 2003, 50, 1000-1006.	5.2	16
95	Neuro-fuzzy control system for vision-based autonomous vehicle. , 1999, , .		4
96	A simple instantaneous power theory and compensation performance evaluation for active power filters. , 0, , .		0
97	A neural network model of electric differential system for electric vehicle. , 0, , .		19
98	An analysis of the backlight inverter by topologies. , 0, , .		26
99	Speed control method for switched reluctance motor drive using self-tuning of switching angle. , 0, , .		7
100	Cancellation of background field using magnetic compass sensor for magnetometer based autonomous vehicle. , 0, , .		1
101	Design of magnet based position sensing system for autonomous vehicle robot. , 0, , .		5
102	Power Spectra of Single-Phase HBML Inverters with a Pseudo-Random Frequency Carrier Technique. , 0, , .		0
103	Shaping the Spectra of the Acoustic Noise Emitted by Three-Phase Inverter Drives based on the New Hybrid Random PWM Technique. , 0, , .		2