

Jinia Roy

List of Publications by Year in descending order

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23
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379
citing authors

#	ARTICLE	IF	CITATIONS
1	A Capacitance-Minimized, Doubly Grounded Transformer less Photovoltaic Inverter With Inherent Active-Power Decoupling. IEEE Transactions on Power Electronics, 2017, 32, 5188-5201.	7.9	108
2	Sensor-Less Current Sharing Over Wide Operating Range for Extended-Duty-Ratio Boost Converter. IEEE Transactions on Power Electronics, 2017, 32, 8763-8777.	7.9	48
3	High Step-Up Transformerless Inverter for AC Module Applications With Active Power Decoupling. IEEE Transactions on Industrial Electronics, 2019, 66, 3891-3901.	7.9	40
4	Half-Bridge Voltage Swing Inverter With Active Power Decoupling for Single-Phase PV Systems Supporting Wide Power Factor Range. IEEE Transactions on Power Electronics, 2019, 34, 7450-7461.	7.9	27
5	Optimal Variable Switching Frequency Scheme to Reduce Loss of Single-Phase Grid-Connected Inverter With Unipolar and Bipolar PWM. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 1013-1026.	5.4	22
6	A GaN based doubly grounded, reduced capacitance transformer-less split phase photovoltaic inverter with active power decoupling. , 2017, , .		13
7	Discontinuous Conduction Mode Analysis of High Gain Extended-Duty-Ratio Boost Converter. IEEE Open Journal of the Industrial Electronics Society, 2021, 2, 372-387.	6.8	12
8	A high performance T-type single phase double grounded transformer-less photovoltaic inverter with active power decoupling. , 2016, , .		11
9	Performance evaluation of single-phase transformer-less PV inverter topologies. , 2018, , .		10
10	Duty phase shift technique for extended-duty-ratio boost converter for reducing device voltage stress over wider operating range. , 2018, , .		10
11	GaN-based high gain soft switching coupled-inductor boost converter. , 2017, , .		9
12	Sliding mode control of a single phase transformer-less PV inverter with active power decoupling. , 2017, , .		9
13	A single phase transformerless string inverter with large voltage swing of half-bridge capacitors for active power decoupling. , 2016, , .		8
14	A single phase transformer-less string inverter with integrated magnetics and active power decoupling. , 2017, , .		5
15	Study of Voltage-Dependent Harmonic Characteristics of Residential Appliances. , 2019, , .		5
16	A Single Stage Common Ground Three-Level PV Inverter With Integrated Power Decoupling. IEEE Open Journal of Power Electronics, 2020, 1, 227-237.	5.7	5
17	Optimal variable switching frequency scheme for grid connected full bridge inverters with bipolar modulation scheme. , 2017, , .		3
18	Seamless transition of the operating zones for the extended-duty-ratio boost converter. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
19	GaN based transformer-less microinverter with coupled inductor interleaved boost and half bridge voltage swing inverter. , 2018, , .		3
20	GaN-based split phase transformer-less PV inverter with auxiliary ZVT circuit. IET Power Electronics, 2020, 13, 525-534.	2.1	3
21	Highly Reliable Multi-Port Smart Inverter Modules for PV-Based Energy Systems. , 2019, , .		2
22	Impacts of Experimentally Obtained Harmonic Spectrums of Residential Appliances on Distribution Feeder. , 2020, , .		2
23	LCOE Design Optimization Using Genetic Algorithm with Improved Component Models for Medium-Voltage Transformerless PV Inverters. , 2020, , .		2