

Vikram Roy Chowdhury

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

214
citations

1307594

7
h-index

1588992

8
g-index

29
all docs

29
docs citations

29
times ranked

154
citing authors

#	ARTICLE	IF	CITATIONS
1	Negative Virtual Inductance based Active Damping and Direct Power Control of a Soft Switching Solid State Transformer for \$PV\$ Application. , 2022, , .		6
2	Farm-level Interactions Study of a Novel Tri-port Soft-switching Medium-Voltage String Inverter (MVS) based Large-scale PV-Plus-Storage Farms. , 2022, , .		2
3	A Tri-Port Current-Source Soft-Switching Medium-Voltage String Inverter for Large-Scale Solar-Plus-Storage Farms. IEEE Transactions on Power Electronics, 2022, 37, 13808-13823.	7.9	9
4	Robust Control Scheme for a Three Phase Grid-Tied Inverter With \$LCL\$ Filter During Sensor Failures. IEEE Transactions on Industrial Electronics, 2021, 68, 8253-8264.	7.9	14
5	Internal Model Based Grid Voltage Estimation and Control of a Three-Phase Grid Connected Inverter for \$PV\$ Application. IEEE Transactions on Energy Conversion, 2021, 36, 3568-3577.	5.2	12
6	Internal Model Based Speed Estimation and Lyapunov Energy Function Based Control of a Surface Mount PMSM for Electric Vehicle Application. , 2021, , .		0
7	Feedback Linearization based Direct Power Control of a three-phase grid-connected inverter with online parameter update. , 2021, , .		5
8	A Multiport DC Transformer to Enable Flexible Scalable DC as a Service. , 2021, , .		3
9	Lyapunov Energy Function Based Control of a PV Based Current Source Inverter under Unbalanced Grid Voltage Condition. , 2021, , .		3
10	Control of Soft Switching Solid State Transformer based on Lyapunov Energy Function for Three-phase AC-AC Power Conversion. , 2021, , .		4
11	Lyapunov energy function based direct power control of synchronverters under unbalanced grid voltage conditions. , 2021, , .		0
12	Virtual chargeâ€based synchronisation and feedback linearisationâ€based current control of a threeâ€phase gridâ€connected inverter without grid voltage sensors. IET Power Electronics, 2020, 13, 3496-3504.	2.1	5
13	Lyapunov Energy Function based Control of a Soft Switching Solid State Transformer for Three-phase Standalone Application. , 2020, , .		6
14	Operation of a Three-Phase Standalone Inverter With Online Parameter Update By Instantaneous Charge Transfer Estimation. , 2020, , .		4
15	Negative Virtual Capacitance to Eliminate Resonance Oscillations in a Three-Phase Inverter with LCL Filter. , 2020, , .		6
16	Adaptive Feedback Linearization Based Control of a Three-Phase Grid Connected Inverter under Non-Ideal Grid Voltage Condition. , 2019, , .		6
17	Voltage Sensorless Control of a Three-phase Grid Connected Inverter with LCL filter based on Passivity under Non-ideal Grid Voltage Conditions. , 2019, , .		5
18	Control of a Three-Phase Grid-Connected Inverter Under Non-Ideal Grid Conditions With Online Parameter Update. IEEE Transactions on Energy Conversion, 2019, 34, 1613-1622.	5.2	27

#	ARTICLE	IF	CITATIONS
19	Grid Voltage Estimation and Feedback Linearization based Control of a Three phase Grid Connected Inverter under Unbalanced Grid Conditions with LCL Filter. , 2019, , .		10
20	Power-Angle Synchronization for Grid-Connected Converter With Fault Ride-Through Capability for Low-Voltage Grids. IEEE Transactions on Energy Conversion, 2018, 33, 970-979.	5.2	16
21	Grid Voltage Estimation and Current Control of a Single-Phase Grid-Connected Converter Without Grid Voltage Sensor. IEEE Transactions on Power Electronics, 2018, 33, 4407-4418.	7.9	29
22	A Voltage Sensorless Control of a Three Phase Grid Connected Inverter Based on Lyapunov Energy Function Under Unbalanced Grid Voltage Condition. , 2018, , .		12
23	Control of a three phase boost rectifier under unbalanced grid conditions without grid voltage sensors. , 2018, , .		1
24	Control of a Three Phase Inverter Mimicking Synchronous Machine with Fault Ridethrough Capability. , 2017, , .		1
25	Analysis and Design of a Three Phase Photovoltaic System with Battery Backup. , 2017, , .		0
26	Model Reference Adaptive Control Based Estimation of Equivalent Resistance and Reactance in Grid-Connected Inverters. IEEE Transactions on Energy Conversion, 2017, 32, 1407-1417.	5.2	22
27	An improved control scheme for stand-alone inverters in the stationary frame of reference with a zero sequence controller. , 2017, , .		2
28	A voltage sensorless phase locked loop structure for single phase grid connected converter system. , 2017, , .		2
29	Filter capacitor current estimation and grid current control in LCL based grid connected inverter. , 2017, , .		2