

DrBChitti Babu

List of Publications by Year in descending order

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41
papers

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44
times ranked

544
citing authors

#	ARTICLE	IF	CITATIONS
1	Effective power balancing and power quality enhancement in single-phase microgrid for remote areas with water pumping, battery storage and electronic load controller. Electrical Engineering, 2022, 104, 83-96.	2.0	3
2	Energy Trilemma Index-Based Multiobjective Optimal Sizing of PV-Battery System for a Building in Tropical Savanna Climate. IEEE Systems Journal, 2022, 16, 5630-5638.	4.6	3
3	Design, development, and implementation of grid-connected solar photovoltaic power conversion system. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2021, 43, 2915-2934.	2.3	22
4	An improved control strategy of grid-tied solar photovoltaic system using active current detection method. International Journal of Circuit Theory and Applications, 2021, 49, 602-615.	2.0	10
5	A novel active current coefficient extraction-based control for grid-tied solar photovoltaic system. IET Power Electronics, 2021, 14, 2099-2114.	2.1	1
6	A Novel Phase Locked Loop based Control Strategy for a Three-phase Grid-tied Solar PV System. , 2021, , .		1
7	Digital pulse width modulation sampling effect embodied <scp>steady-state time-domain</scp> modeling of a boost converter driven permanent magnet DC brushed motor. International Transactions on Electrical Energy Systems, 2021, 31, e12970.	1.9	6
8	Techno-economic and energy assessment of building integrated photovoltaic module as an envelope of the building. International Transactions on Electrical Energy Systems, 2021, 31, e13105.	1.9	8
9	Sensor angle-based control strategy and dynamic analysis of a sinusoidal pulse width modulation-operated permanent magnet synchronous machine drive for electric propulsion unit. International Transactions on Electrical Energy Systems, 2021, 31, e13090.	1.9	1
10	An optimal current control scheme in grid-tied hybrid energy system with active power filter for harmonic mitigation. International Transactions on Electrical Energy Systems, 2020, 30, e12183.	1.9	11
11	Smart LED Lighting System for Energy Efficient Industrial and Commercial LVDC Nanogrid Powered Buildings with BIPV. , 2020, , .		7
12	Photovoltaic system operation as DSTATCOM for power quality improvement employing active current control. IET Generation, Transmission and Distribution, 2020, 14, 3518-3529.	2.5	28
13	Control of VSC for enhancement of power quality in off-grid distributed power generation. IET Renewable Power Generation, 2020, 14, 771-778.	3.1	11
14	Optimised PI+VPI current controller for three-phase grid-integrated photovoltaic inverter under grid voltage distortions. IET Renewable Power Generation, 2020, 14, 779-792.	3.1	20
15	Power quality solutions for effective utilization of single-phase induction generator using voltage source converter. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2020, , 1-20.	2.3	1
16	A Novel Orthogonal Current Decomposition Control for Grid-Connected Voltage Source Converter. IEEE Transactions on Industry Applications, 2019, 55, 7628-7641.	4.9	21
17	Robust detection of real-time power quality disturbances under noisy condition using FTDD features. Automatika, 2019, 60, 11-18.	2.0	17
18	Control Approach to Improve the Power Quality for Effective Utilization of Single Phase Induction Generator. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
19	Active Power Coefficient based Control for Grid-connected PV Systems. , 2019, , .		1
20	Three-Phase Grid-tied Photovoltaic System with an Adaptive Current Control Scheme in Active Power Filter. , 2019, , .		1
21	Control Scheme for DSTATCOM Based on Frequency-Adaptive Disturbance Observer. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 1345-1354.	5.4	26
22	Features of Power Quality in Single-Phase Distributed Power Generation Using Adaptive Nature Vectorial Filter. IEEE Transactions on Power Electronics, 2018, 33, 9482-9495.	7.9	9
23	Power Quality Improvement in Stand-Alone SEIG-Based Distributed Generation System Using Lorentzian Norm Adaptive Filter. IEEE Transactions on Industry Applications, 2018, 54, 5256-5266.	4.9	35
24	Implementation of Single-Phase Two-Switch Midpoint Unidirectional Multilevel Converter System. International Journal of Emerging Electric Power Systems, 2018, 19, .	0.8	0
25	Experimental Validation of Improved Control Strategy of Grid-interactive Power Converter for Wind Power System. Technology and Economics of Smart Grids and Sustainable Energy, 2017, 2, 1.	2.6	2
26	Mitigation of Subsynchronous Resonance with Fractional-order PI based UPFC controller. Mechanical Systems and Signal Processing, 2017, 85, 698-715.	8.0	31
27	HCCâ€based interleaved boost converter with optimal switching frequency control of wind energy conversion system for DC microgrid application. Journal of Engineering, 2017, 2017, 495-505.	1.1	1
28	Improved Control Strategy for Subsynchronous Resonance Mitigation with Fractional-order PI Controller. International Journal of Emerging Electric Power Systems, 2016, 17, 683-692.	0.8	8
29	Analysis of Photovoltaic (PV) Module during Partial Shading based on Simplified Two-Diode Model. International Journal of Emerging Electric Power Systems, 2015, 16, 15-21.	0.8	4
30	Analysis, Design and Experimental Validation of Modified Simple Soft Switching DC-DC Boost Converter. International Journal of Emerging Electric Power Systems, 2015, 16, 331-337.	0.8	5
31	Modelling and analysis of resistive Superconducting Fault Current Limiter. , 2014, , .		2
32	Comparative analysis of LCL filter with active and passive damping methods for grid-interactive inverter system. , 2014, , .		3
33	A Novel Simplified Two-Diode Model of Photovoltaic (PV) Module. IEEE Journal of Photovoltaics, 2014, 4, 1156-1161.	2.5	163
34	Decoupled Control Strategy of Grid Interactive Inverter System with Optimal LCL Filter Design. International Journal of Emerging Electric Power Systems, 2013, 14, 477-486.	0.8	2
35	Smart LED lighting system with occupantsâ€™ preference and daylight harvesting in office buildings. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-21.	2.3	10
36	Experimental investigation on output power enhancement of partial shaded solar photovoltaic system. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-17.	2.3	10

#	ARTICLE	IF	CITATIONS
37	Three-phase grid-tied photovoltaic system with an adaptive current control scheme in active power filter. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-25.	2.3	8
38	Experimental investigations on voltage sourced inverter interfaced photovoltaic based distributed generation system. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-23.	2.3	2
39	Active power coefficient control for grid-tied photovoltaic system under voltage distortions. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-24.	2.3	1
40	Compensation of power quality problems through DSTATCOM using various phase locked loops. Electrical Engineering, 0, , 1.	2.0	2
41	Applied machine learning in wind speed prediction and loss minimization in unbalanced radial distribution system. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-21.	2.3	8