

# DrBChitti Babu

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

506  
citations

1170033

9  
h-index

799663

21  
g-index

44  
all docs

44  
docs citations

44  
times ranked

620  
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. <i>Electrical Engineering</i> , 2022, 104, 83-96.	1.2	3
2	Energy Trilemma Index-Based Multiobjective Optimal Sizing of PV-Battery System for a Building in Tropical Savanna Climate. <i>IEEE Systems Journal</i> , 2022, 16, 5630-5638.	2.9	3
3	Design, development, and implementation of grid-connected solar photovoltaic power conversion system. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2021, 43, 2915-2934.	1.2	22
4	An improved control strategy of grid-tied solar photovoltaic system using active current detection method. <i>International Journal of Circuit Theory and Applications</i> , 2021, 49, 602-615.	1.3	10
5	A novel active current coefficient extraction-based control for grid-tied solar photovoltaic system. <i>IET Power Electronics</i> , 2021, 14, 2099-2114.	1.5	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 steady-state time-domain modeling of a boost converter driven permanent magnet DC brushed motor. <i>International Transactions on Electrical Energy Systems</i> , 2021, 31, e12970.	1.2	6
8	Techno-economic and energy assessment of building integrated photovoltaic module as an envelope of the building. <i>International Transactions on Electrical Energy Systems</i> , 2021, 31, e13105.	1.2	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. <i>International Transactions on Electrical Energy Systems</i> , 2021, 31, e13090.	1.2	1
10	An optimal current control scheme in grid-tied hybrid energy system with active power filter for harmonic mitigation. <i>International Transactions on Electrical Energy Systems</i> , 2020, 30, e12183.	1.2	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. <i>IET Generation, Transmission and Distribution</i> , 2020, 14, 3518-3529.	1.4	28
13	Control of VSC for enhancement of power quality in off-grid distributed power generation. <i>IET Renewable Power Generation</i> , 2020, 14, 771-778.	1.7	11
14	Optimised PI-VP current controller for three-phase grid-integrated photovoltaic inverter under grid voltage distortions. <i>IET Renewable Power Generation</i> , 2020, 14, 779-792.	1.7	20
15	Power quality solutions for effective utilization of single-phase induction generator using voltage source converter. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020, , 1-20.	1.2	1
16	A Novel Orthogonal Current Decomposition Control for Grid-Connected Voltage Source Converter. <i>IEEE Transactions on Industry Applications</i> , 2019, 55, 7628-7641.	3.3	21
17	Robust detection of real-time power quality disturbances under noisy condition using FTDD features. <i>Automatika</i> , 2019, 60, 11-18.	1.2	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.	3.7	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.	5.4	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.	3.3	35
24	Implementation of Single-Phase Two-Switch Midpoint Unidirectional Multilevel Converter System. International Journal of Emerging Electric Power Systems, 2018, 19, .	0.6	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.	1.8	2
26	Mitigation of Subsynchronous Resonance with Fractional-order PI based UPFC controller. Mechanical Systems and Signal Processing, 2017, 85, 698-715.	4.4	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.	0.6	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.	0.6	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.	0.6	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.	0.6	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.	1.5	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.	0.6	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.	1.2	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.	1.2	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.	1.2	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.	1.2	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.	1.2	1
40	Compensation of power quality problems through DSTATCOM using various phase locked loops. Electrical Engineering, 0, , 1.	1.2	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.	1.2	8