

# Ravikumar Bhimasingu

## List of Publications by Year in descending order

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43  
papers

304  
citations

1478280

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h-index

1474057

9  
g-index

43  
all docs

43  
docs citations

43  
times ranked

284  
citing authors

#	ARTICLE	IF	CITATIONS
1	Renewable energy based microgrid system sizing and energy management for green buildings. Journal of Modern Power Systems and Clean Energy, 2015, 3, 1-13.	3.3	68
2	Electrical machines based DC/AC energy conversion schemes for the improvement of power quality and resiliency in renewable energy microgrids. International Journal of Electrical Power and Energy Systems, 2017, 90, 10-26.	3.3	25
3	Optimal sizing of microgrid for an urban community building in south India using HOMER. , 2014, , .		23
4	Improving the DC-Link Utilization of Nine-Switch Boost Inverter Suitable for Six-Phase Induction Motor. IEEE Transactions on Transportation Electrification, 2020, 6, 1177-1187.	5.3	23
5	Review and retrofitted architectures to form reliable smart microgrid networks for urban buildings. IET Networks, 2015, 4, 338-349.	1.1	18
6	Alternative hardware-in-the-loop (HIL) setups for real-time simulation and testing of microgrids. , 2016, , .		14
7	Fuzzy logic based adaptive virtual inertia in droop control operation of the microgrid for improved transient response. , 2017, , .		12
8	Improving resiliency in renewable energy based green microgrids using virtual synchronous machines controlled inverter. , 2015, , .		10
9	Synchrophasor based fault location algorithm for three terminal homogeneous transmission lines. Electric Power Systems Research, 2021, 191, 106889.	2.1	9
10	Comparison of Fixed Switching Frequency Based Optimal Switching Vector MPC Algorithms Applied to Voltage Source Inverter for Stand-alone Applications. , 2019, , .		8
11	Investigation of transient and temporary overvoltages in a wind farm. , 2012, , .		7
12	A simplified converter with simultaneous multi-level AC and boost DC outputs for hybrid microgrid applications. , 2016, , .		7
13	Dualâ€œinput and tripleâ€œoutput boost hybrid converter suitable for gridâ€œconnected renewable energy sources. IET Power Electronics, 2020, 13, 808-820.	1.5	7
14	Boost Multi-port Converter with Simultaneous Isolated DC, Non-isolated DC and AC Outputs. , 2018, , .		6
15	High Gain Switched Inductor Split Source Inverter for Solar Energy Applications. , 2020, , .		6
16	Mitigation of harmonics in grid integrated wind farms. , 2011, , .		5
17	Investigating the power quality improvement strategies for urban building microgrids. , 2014, , .		5
18	Performance analysis of green microgrid architectures by comparing power quality indices. , 2014, , .		5

#	ARTICLE	IF	CITATIONS
19	Improving the performance of hybrid microgrid using isolated three-port converter. , 2016, , .		5
20	Real time and high fidelity controller design for Hardware In the Loop (HIL) testing of flight attitude control. , 2014, , .		4
21	A non-isolated single stage three-port converter for hybrid microgrid applications. , 2016, , .		4
22	Enabling self-healing microgrids by the improvement of resiliency using Closed Loop Virtual DC Motor and Induction Generator control scheme. , 2016, , .		4
23	A split source boost switched capacitor multilevel inverter for low power applications. , 2017, , .		4
24	Synchronized Measurements Based Fault Location Algorithm For Three Terminal Homogeneous Transmission Lines. , 2019, , .		3
25	A High Step-Up Multilevel DC-AC/DC Three-Port Converter using single DC source for hybrid microgrid applications. , 2016, , .		2
26	Performance analysis of static versus rotary DC/AC power converters for hybrid renewable energy based microgrid applications. , 2016, , .		2
27	Improving power quality in microgrids using virtual motor-generator set based control scheme. , 2016, , .		2
28	Fault Location Algorithm For Three Terminal Homogeneous Transmission Lines Using Positive Sequence Components. , 2020, , .		2
29	Sequential model predictive control of quasi <sc>source</sc> inverter with fixed frequency operation. International Transactions on Electrical Energy Systems, 2021, 31, e13068.	1.2	2
30	Design of voltage and current controller parameters using small signal model-based pole-zero cancellation method for improved transient response in microgrids. SN Applied Sciences, 2021, 3, 1.	1.5	2
31	Positive Sequence Components based Fault Location Algorithm For Three Terminal Transmission Network with Non-Homogeneous Tapping. , 2021, , .		2
32	Optimal Sector-Based Sequential Model Predictive Control for Current Source Rectifier. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 5833-5843.	3.7	2
33	An approach for optimal placement of Phasor Measurement Units considering fuzzy logic based critical buses. , 2013, , .		1
34	A novel approach for optimal PMU placement considering channel limit. , 2014, , .		1
35	Technology refresh in asset management systems for smart distribution buildings. , 2014, , .		1
36	Review on Three-Phase PLLs for Grid Integration of Renewable Energy Sources. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
37	A New Transmission Line Differential Protection based on Fault current DC Transients. , 2018, , .		1
38	A Novel DC Transients Based Differential Protection Scheme for Transmission System. , 2018, , .		1
39	Switch automation of smart devices between test beds using distributed control system. , 2014, , .		0
40	Virtual SM-DFIG based automatic control strategy for enhancing the power quality in microgrids. , 2016, , .		0
41	Enabling the fault tolerant operation of shipboard microgrid architecture. , 2016, , .		0
42	Study on Sequential Model Predictive Control for Packed U Cell (PUC) Grid Connected Inverter. , 2020, , .		0
43	Modern Control Methods for Adaptive Droop Coefficientsâ€™ Design. Lecture Notes in Electrical Engineering, 2020, , 111-148.	0.3	0