

# Dr Y V Pavan Kumar

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

34  
papers

303  
citations

9  
h-index

16  
g-index

51  
ext. papers

420  
ext. citations

1.8  
avg, IF

4.06  
L-index

#	Paper	IF	Citations
34	Integrating Renewable Energy Sources to an Urban Building in India: Challenges, Opportunities, and Techno-Economic Feasibility Simulation. <i>Technology and Economics of Smart Grids and Sustainable Energy</i> , <b>2016</b> , 1, 1	2.1	54
33	Renewable energy based microgrid system sizing and energy management for green buildings. <i>Journal of Modern Power Systems and Clean Energy</i> , <b>2015</b> , 3, 1-13	4	45
32	A simple modular multilevel inverter topology for the power quality improvement in renewable energy based green building microgrids. <i>Electric Power Systems Research</i> , <b>2016</b> , 140, 147-161	3.5	40
31	Retrofitted Hybrid Power System Design With Renewable Energy Sources for Buildings. <i>IEEE Transactions on Smart Grid</i> , <b>2012</b> , 3, 2174-2187	10.7	31
30	Electrical machines based DC/AC energy conversion schemes for the improvement of power quality and resiliency in renewable energy microgrids. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2017</b> , 90, 10-26	5.1	17
29	Optimal sizing of microgrid for an urban community building in south India using HOMER <b>2014</b> ,		15
28	Review and retrofitted architectures to form reliable smart microgrid networks for urban buildings. <i>IET Networks</i> , <b>2015</b> , 4, 338-349	2.8	10
27	Modelling and Control Design for Variable Speed Wind Turbine Energy System <b>2020</b> ,		9
26	Distributed ANNs in a layered architecture for energy management and maintenance scheduling of renewable energy HPS microgrids <b>2012</b> ,		9
25	Fuzzy logic intelligent controlling concepts in industrial furnace temperature process control <b>2012</b> ,		6
24	Online attitude controlling of Longitudinal Autopilot for General Aviation Aircraft using Artificial Neural Networks <b>2013</b> ,		6
23	Power Quality Improvement in Renewable-Energy-Based Microgrid Clusters Using Fuzzy Space Vector PWM Controlled Inverter. <i>Sustainability</i> , <b>2022</b> , 14, 4663	3.6	6
22	Performance analysis of green microgrid architectures by comparing power quality indices <b>2014</b> ,		4
21	Improving resiliency in renewable energy based green microgrids using virtual synchronous machines controlled inverter <b>2015</b> ,		4
20	Application of neural networks in process control: Automatic/online tuning of PID controller gains for $\pm 10\%$ disturbance rejection <b>2012</b> ,		4
19	Review and Refined Architectures for Monitoring, Information Exchange, and Control of Interconnected Distributed Resources. <i>Advances in Intelligent Systems and Computing</i> , <b>2015</b> , 383-389	0.4	4
18	Design of Robust PID Controller for Improving Voltage Response of a Cuk Converter. <i>Lecture Notes in Electrical Engineering</i> , <b>2021</b> , 301-318	0.2	4

17	Fuzzy logic based adaptive virtual inertia in droop control operation of the microgrid for improved transient response <b>2017</b> ,		3
16	<b>2014</b> ,		3
15	Monitoring and control of real time simulated microgrid with renewable energy sources <b>2012</b> ,		3
14	Error Performance Index Based PID Tuning Methods for Temperature Control of Heat Exchanger System <b>2021</b> ,		3
13	Fuzzy Logic-Based Intelligent PID Controller for Speed Control of Linear Internal Combustion Engine. <i>Lecture Notes in Electrical Engineering</i> , <b>2021</b> , 505-521	0.2	3
12	Fuzzy Hysteresis Current Controller for Power Quality Enhancement in Renewable Energy Integrated Clusters. <i>Sustainability</i> , <b>2022</b> , 14, 4851	3.6	3
11	Real time and high fidelity controller design for Hardware In the Loop (HIL) testing of flight attitude control <b>2014</b> ,		2
10	Monitoring and power scheduling of a microgrid with distributed real time controllers in dynamically simulated environment <b>2012</b> ,		2
9	Implementation of Neural Network-based PID Controller for Speed Control of an IC Engine. <i>Lecture Notes in Electrical Engineering</i> , <b>2022</b> , 409-418	0.2	1
8	Transient Performance Analysis of Buck Boost Converter Using Various PID Gain Tuning Methods <b>2020</b> ,		1
7	Design of voltage and current controller parameters using small signal model-based pole-zero cancellation method for improved transient response in microgrids. <i>SN Applied Sciences</i> , <b>2021</b> , 3, 1	1.8	1
6	Artificial Intelligence Based Control Methods for Speed Control of Wind Turbine Energy System. <i>Lecture Notes in Electrical Engineering</i> , <b>2021</b> , 203-217	0.2	1
5	Improved Harmonic Profile of Multilevel Inverter Topology with Shifted Carrier Modulation Technique. <i>Lecture Notes in Electrical Engineering</i> , <b>2021</b> , 191-201	0.2	1
4	Modelling of Neural Network-based MPPT Controller for Wind Turbine Energy System. <i>Lecture Notes in Electrical Engineering</i> , <b>2022</b> , 429-439	0.2	0
3	Fuzzy Logic Theory-Based PI Controller Tuning for Improved Control of Liquid Level System. <i>Algorithms for Intelligent Systems</i> , <b>2021</b> , 133-143	0.5	0
2	Modern Control Methods for Adaptive Droop Coefficients Design. <i>Lecture Notes in Electrical Engineering</i> , <b>2020</b> , 111-148	0.2	
1	A Simple and Low-Cost HIL Solution for Control of Power Electronic Converters. <i>Lecture Notes in Electrical Engineering</i> , <b>2021</b> , 179-189	0.2	