Dr Y V Pavan Kumar

List of Publications by Year in Descending Order

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This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
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	Modelling of Neural Network-based MPPT Controller for Wind Turbine Energy System. *Lecture Notes in Electrical Engineering*, **2022**, 429-439	0.2	0
33	Implementation of Neural Network-based PID Controller for Speed Control of an IC Engine. *Lecture Notes in Electrical Engineering*, **2022**, 409-418	0.2	1
32	Fuzzy Hysteresis Current Controller for Power Quality Enhancement in Renewable Energy Integrated Clusters. *Sustainability*, **2022**, 14, 4851	3.6	3
31	Power Quality Improvement in Renewable-Energy-Based Microgrid Clusters Using Fuzzy Space Vector PWM Controlled Inverter. *Sustainability*, **2022**, 14, 4663	3.6	6
30	Fuzzy Logic Theory-Based PI Controller Tuning for Improved Control of Liquid Level System. *Algorithms for Intelligent Systems*, **2021**, 133-143	0.5	0
29	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	1.8	1
28	Error Performance Index Based PID Tuning Methods for Temperature Control of Heat Exchanger System **2021**,		3
27	Design of Robust PID Controller for Improving Voltage Response of a Cuk Converter. *Lecture Notes in Electrical Engineering*, **2021**, 301-318	0.2	4
26	Fuzzy Logic-Based Intelligent PID Controller for Speed Control of Linear Internal Combustion Engine. *Lecture Notes in Electrical Engineering*, **2021**, 505-521	0.2	3
25	A Simple and Low-Cost HIL Solution for Control of Power Electronic Converters. *Lecture Notes in Electrical Engineering*, **2021**, 179-189	0.2	
24	Artificial Intelligence Based Control Methods for Speed Control of Wind Turbine Energy System. *Lecture Notes in Electrical Engineering*, **2021**, 203-217	0.2	1
23	Improved Harmonic Profile of Multilevel Inverter Topology with Shifted Carrier Modulation Technique. *Lecture Notes in Electrical Engineering*, **2021**, 191-201	0.2	1
22	Modelling and Control Design for Variable Speed Wind Turbine Energy System **2020**,		9
21	Transient Performance Analysis of Buck Boost Converter Using Various PID Gain Tuning Methods **2020**,		1
20	Modern Control Methods for Adaptive Droop Coefficients Design. *Lecture Notes in Electrical Engineering*, **2020**, 111-148	0.2	
19	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	5.1	17
18	Fuzzy logic based adaptive virtual inertia in droop control operation of the microgrid for improved transient response **2017**,		3

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17	Integrating Renewable Energy Sources to an Urban Building in India: Challenges, Opportunities, and Techno-Economic Feasibility Simulation. *Technology and Economics of Smart Grids and Sustainable Energy*, **2016**, 1, 1	2.1	54
16	A simple modular multilevel inverter topology for the power quality improvement in renewable energy based green building microgrids. *Electric Power Systems Research*, **2016**, 140, 147-161	3.5	40
15	Renewable energy based microgrid system sizing and energy management for green buildings. *Journal of Modern Power Systems and Clean Energy*, **2015**, 3, 1-13	4	45
14	Review and retrofitted architectures to form reliable smart microgrid networks for urban buildings. *IET Networks*, **2015**, 4, 338-349	2.8	10
13	Improving resiliency in renewable energy based green microgrids using virtual synchronous machines controlled inverter **2015**,		4
12	Review and Refined Architectures for Monitoring, Information Exchange, and Control of Interconnected Distributed Resources. *Advances in Intelligent Systems and Computing*, **2015**, 383-389	0.4	4
11	Performance analysis of green microgrid architectures by comparing power quality indices **2014**,		4
10	**2014**,		3
9	Real time and high fidelity controller design for Hardware In the Loop (HIL) testing of flight attitude control **2014**,		2
8	Optimal sizing of microgrid for an urban community building in south India using HOMER **2014**,		15
7	Online attitude controlling of Longitudinal Autopilot for General Aviation Aircraft using Artificial Neural Networks **2013**,		6
6	Application of neural networks in process control: Automatic/online tuning of PID controller gains for □10% disturbance rejection **2012**,		4
5	Monitoring and control of real time simulated microgrid with renewable energy sources **2012**,		3
4	Fuzzy logic intelligent controlling concepts in industrial furnace temperature process control **2012**,		6
3	Retrofitted Hybrid Power System Design With Renewable Energy Sources for Buildings. *IEEE Transactions on Smart Grid*, **2012**, 3, 2174-2187	10.7	31
2	Distributed ANNs in a layered architecture for energy management and maintenance scheduling of renewable energy HPS microgrids **2012**,		9
1	Monitoring and power scheduling of a microgrid with distributed real time controllers in dynamically simulated environment **2012**,		2