

Dr Y V Pavan Kumar

List of Publications by Year in descending order

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48
papers

522
citations

1162367

8
h-index

794141

19
g-index

51
all docs

51
docs citations

51
times ranked

385
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	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.	1.8	65
3	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.	2.1	49
4	Retrofitted Hybrid Power System Design With Renewable Energy Sources for Buildings. IEEE Transactions on Smart Grid, 2012, 3, 2174-2187.	6.2	46
5	Power Quality Improvement in Renewable-Energy-Based Microgrid Clusters Using Fuzzy Space Vector PWM Controlled Inverter. Sustainability, 2022, 14, 4663.	1.6	29
6	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
7	Optimal sizing of microgrid for an urban community building in south India using HOMER. , 2014, , .		23
8	Modelling and Control Design for Variable Speed Wind Turbine Energy System. , 2020, , .		19
9	Review and retrofitted architectures to form reliable smart microgrid networks for urban buildings. IET Networks, 2015, 4, 338-349.	1.1	18
10	Distributed ANNs in a layered architecture for energy management and maintenance scheduling of renewable energy HPS microgrids. , 2012, , .		14
11	Fuzzy logic based adaptive virtual inertia in droop control operation of the microgrid for improved transient response. , 2017, , .		12
12	Fuzzy Hysteresis Current Controller for Power Quality Enhancement in Renewable Energy Integrated Clusters. Sustainability, 2022, 14, 4851.	1.6	12
13	Fuzzy logic intelligent controlling concepts in industrial furnace temperature process control. , 2012, , .		11
14	Online attitude controlling of Longitudinal Autopilot for General Aviation Aircraft using Artificial Neural Networks. , 2013, , .		11
15	Application of neural networks in process control: Automatic/online tuning of PID controller gains for ±10% disturbance rejection. , 2012, , .		10
16	Improving resiliency in renewable energy based green microgrids using virtual synchronous machines controlled inverter. , 2015, , .		10
17	Smart Grid Communication and Networking: Review of Standards. , 2021, , .		8
18	Error Performance Index Based PID Tuning Methods for Temperature Control of Heat Exchanger System. , 2021, , .		7

#	ARTICLE	IF	CITATIONS
19	Monitoring and control of real time simulated microgrid with renewable energy sources. , 2012, , .		6
20	Design of Robust PID Controller for Improving Voltage Response of a Cuk Converter. Lecture Notes in Electrical Engineering, 2021, , 301-318.	0.3	6
21	Industrial Heating Furnace Temperature Control System Design Through Fuzzy-PID Controller. , 2021, , .		6
22	Investigating the power quality improvement strategies for urban building microgrids. , 2014, , .		5
23	Performance analysis of green microgrid architectures by comparing power quality indices. , 2014, , .		5
24	Fuzzy Logic-Based Intelligent PID Controller for Speed Control of Linear Internal Combustion Engine. Lecture Notes in Electrical Engineering, 2021, , 505-521.	0.3	5
25	Review and Refined Architectures for Monitoring, Information Exchange, and Control of Interconnected Distributed Resources. Advances in Intelligent Systems and Computing, 2015, , 383-389.	0.5	5
26	Demystifying LoRa Wireless Technology for IoT Applications: Concept to Experiment. , 2021, , .		5
27	Salp swarm algorithm based optimal speed control for electric vehicles. International Journal of Power Electronics and Drive Systems, 2022, 13, 755.	0.5	5
28	Real time and high fidelity controller design for Hardware In the Loop (HIL) testing of flight attitude control. , 2014, , .		4
29	Transient Performance Analysis of Buck Boost Converter Using Various PID Gain Tuning Methods. , 2020, , .		4
30	Monitoring and power scheduling of a microgrid with distributed real time controllers in dynamically simulated environment. , 2012, , .		3
31	Artificial Intelligence Based Control Methods for Speed Control of Wind Turbine Energy System. Lecture Notes in Electrical Engineering, 2021, , 203-217.	0.3	3
32	Modelling of Neural Network-based MPPT Controller for Wind Turbine Energy System. Lecture Notes in Electrical Engineering, 2022, , 429-439.	0.3	3
33	Performance analysis of static versus rotary DC/AC power converters for hybrid renewable energy based microgrid applications. , 2016, , .		2
34	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
35	Investigation on PID Controller Tuning Methods for Aircraft Fuselage Temperature Control. , 2020, , .		2
36	Analysis on the Effectiveness of Vertical Axis Wind Turbine for Domestic Consumers. , 2020, , .		2

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37	Acute Decisive Fuzzy Haptic Surface Response System for Tactile Sensitivity. , 2022, , .		2
38	Performance Enhancement of Doubly Fed Induction Generatorâ€™Based Wind Farms With STATCOM in Faulty HVDC Grids. Frontiers in Energy Research, 0, 10, .	1.2	2
39	Real time and high fidelity simulation of Hybrid Power System dynamics. , 2011, , .		1
40	Technology refresh in asset management systems for smart distribution buildings. , 2014, , .		1
41	Implementation of Minigrid with Hybrid Renewable Energy Sources for Urban Community Buildings. International Journal of Recent Technology and Engineering, 2019, 8, 10882-10892.	0.2	1
42	Fuzzy Logic Theory-Based PI Controller Tuning for Improved Control of Liquid Level System. Algorithms for Intelligent Systems, 2021, , 133-143.	0.5	1
43	Real Time Voltage Instability Detection in DFIG Based Wind Integrated Grid with Dynamic Components. International Journal of Computing and Digital Systems, 2021, 10, 795-804.	0.5	1
44	Quantitative Analysis on Open-Loop PI Tuning Methods for Liquid Level Control. , 2021, , .		1
45	Switch automation of smart devices between test beds using distributed control system. , 2014, , .		0
46	Virtual SM-DFIG based automatic control strategy for enhancing the power quality in microgrids. , 2016, , .		0
47	Modern Control Methods for Adaptive Droop Coefficientsâ€™ Design. Lecture Notes in Electrical Engineering, 2020, , 111-148.	0.3	0
48	Implementation of Harris Hawks optimization for load frequency control of hydropower plant. International Journal of Power Electronics and Drive Systems, 2022, 13, 1093.	0.5	0