

Jagadeesh Pasupuleti

List of Publications by Year in descending order

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77
papers

1,552
citations

394421

19
h-index

315739

38
g-index

77
all docs

77
docs citations

77
times ranked

1538
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of strategic charging"discharging control of grid-connected electric vehicles. Journal of Energy Storage, 2020, 28, 101193.	8.1	188
2	Multi-agent based distributed control architecture for microgrid energy management and optimization. Energy Conversion and Management, 2016, 112, 288-307.	9.2	153
3	Combined heat and power (CHP) economic dispatch solved using Lagrangian relaxation with surrogate subgradient multiplier updates. International Journal of Electrical Power and Energy Systems, 2013, 44, 421-430.	5.5	134
4	A review of process and operational system control of hybrid photovoltaic/diesel generator systems. Renewable and Sustainable Energy Reviews, 2015, 44, 436-446.	16.4	114
5	Optimal combination of solar, wind, micro-hydro and diesel systems based on actual seasonal load profiles for a resort island in the South China Sea. Energy, 2015, 82, 80-97.	8.8	94
6	Application and assessment of internet of things toward the sustainability of energy systems: Challenges and issues. Sustainable Cities and Society, 2020, 53, 101957.	10.4	89
7	Prospective Methodologies in Hybrid Renewable Energy Systems for Energy Prediction Using Artificial Neural Networks. Sustainability, 2021, 13, 2393.	3.2	62
8	A Comparative Performance Analysis of ANN Algorithms for MPPT Energy Harvesting in Solar PV System. IEEE Access, 2021, 9, 102137-102152.	4.2	60
9	Simplified performance models of photovoltaic/diesel generator/battery system considering typical control strategies. Energy Conversion and Management, 2015, 99, 313-325.	9.2	54
10	Prospective Efficient Ambient Energy Harvesting Sources for IoT-Equipped Sensor Applications. Electronics (Switzerland), 2020, 9, 1345.	3.1	45
11	Optimal Placement and Sizing of DGs in Distribution Networks Using MLPPO Algorithm. Energies, 2020, 13, 6185.	3.1	38
12	An Overview of the Building Energy Management System Considering the Demand Response Programs, Smart Strategies and Smart Grid. Energies, 2020, 13, 3299.	3.1	34
13	The Optimal Placement and Sizing of Distributed Generation in an Active Distribution Network with Several Soft Open Points. Energies, 2021, 14, 1084.	3.1	30
14	A review on the characteristic of biomass and classification of bioenergy through direct combustion and gasification as an alternative power supply. Journal of Physics: Conference Series, 2021, 1831, 012033.	0.4	30
15	An Adaptive TE-PV Hybrid Energy Harvesting System for Self-Powered IoT Sensor Applications. Sensors, 2021, 21, 2604.	3.8	24
16	A Review of Energy Management and Power Management Systems for Microgrid and Nanogrid Applications. Sustainability, 2021, 13, 10331.	3.2	24
17	Coordination of PSS and PID Controller for Power System Stability Enhancement " Overview. Indian Journal of Science and Technology, 2015, 8, 142.	0.7	22
18	Self-Sustained Autonomous Wireless Sensor Network with Integrated Solar Photovoltaic System for Internet of Smart Home-Building (IoSHB) Applications. Micromachines, 2021, 12, 653.	2.9	22

#	ARTICLE	IF	CITATIONS
19	IoT-Enabled High Efficiency Smart Solar Charge Controller with Maximum Power Point Tracking Design, Hardware Implementation and Performance Testing. Electronics (Switzerland), 2020, 9, 1267.	3.1	21
20	Modeling and Characterization of a Photovoltaic Array Based on Actual Performance Using Cascade-Forward Back Propagation Artificial Neural Network. Journal of Solar Energy Engineering, Transactions of the ASME, 2015, 137, .	1.8	20
21	A Review of the Sustainable Utilization of Rice Residues for Bioenergy Conversion Using Different Valorization Techniques, Their Challenges, and Techno-Economic Assessment. International Journal of Environmental Research and Public Health, 2022, 19, 3427.	2.6	20
22	Optimal Operation of Stand-Alone Microgrid Considering Emission Issues and Demand Response Program Using Whale Optimization Algorithm. Sustainability, 2021, 13, 7710.	3.2	19
23	Generalized approach to assess and characterise the impact of solar PV on LV networks. International Journal of Electrical Power and Energy Systems, 2020, 121, 106058.	5.5	18
24	Comparison of Reactive Power Control Techniques for Solar PV Inverters to Mitigate Voltage Rise in Low-Voltage Grids. Electronics (Switzerland), 2021, 10, 1569.	3.1	18
25	Load frequency control for mini-hydropower system: A new approach based on self-tuning fuzzy proportional-derivative scheme. Sustainable Energy Technologies and Assessments, 2018, 30, 253-262.	2.7	16
26	The Effect of Plants on the Energy Output of Green Roof Photovoltaic Systems in Tropical Climates. Sustainability, 2021, 13, 4505.	3.2	16
27	Optimal Grid-Connected PV System for a Campus Microgrid. Indonesian Journal of Electrical Engineering and Computer Science, 2018, 12, 899.	0.8	16
28	Energy management system for PV-battery microgrid based on model predictive control. Indonesian Journal of Electrical Engineering and Computer Science, 2019, 15, 20.	0.8	16
29	Optimal combinations of PV, wind, micro-hydro and diesel systems for a seasonal load demand. , 2014, , .		12
30	Mitigation of overvoltage due to high penetration of solar photovoltaics using smart inverters volt/var control. Indonesian Journal of Electrical Engineering and Computer Science, 2020, 19, 1259.	0.8	10
31	Smart Buildings Aggregator Bidding Strategy as a Negawatt Demand Response Resources in the Spinning Reserve Electricity Market. , 2019, , .		9
32	Battery Energy Storage System for PV Output Power Leveling. Advances in Power Electronics, 2014, 2014, 1-11.	0.8	8
33	An Autonomous Home Energy Management System Using Dynamic Priority Strategy in Conventional Homes. Energies, 2020, 13, 3312.	3.1	8
34	Micro-hydropower potential assessment and generation volatility due to seasonal climate. , 2014, , .		7
35	Modeling of photovoltaic array output current based on actual performance using artificial neural networks. Journal of Renewable and Sustainable Energy, 2015, 7, 053107.	2.0	6
36	BBO algorithm-based tuning of PID controller for speed control of synchronous machine. Turkish Journal of Electrical Engineering and Computer Sciences, 2016, 24, 3274-3285.	1.4	6

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37	Performance Evaluation of Solar PV Inverter Controls for Overvoltage Mitigation in MV Distribution Networks. <i>Electronics (Switzerland)</i> , 2021, 10, 1456.	3.1	6
38	Power system stabilizer optimization using BBO algorithm for a better damping of rotor oscillations owing to small disturbances. <i>FME Transactions</i> , 2019, 47, 166-176.	1.4	6
39	Single Machine connected Infinite Bus system tuning coordination control using Biogeography: Based Optimization algorithm. <i>FME Transactions</i> , 2019, 47, 502-510.	1.4	6
40	A comprehensive study and performance analysis of deep neural network-based approaches in wind time-series forecasting. <i>Journal of Reliable Intelligent Environments</i> , 2023, 9, 183-200.	5.2	6
41	DFIG wind-turbine modeling with reactive power control integrated to large distribution network. , 2014, , .		5
42	Data from renewable energy assessments for resort islands in the South China Sea. <i>Data in Brief</i> , 2016, 6, 117-120.	1.0	5
43	The impacts of number of solar photovoltaic units on distribution network losses and voltage profile. , 2020, , .		5
44	Energy audit data for a resort island in the South China Sea. <i>Data in Brief</i> , 2016, 6, 489-491.	1.0	4
45	Comprehensive learning particle swarm optimization for sizing and placement of distributed generation for network loss reduction. <i>Indonesian Journal of Electrical Engineering and Computer Science</i> , 2020, 20, 16.	0.8	4
46	Sensitivity of artificial neural network based model for photovoltaic system actual performance. , 2014, , .		3
47	Auto tuning of PID controller of a synchronous machine connected to a linear and non linear load. , 2014, , .		3
48	Electricity demand uncertainty modeling using enhanced path-based scenario generation method. , 2017, , .		3
49	Technical Constraints of Integrating Net Energy Metering from the Malaysian Perspective. , 2018, , .		3
50	Network loss reduction and voltage improvement by optimal placement and sizing of distributed generators with active and reactive power injection using fine-tuned PSO. <i>Indonesian Journal of Electrical Engineering and Computer Science</i> , 2021, 21, 647.	0.8	3
51	Experiment analysis on the characteristic of empty fruit bunch, palm kernel shell, coconut shell, and rice husk for biomass boiler fuel. <i>Journal of Mechanical Engineering and Sciences</i> , 2021, 15, 8300-8309.	0.6	3
52	Assessing the Performance of Smart Inverter Functionalities in PV-Rich LV Distribution Networks. , 2020, , .		3
53	A Comparative Study of the Z-N, Adaptation Law and PSO Methods of Tuning the PID Controller of a Synchronous Machine. <i>International Review on Modelling and Simulations</i> , 2014, 7, 918.	0.3	3
54	Strategies to improve energy efficiency in sewage treatment plants. <i>IOP Conference Series: Earth and Environmental Science</i> , 2013, 16, 012033.	0.3	2

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55	Demand Response Impact on Market Operator's Revenue and Load Profile of a Grid Connected with Wind Power Plants. Journal of Electrical Engineering and Technology, 2013, 8, 46-52.	2.0	2
56	Design of an Almost Harmonic-free TCR. Research Journal of Applied Sciences, Engineering and Technology, 2014, 7, 388-395.	0.1	2
57	Automatic Power Factor Correction Using a Harmonic-Suppressed TCR Equipped with a New Adaptive Current Controller. Journal of Power Electronics, 2014, 14, 742-753.	1.5	2
58	Performance assessment of a 619kW photovoltaic power plant in the northeast of peninsular Malaysia. Indonesian Journal of Electrical Engineering and Computer Science, 2020, 20, 9.	0.8	2
59	Anticipatory response model for multi-agent based energy management system in a standalone microgrid. , 2016, , .		1
60	Modeling and Simulation of a PV-Diesel-Battery System for a Standalone Microgrid. , 2018, , .		1
61	Implementation and Analysis of BBO Algorithm for Better Damping of Rotor Oscillations of a Synchronous Machine. Advances in Intelligent Systems and Computing, 2018, , 73-85.	0.6	1
62	PV-Battery System Design for an Indigenous People School in Malaysia. , 2019, , .		1
63	Performance evaluation of PV penetration at different locations in a LV distribution network connected with an off-load tap changing transformer. Indonesian Journal of Electrical Engineering and Computer Science, 2021, 21, 987.	0.8	1
64	Multi-Leader Particle Swarm Optimization for Optimal Planning of Distributed Generation. , 2020, , .		1
65	Control of Hybrid Distributed Energy Resources with Storage Connected to Microgrid. IOP Conference Series: Materials Science and Engineering, 0, 932, 012093.	0.6	1
66	Technical and Economic Analysis of Floating PV System for Putra Mosque in Malaysia. , 2020, , .		1
67	Implementation of photovoltaics in Malaysia. , 2009, , .		0
68	Building automation: Photovoltaic assisted thermal comfort management system for energy saving. IOP Conference Series: Earth and Environmental Science, 2013, 16, 012013.	0.3	0
69	Energy efficiency monitoring and economic analysis for energy saving potential in UNITEN. IOP Conference Series: Earth and Environmental Science, 2013, 16, 012012.	0.3	0
70	4th International Conference on Energy and Environment 2013 (ICEE 2013). IOP Conference Series: Earth and Environmental Science, 2013, 16, 011001.	0.3	0
71	Design of a Three-Phase Statcom-Based Inductive Static VAR Compensator Using DC Capacitor Voltage Control Scheme. Research Journal of Applied Sciences, Engineering and Technology, 2013, 5, 1674-1680.	0.1	0
72	Replacement model for hybrid Photovoltaic/Diesel generator/Battery system's components with typical control strategy. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
73	Micro-Hydro and Pico-Hydro Potential Assessment for Ungauged Sites in the South China Sea Islands. Applied Mechanics and Materials, 0, 785, 632-636.	0.2	0
74	A micro-hydropower system model with PD load frequency controller for Resort Islands in the South China Sea. IOP Conference Series: Earth and Environmental Science, 2016, 32, 012003.	0.3	0
75	A new fuzzy self-tuning PD load frequency controller for micro-hydropower system. IOP Conference Series: Earth and Environmental Science, 2016, 32, 012002.	0.3	0
76	Mechanism of Photoanodes for Dye-Sensitized and Perovskite Solar Cells. Handbook of Environmental Chemistry, 2020, , 25-44.	0.4	0
77	Islanded Microgrid with Decentralized Control for Optimal Generation Dispatch. , 2020, , .		0