

Ramesh K Rayudu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2055155/publications.pdf>

Version: 2024-02-01

112
papers

2,262
citations

331670

21
h-index

289244

40
g-index

113
all docs

113
docs citations

113
times ranked

2604
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive review of energy extraction from low-temperature geothermal resources in hydrocarbon fields. Renewable and Sustainable Energy Reviews, 2022, 154, 111865.	16.4	24
2	Characterization of 400 Volt High Impedance Fault With Current and Magnetic Field Measurements. IEEE Transactions on Power Delivery, 2021, 36, 3538-3549.	4.3	4
3	Greenhouse gas emissions from geothermal powerplants in New Zealand: Is reinjection of gases a solution?. , 2021, , .		1
4	Mātauranga Māori in Power Engineering - Achieving sustainability and zero carbon futures with countries' indigenous knowledge in design. , 2021, , .		0
5	Identifying issues in geothermal energy production from petroleum fields. , 2021, , .		3
6	Classification of Stages of a High Impedance Fault Using Sequential Learning Algorithms. , 2020, , .		0
7	Investigation of the Impact of Weather on Multi-Machine Transient Stability Analysis. , 2020, , .		3
8	Solar Atlas of New Zealand from satellite imagery. Journal of the Royal Society of New Zealand, 2020, 50, 572-583.	1.9	6
9	A Sensitivity Framework to Assess the Impact of Weather on Electric Power Networks. , 2020, , .		0
10	Weather-Dependent AC Power Flow Algorithms. , 2020, , .		0
11	Microgrids for rural schools: An energy-education accord to curb societal challenges for sustainable rural developments. International Journal of Renewable Energy Development, 2019, 8, 231-241.	2.4	3
12	A green public transportation system using E-buses: A technical and commercial feasibility study. Sustainable Cities and Society, 2019, 51, 101789.	10.4	18
13	Factors Determining the Effectiveness of a Wind Turbine Generator Lightning Protection System. IEEE Transactions on Industry Applications, 2019, 55, 6585-6592.	4.9	9
14	Research Insights and Knowledge Headways for Developing Remote, Off-Grid Microgrids in Developing Countries. Energies, 2019, 12, 2008.	3.1	24
15	Frequency Domain Analysis of a Wind Turbine Generator Earthing System for Lightning Discharge Currents. IEEE Access, 2019, 7, 60501-60512.	4.2	11
16	A Facility for Physical Simulation of High Impedance Faults in Low Voltage Networks. , 2019, , .		2
17	Weather-Dependent Transient Stability Analysis of Single-Machine Infinite-Bus System. , 2019, , .		3
18	Impact of Sampling in the Operation of Vehicle to Grid and Its Mitigation. IEEE Transactions on Industrial Informatics, 2019, 15, 3923-3933.	11.3	26

#	ARTICLE	IF	CITATIONS
19	Weather-Dependent Power Flow Algorithm for Accurate Power System Analysis Under Variable Weather Conditions. IEEE Transactions on Power Systems, 2019, 34, 2719-2729.	6.5	27
20	Modelling impacts of utility-scale photovoltaic systems variability using the wavelet variability model for smart grid operations. Sustainable Energy Technologies and Assessments, 2019, 31, 292-305.	2.7	7
21	Coverage Preservation with Rapid Forwarding in Energy-Harvesting Wireless Sensor Networks for Critical Rare Events. Transactions on Embedded Computing Systems, 2018, 17, 1-25.	2.9	2
22	Use of Maximum Power Point Tracking Signal for Instantaneous Management of Thermostatically Controlled Loads in a DC Nanogrid. IEEE Transactions on Smart Grid, 2018, 9, 6140-6148.	9.0	11
23	An Evaluation of Potential Rise in a Wind Turbine Generator Earthing System During a Direct Lightning Strike. , 2018, , .		1
24	Transient Stability Study Incorporating Weather Effects on Conductors. , 2018, , .		10
25	A Proposed Method for Calculating Earth Electrode Length for a Wind Turbine Generator Grounding System. , 2018, , .		0
26	Performance and Stability Analysis of Hydraulically Driven Synchronous Generators in Power Engineering. , 2018, , .		0
27	Defining a remote village typology to improve the technical standard for off-grid electrification system design. , 2018, , .		3
28	Analysis of Lightning Generated Over-Voltages on Voltage Regulating Devices in Distribution System with Centralized Wind Turbine Generators. , 2018, , .		0
29	Demonstrated Rapid Ballistic Synchronization From Rest of a Hydraulically-Driven Synchronous Generator. IEEE Access, 2018, 6, 75609-75618.	4.2	2
30	A New Method for Calculating Earth Electrode Length for a Wind Turbine Generator Grounding System based on a Two-Layer Soil Structure. , 2018, , .		1
31	Analysis of Earth Electrodes of Wind Turbine Generator Grounding System Under Lightning Discharge Currents. , 2018, , .		1
32	Communication Architecture for Smart Grid Applications. , 2018, , .		6
33	Distributed Generation for Electrification of Rural Primary School and Health Centre: An Indian Perspective. , 2018, , .		2
34	Automatic design of fuzzy logic controllers for medium access control in wireless body area networks – An evolutionary approach. Applied Soft Computing Journal, 2017, 56, 245-261.	7.2	8
35	Impacts of Power Factor Control Schemes in Time Series Power Flow Analysis for Centralized PV Plants Using Wavelet Variability Model. IEEE Transactions on Industrial Informatics, 2017, 13, 3185-3194.	11.3	15
36	Techno-economic analysis of a 10kWp utility interactive photovoltaic system at Maungaraki school, Wellington, New Zealand. Energy, 2017, 120, 573-583.	8.8	55

#	ARTICLE	IF	CITATIONS
37	The impact of single-phase grid-connected distributed photovoltaic systems on the distribution network using P-Q and P-V models. International Journal of Electrical Power and Energy Systems, 2017, 91, 20-33.	5.5	31
38	Grid capacity released analysis and incremental addition computation for distribution system planning. Electric Power Systems Research, 2017, 152, 105-121.	3.6	8
39	A review of nanogrid topologies and technologies. Renewable and Sustainable Energy Reviews, 2017, 67, 760-775.	16.4	174
40	Life cycle impact assessment of photovoltaic power generation from crystalline silicon-based solar modules in Nigeria. Renewable Energy, 2017, 101, 537-549.	8.9	50
41	Evolution of dispatchable photovoltaic system integration with the electric power network for smart grid applications: A review. Renewable and Sustainable Energy Reviews, 2017, 67, 207-224.	16.4	59
42	Grid incremental capacity evaluation with an optimally deployed photovoltaic system in distribution network. , 2017, , .		2
43	Effect of an electric vehicle bus network on guwahati grid. , 2017, , .		3
44	Impact of centralized photovoltaic systems on utility power factor profile using the wavelet variability model. , 2017, , .		1
45	Rapid synchronisation procedure for a pneumo-hydraulically driven synchronous generator. , 2017, , .		2
46	A combined control strategy for load management within an interconnected nanogrid network. , 2017, , .		1
47	Impacts of distributed PV in a smart grid using temperature-dependent power flow. , 2017, , .		5
48	Testing and validation of FTR results in NZEM. , 2017, , .		0
49	Techno-economic analysis of hybrid renewable energy system for rural electrification in India. , 2017, , .		16
50	Influence of fluid selection on synchronous generators power output in compressed air energy storage systems. , 2017, , .		2
51	Feasibility of magnetic signature-based detection of low and high impedance faults in low-voltage distribution networks. , 2017, , .		3
52	Cooperative Design of Two Level Fuzzy Logic Controllers for Medium Access Control in Wireless Body Area Networks. Lecture Notes in Computer Science, 2017, , 870-882.	1.3	0
53	Severely noisy image segmentation via wavelet shrinkage using PSO and Fuzzy C-Means. , 2016, , .		4
54	Equipment loading and voltage unbalance in the distribution network with distributed PVs. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
55	Instantaneous nanogrid control using maximum power point tracking signal. , 2016, , .		2
56	q-Calculus based extended Kalman filter for the dynamic state estimation of a synchronous generator. , 2016, , .		2
57	Rapid synchronization procedure for a synchronous generator employing ballistic trajectory control. , 2016, , .		4
58	Opportunistic Geographic Forwarding in Wireless Sensor Networks for Critical Rare Events. , 2016, , .		3
59	Lightning protection analysis of main shaft bearings in wind turbine generators. , 2016, , .		4
60	Impact of large-scale integration of distributed photovoltaic with the distribution network. , 2016, , .		3
61	Instantaneous control of a DC water heater for a PV system. , 2016, , .		0
62	Evolutionary design of fuzzy logic controllers for medium access control in WBAN. , 2016, , .		2
63	Techno-economic and life cycle environmental performance analyses of a solar photovoltaic microgrid system for developing countries. Energy, 2016, 109, 160-179.	8.8	61
64	Community-based hybrid electricity supply system: A practical and comparative approach. Applied Energy, 2016, 171, 608-628.	10.1	34
65	Busting myths of energy models for wireless sensor networks. Electronics Letters, 2016, 52, 1412-1414.	1.0	12
66	Communication technologies for smart grid applications: A survey. Journal of Network and Computer Applications, 2016, 74, 133-148.	9.1	111
67	Comprehensive techno-economic and environmental impact study of a localised photovoltaic power system (PPS) for off-grid communities. Energy Conversion and Management, 2016, 124, 266-279.	9.2	45
68	Strategy for developing energy systems for remote communities: Insights to best practices and sustainability. Sustainable Energy Technologies and Assessments, 2016, 16, 106-127.	2.7	40
69	Rare Event Detection and Propagation in Wireless Sensor Networks. ACM Computing Surveys, 2016, 48, 1-22.	23.0	38
70	Comparative study of photovoltaic technologies based on performance, cost and space requirement: Strategy for selection and application. International Journal of Green Energy, 2016, 13, 1352-1368.	3.8	20
71	A New Modification of Fuzzy C-Means via Particle Swarm Optimization for Noisy Image Segmentation. Lecture Notes in Computer Science, 2016, , 147-159.	1.3	2
72	Coverage preservation in energy harvesting wireless sensor networks for rare events. , 2015, , .		8

#	ARTICLE	IF	CITATIONS
73	A fuzzy logic based cross-layer mechanism for medium access control in WBAN. , 2015, , .		10
74	Distributed generation nanogrid load control system. , 2015, , .		3
75	Impact of series active voltage conditioners on modernized grid. , 2015, , .		0
76	Modelling and simulation of a solar PV lithium ion battery charger for energy kiosks application. , 2015, , .		7
77	Grid-independent renewable energy solutions for residential use: The case of an off-grid house in wellington, New Zealand. , 2015, , .		7
78	Development of photovoltaic power plant for remote residential applications: The socio-technical and economic perspectives. Applied Energy, 2015, 155, 131-149.	10.1	73
79	Global progress in photovoltaic technologies and the scenario of development of solar panel plant and module performance estimation â Application in Nigeria. Renewable and Sustainable Energy Reviews, 2015, 48, 112-139.	16.4	79
80	A Heuristic Solution for Noisy Image Segmentation using Particle Swarm Optimization and Fuzzy Clustering. , 2015, , .		2
81	A comparison between temperature and current sensing in photovoltaic maximum power point tracking. , 2014, , .		3
82	Analysis of linear loss models — A New Zealand perspective. , 2014, , .		2
83	Decentralized energy generation for end-use applications: Economic, social and environmental benefits assessment. , 2014, , .		12
84	Review of energy storage technologies for sustainable power networks. Sustainable Energy Technologies and Assessments, 2014, 8, 74-91.	2.7	454
85	Clean development mechanism projects for developing countries: Potential for carbon emissions mitigation and sustainable development. , 2014, , .		8
86	Reliable measurement of Wireless Sensor Network data for forecasting wellness of elderly at smart home. , 2013, , .		22
87	Forecasting the behavior of an elderly using wireless sensors data in a smart home. Engineering Applications of Artificial Intelligence, 2013, 26, 2641-2652.	8.1	221
88	A feature-based region growing-merging approach to color image segmentation. , 2013, , .		1
89	Single Ended Primary Inductor Converter reliance of efficiency on switching frequency for use in MPPT application. , 2013, , .		3
90	Distributed photovoltaic power generation for energy-poor households: The Nigerian perspective. , 2013, , .		17

#	ARTICLE	IF	CITATIONS
91	A new image segmentation algorithm based on modified seeded region growing and particle swarm optimization. , 2013, , .		8
92	Inertial support performance of grid connected DFIC. , 2013, , .		1
93	Managing peak demand using direct load monitoring and control. , 2013, , .		1
94	Ambient assisted living framework for elderly wellness determination through wireless sensor scalar data. , 2013, , .		9
95	Applying SARIMA time series to forecast sleeping activity for wellness model of elderly monitoring in smart home. , 2012, , .		17
96	Sensor data fusion to determine wellness of an elderly in intelligent home monitoring environment. , 2012, , .		27
97	Wireless sensors network based safe home to care elderly people: Behaviour detection. Sensors and Actuators A: Physical, 2012, 186, 277-283.	4.1	94
98	Balancing wind intermittency using hydro reserves and demand response. , 2012, , .		2
99	Effect of multiple compact fluorescent lamp usage on residential power quality. , 2012, , .		1
100	Towards a tool for non-intrusive individual load measurement and identification. , 2011, , .		2
101	Wellness determination of inhabitant based on daily activity behaviour in real-time monitoring using Sensor Networks. , 2011, , .		13
102	Wireless Sensors Network Based Safe Home to Care Elderly People: Behaviour Detection. Procedia Engineering, 2011, 25, 96-99.	1.2	20
103	A knowledge-based architecture for distributed fault analysis in power networks. Engineering Applications of Artificial Intelligence, 2010, 23, 514-525.	8.1	11
104	Power quality indices of Compact Fluorescent Lamps for residential use — A New Zealand study. , 2010, , .		11
105	Towards finding an optimum wind turbine height for residential and business use. , 2010, , .		2
106	Introducing ePortfolios to computer science and engineering students: A New Zealand experience. , 2009, , .		4
107	Training for safety in Deregulated environment. , 2009, , .		0
108	An efficient algorithm for mining frequent closed itemsets in dynamic transaction databases. International Journal of Intelligent Systems Technologies and Applications, 2008, 4, 313.	0.2	7

#	ARTICLE	IF	CITATIONS
109	Preparation for lifelong learning using ePortfolios. European Journal of Engineering Education, 2007, 32, 653-663.	2.3	61
110	Work In Progress: E-portfolios in Computer Science and Engineering Education. , 2006, , .		3
111	A Distributed Architecture for Power Network Fault Analysis. , 2005, , .		0
112	A co-operative hybrid algorithm for fault diagnosis in power transmission. , 0, , .		2