

Chin Kim Gan

List of Publications by Year in descending order

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73
papers

916
citations

623734

14
h-index

580821

25
g-index

74
all docs

74
docs citations

74
times ranked

999
citing authors

#	ARTICLE	IF	CITATIONS
1	Smart control for minimizing distribution network reinforcement cost due to electrification. Energy Policy, 2013, 52, 76-84.	8.8	123
2	Improved energy conversion performance of a novel design of concentrated photovoltaic system combined with thermoelectric generator with advance cooling system. Energy Conversion and Management, 2018, 177, 19-29.	9.2	70
3	Operation and control strategies of integrated distributed energy resources: A review. Renewable and Sustainable Energy Reviews, 2015, 51, 1412-1420.	16.4	65
4	A review of recent development in smart grid and micro-grid laboratories. , 2012, , .		49
5	Techno-Economic Analysis of LED Lighting: A Case Study in UTeM's Faculty Building. Procedia Engineering, 2013, 53, 208-216.	1.2	46
6	Statistical appraisal of economic design strategies of LV distribution networks. Electric Power Systems Research, 2011, 81, 1363-1372.	3.6	35
7	A comparison of heuristic optimization techniques for optimal placement and sizing of photovoltaic based distributed generation in a distribution system. Solar Energy, 2016, 140, 219-226.	6.1	30
8	The impact of electric vehicle charging on a residential low voltage distribution network in Malaysia. , 2014, , .		29
9	Energy performance investigation of nanofluidâ€based concentrated photovoltaic / <scp>thermalâ€thermoelectric</scp> generator hybrid system. International Journal of Energy Research, 2021, 45, 9039-9057.	4.5	29
10	The impact of grid-connected PV systems on Harmonic Distortion. , 2014, , .		28
11	Evaluation of the impact of electric heat pumps and distributed CHP on LV networks. , 2011, , .		26
12	Impact of Solar Photovoltaic System on Transformer Tap Changer in Low Voltage Distribution Networks. Energy Procedia, 2016, 103, 58-63.	1.8	25
13	Short-term forecasting of solar photovoltaic output power for tropical climate using ground-based measurement data. Journal of Renewable and Sustainable Energy, 2016, 8, .	2.0	24
14	Impact of grid-connected residential PV systems on the malaysia low voltage distribution network. , 2013, , .		21
15	Optimal design of low-voltage distribution networks for CO2 emission minimisation. Part II: Discrete optimisation of radial networks and comparison with alternative design strategies. IET Generation, Transmission and Distribution, 2011, 5, 47.	2.5	20
16	System wide MV distribution network technical losses estimation based on reference feeder and energy flow model. International Journal of Electrical Power and Energy Systems, 2017, 93, 440-450.	5.5	20
17	Optimal design of low-voltage distribution networks for CO2 emission minimisation. Part I: model formulation and circuit continuous optimisation. IET Generation, Transmission and Distribution, 2011, 5, 38.	2.5	16
18	Strategic Assessment of Alternative Design Options for Multivoltage-Level Distribution Networks. IEEE Transactions on Power Systems, 2014, 29, 1261-1269.	6.5	16

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19	Forecasting Solar Power Using Hybrid Firefly and Particle Swarm Optimization (HFPSO) for Optimizing the Parameters in a Wavelet Transform-Adaptive Neuro Fuzzy Inference System (WT-ANFIS). Applied Sciences (Switzerland), 2019, 9, 3214.	2.5	16
20	Reduction of harmonic using single phase shunt active power filter based on instantaneous power theory for cascaded multilevel inverter. , 2016, , .		12
21	A Review of Parabolic Dish-Stirling Engine System Based on Concentrating Solar Power. Telkomnika (Telecommunication Computing Electronics and Control), 2014, 12, 1142.	0.8	12
22	The impacts of distributed Photovoltaic generation on power distribution networks losses. , 2015, , .		11
23	Closed loop price signal based market operation within Microgrids. European Transactions on Electrical Power, 2011, 21, 1310-1326.	1.0	10
24	Optimum Distributed Generation Allocation Using PSO in order to Reduce Losses and Voltage Improvement. , 2014, , .		10
25	Probabilistic evaluation of the impact of residential photovoltaic system on Malaysia low-voltage network using Monte Carlo approach. Journal of Renewable and Sustainable Energy, 2015, 7, 063110.	2.0	9
26	Assessment of distribution networks performance considering residential photovoltaic systems with demand response applications. Journal of Renewable and Sustainable Energy, 2017, 9, .	2.0	9
27	Probabilistic Impact Assessment of Electric Vehicle Charging on Malaysia Low-Voltage Distribution Networks. Indian Journal of Science and Technology, 2015, 8, 199.	0.7	8
28	Quantifying Variability for Grid-connected Photovoltaics in the Tropics for Microgrid Application. Energy Procedia, 2016, 103, 400-405.	1.8	8
29	Impacts of residential solar photovoltaic systems on voltage unbalance and network losses. , 2017, , .		8
30	Impact of the photovoltaic system variability on transformer tap changer operations in distribution networks. CIRED - Open Access Proceedings Journal, 2017, 2017, 1818-1821.	0.1	8
31	Value of integrating Distributed Energy Resources in the UK electricity system. , 2010, , .		7
32	System performance comparison between crystalline and thin-film technologies under different installation conditions. , 2013, , .		7
33	Modelling and simulation of islanding detection in microgrid. , 2014, , .		7
34	Hourly irradiance forecasting in Malaysia using support vector machine. , 2014, , .		7
35	A Review on the Impacts of Passing-Clouds on Distribution Network Connected with Solar Photovoltaic System. International Review of Electrical Engineering, 2015, 10, 449.	0.2	7
36	Evaluation of alternative distribution network design strategies. , 2009, , .		7

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37	Role of losses in design of DC cable for solar PV applications. , 2014, , .		6
38	Framework of virtual microgrids formation using community energy storage in residential networks with rooftop photovoltaic units. Journal of Energy Storage, 2021, 35, 102250.	8.1	6
39	Methods of lightning protection for the PV power plant. , 2013, , .		5
40	Stirling Engine Technology for Parabolic Dish-Stirling System Based on Concentrating Solar Power (CSP). Applied Mechanics and Materials, 0, 785, 576-580.	0.2	5
41	Design of Battery Storage System for Malaysia Low Voltage Distribution Network with the Presence of Residential Solar Photovoltaic System. Energies, 2020, 13, 4887.	3.1	5
42	Hourly irradiance forecasting for Peninsular Malaysia using dynamic neural network with preprocessed data. , 2013, , .		4
43	Optimum Substation Placement and Feeder Routing Using GA-MST. Applied Mechanics and Materials, 0, 785, 9-13.	0.2	4
44	Generic characteristic of medium voltage reference network for the Malaysian power distribution system. , 2015, , .		4
45	A Review: Optimal Distributed Generation Planning and Power Quality Issues. International Review of Electrical Engineering, 2016, 11, 208.	0.2	4
46	Probabilistic Sizing of Battery Energy Storage System for Solar Photovoltaic Output Smoothing. , 2020, , .		4
47	Virtual Instrument-Based Synchronisation System. , 2006, , .		3
48	Energy and economic evaluation of power systems with heat networks. , 2009, , .		3
49	Hourly Photovoltaics Power Output Prediction for Malaysia Using Support Vector Regression. Applied Mechanics and Materials, 0, 785, 591-595.	0.2	3
50	Optimal Placement and Sizing of Renewable Distributed Generation via Gravitational Search Algorithm. Applied Mechanics and Materials, 0, 785, 556-560.	0.2	3
51	COMTRADE-Based Fault Information System for TNB Substations. , 2005, , .		2
52	Techno-Economic Analysis of Rooftop PV System in UTeM Malaysia. , 2014, , .		2
53	Performance Assessment of Slip Mode Frequency Shift (SMS) Islanding Detection Methods. Applied Mechanics and Materials, 0, 699, 546-551.	0.2	2
54	Integration of PV system into LV distribution networks with Demand Response application. , 2015, , .		2

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55	Temperature Control of the 25kW Parabolic Dish-Stirling Engine System. Telkomnika (Telecommunication Computing Electronics and Control), 2016, 14, 800.	0.8	2
56	The Recovery of Energy from a Hybrid System to Improve the Performance of a Photovoltaic Cell. International Journal of Power Electronics and Drive Systems, 2018, 9, 957.	0.6	2
57	Electricity Consumption of Remote Villages in Sarawak Powered by Off-grid Solar System. , 2020, , .		2
58	Laboratory experiment of compact fluorescent and compact LED lamp for residential area. , 2013, , .		1
59	Reference Network Development Concept for the Malaysian Power Distribution System. Applied Mechanics and Materials, 2015, 785, 532-537.	0.2	1
60	Passing-Cloud Effects of Solar Photovoltaic System on Distribution Network Voltages. Applied Mechanics and Materials, 0, 785, 551-555.	0.2	1
61	ACMV Energy Analysis for Academic Building: A Case Study. IOP Conference Series: Materials Science and Engineering, 2015, 88, 012062.	0.6	1
62	Optimal allocation and sizing of photovoltaic-based distributed generation for voltage dip improvement. , 2016, , .		1
63	Technical losses assessment of reference networks in Malaysia. , 2016, , .		1
64	A Review on the Impact of Distributed Energy Resources Uncertainty on Distribution Networks. International Review of Electrical Engineering, 2016, 11, 420.	0.2	1
65	Techno-Economic Analysis of On-grid Transition: A Case Study of Remote Villages in Sarawak. , 2021, , .		1
66	Teaching of Electromagnetics Theory at Kolej Universiti Teknikal Kebangsaan Malaysia (KUTKM). , 0, , .		0
67	Techno-economic appraisal of alternative distribution network design options. , 2012, , .		0
68	The impact of losses in cable selection for distribution circuit in Malaysia. , 2013, , .		0
69	Voltage and Frequency Control of Microgrid Systems with Demand Response. International Journal of Simulation: Systems, Science and Technology, 0, , .	0.0	0
70	Sensitivity Analysis and Comparison between 25 kW Parabolic Dish System. Telkomnika (Telecommunication Computing Electronics and Control), 2016, 14, 807.	0.8	0
71	Development of Load Control Algorithm for PV Microgrid. International Journal of Electrical and Computer Engineering, 2017, 7, 619.	0.7	0
72	Assessment of Online Weather Platform Data for PV Output Power Forecasting. , 2020, , .		0

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73	Design of Single Axis Solar Tracking System (SASTS) Integrated with Programmable Logic Controller. , 2021, , .		0