

# Jiashen Teh

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2270639/publications.pdf>

Version: 2024-02-01

74  
papers

2,239  
citations

172207

29  
h-index

223531

46  
g-index

75  
all docs

75  
docs citations

75  
times ranked

1111  
citing authors

#	ARTICLE	IF	CITATIONS
1	Network topology optimisation based on dynamic thermal rating and battery storage systems for improved wind penetration and reliability. <i>Applied Energy</i> , 2022, 305, 117837.	5.1	99
2	Impacts of Communication Network Availability on Synchrophasor-Based DTR and SIPS Reliability. <i>IEEE Systems Journal</i> , 2022, 16, 6231-6242.	2.9	19
3	Composite Reliability Impacts of Synchrophasor-Based DTR and SIPS Cyber-Physical Systems. <i>IEEE Systems Journal</i> , 2022, 16, 3927-3938.	2.9	23
4	Reliability Impacts of ICT Failures on Synchrophasor Based Dynamic Thermal Rating System. <i>Lecture Notes in Electrical Engineering</i> , 2022, , 337-343.	0.3	1
5	Determination of Solar Penetration Through Multi-objective Optimisation Framework. <i>Lecture Notes in Electrical Engineering</i> , 2022, , 331-336.	0.3	0
6	Comprehensive review of the dynamic thermal rating system for sustainable electrical power systems. <i>Energy Reports</i> , 2022, 8, 3263-3288.	2.5	66
7	Dynamic Thermal Rating Forecasting Methods: A Systematic Survey. <i>IEEE Access</i> , 2022, 10, 65193-65205.	2.6	7
8	Fuzzy Dynamic Thermal Rating System-Based Thermal Aging Model for Transmission Lines. <i>Energies</i> , 2022, 15, 4395.	1.6	3
9	Active Power Filtering Under Unbalanced and Distorted Grid Conditions Using Modular Fundamental Element Detection Technique. <i>IEEE Access</i> , 2021, 9, 107502-107518.	2.6	2
10	Reliability effects of the dynamic thermal rating system on wind energy integrations. , 2021, , 461-479.		0
11	Optimum allocation of battery energy storage systems for power grid enhanced with solar energy. <i>Energy</i> , 2021, 223, 120105.	4.5	114
12	Fuzzy Dynamic Thermal Rating System-Based SIPS for Enhancing Transmission Line Security. <i>IEEE Access</i> , 2021, 9, 83628-83641.	2.6	24
13	Comparison of Buck-Boost Derived Non-isolated DC-DC Converters in a Photovoltaic System. <i>Lecture Notes in Electrical Engineering</i> , 2021, , 1023-1037.	0.3	0
14	Advances in reduction of total harmonic distortion in solar photovoltaic systems: A literature review. <i>International Journal of Energy Research</i> , 2020, 44, 2455-2470.	2.2	40
15	Surveys on the reliability impacts of power system cyber-physical layers. <i>Sustainable Cities and Society</i> , 2020, 62, 102384.	5.1	58
16	Predictive Adaptive Filter for Reducing Total Harmonics Distortion in PV Systems. <i>Energies</i> , 2020, 13, 3286.	1.6	17
17	Optimum Network Ageing and Battery Sizing for Improved Wind Penetration and Reliability. <i>IEEE Access</i> , 2020, 8, 118603-118611.	2.6	71
18	Probabilistic Peak Demand Matching by Battery Energy Storage Alongside Dynamic Thermal Ratings and Demand Response for Enhanced Network Reliability. <i>IEEE Access</i> , 2020, 8, 181547-181559.	2.6	91

#	ARTICLE	IF	CITATIONS
19	Demand Response and Dynamic Line Ratings for Optimum Power Network Reliability and Ageing. IEEE Access, 2020, 8, 175319-175328.	2.6	34
20	Integration of Wind and Demand Response for Optimum Generation Reliability, Cost and Carbon Emission. IEEE Access, 2020, 8, 183606-183618.	2.6	30
21	Three-Phase Series Resonant DC-DC Boost Converter With Double LLC Resonant Tanks and Variable Frequency Control. IEEE Access, 2020, 8, 22386-22399.	2.6	48
22	Study of a Bidirectional Power Converter Integrated with Battery/Ultracapacitor Dual-Energy Storage. Energies, 2020, 13, 1234.	1.6	8
23	Non-isolated conventional DC-DC converter comparison for a photovoltaic system: A review. Journal of Renewable and Sustainable Energy, 2020, 12, .	0.8	25
24	Reliability Modeling of PV Systems Based on Time-Varying Failure Rates. IEEE Access, 2020, 8, 14367-14376.	2.6	34
25	Impact of the Integration of Information and Communication Technology on Power System Reliability: A Review. IEEE Access, 2020, 8, 24600-24615.	2.6	48
26	Kalman Filter for Reducing Total Harmonics Distortion in Stand-alone PV System. , 2020, , .		2
27	Risk-Based Management of Transmission Lines Enhanced With the Dynamic Thermal Rating System. IEEE Access, 2019, 7, 76562-76572.	2.6	49
28	Reliability impacts of the dynamic thermal rating and battery energy storage systems on wind-integrated power networks. Sustainable Energy, Grids and Networks, 2019, 20, 100268.	2.3	77
29	Upgrading of the Existing Bi-Pole to the New Four-Pole Back-to-Back HVDC Converter for Greater Reliability and Power Quality. IEEE Access, 2019, 7, 145532-145545.	2.6	7
30	Development of a Novel Battery-Powered DC-AC System. , 2019, , .		0
31	A New Solar Radiation Model for a Power System Reliability Study. IEEE Access, 2019, 7, 64758-64766.	2.6	27
32	Reliability Impacts of the Dynamic Thermal Rating System on Smart Grids Considering Wireless Communications. IEEE Access, 2019, 7, 41625-41635.	2.6	64
33	Cell Balancing Topologies in Battery Energy Storage Systems: A Review. Lecture Notes in Electrical Engineering, 2019, , 159-165.	0.3	9
34	Power Quality Improvements in a Novel 24-Pulse Line Commutated Converter HVDC Transmission System. Lecture Notes in Electrical Engineering, 2019, , 221-227.	0.3	1
35	Fuzzy Evaluation of Transmission Line End-of-Life Reliability Model. , 2019, , .		1
36	Multi-Objective Optimization of Solar/Wind Penetration in Power Generation Systems. IEEE Access, 2019, 7, 169094-169106.	2.6	37

#	ARTICLE	IF	CITATIONS
37	State-of-Charge Balancing Control for ON/OFF-Line Internal Cells Using Hybrid Modular Multi-Level Converter and Parallel Modular Dual L-Bridge in a Grid-Scale Battery Energy Storage System. IEEE Access, 2019, 7, 131-147.	2.6	39
38	Reliability and Power Density Increase in a Novel Four-Pole System for Line-Commutated Converter HVDC Transmission. IEEE Access, 2019, 7, 10057-10076.	2.6	6
39	Automated Compilation Test System for Embedded System. Makara Journal of Technology, 2019, 22, 115.	0.4	0
40	Bank Division Topology for Existing Hierarchical Balancing Control in a Grid-Scale Battery Energy Storage System. Lecture Notes in Electrical Engineering, 2019, , 151-157.	0.3	1
41	An Investigation of Reactive-Active Power Control Approach for Grid-Connected PV Arrays in a Low Voltage Distribution System. Lecture Notes in Electrical Engineering, 2019, , 213-219.	0.3	1
42	Prospects of Using the Dynamic Thermal Rating System for Reliable Electrical Networks: A Review. IEEE Access, 2018, 6, 26765-26778.	2.6	87
43	Application of Particle Swarm Optimization to Design Control Strategy Parameters of Parallel Hybrid Electric Vehicle with Fuel Economy and Low Emission. , 2018, , .		2
44	A Systematic Review of Reliability Studies on Composite Power Systems: A Coherent Taxonomy Motivations, Open Challenges, Recommendations, and New Research Directions. Energies, 2018, 11, 2417.	1.6	37
45	A Bidirectional Converter with Hybrid Energy Sources for Light Electric Vehicle (LEV). , 2018, , .		0
46	A Novel Quad 12-pulse Four-Pole System Using an Existing 12-pulse Bi-pole System for Back-to-Back HVDC System. , 2018, , .		2
47	Impact of Demand Side Management and Dynamic Thermal Rating System on the Reliability of Power Systems. , 2018, , .		1
48	Impact of Demand-Side Management on the Reliability of Generation Systems. Energies, 2018, 11, 2155.	1.6	34
49	Evolutionary Computation-Based Memetic Algorithm Against Genetic Algorithm to Improve PCR-RFLP Assay Primers of SNP Genotyping. IEEE Access, 2018, 6, 77807-77815.	2.6	1
50	Adequacy Assessment of Wind Integrated Generating Systems Incorporating Demand Response and Battery Energy Storage System. Energies, 2018, 11, 2649.	1.6	36
51	Development of Energy Storage Systems for Power Network Reliability: A Review. Energies, 2018, 11, 2278.	1.6	112
52	Photovoltaic Integrated Shunt Active Power Filter with Simpler ADALINE Algorithm for Current Harmonic Extraction. Energies, 2018, 11, 1152.	1.6	17
53	Composite Reliability Evaluation of Load Demand Side Management and Dynamic Thermal Rating Systems. Energies, 2018, 11, 466.	1.6	34
54	Uncertainty Analysis of Transmission Line End-of-Life Failure Model for Bulk Electric System Reliability Studies. IEEE Transactions on Reliability, 2018, 67, 1261-1268.	3.5	71

#	ARTICLE	IF	CITATIONS
55	Impacts of Energy Storage System on Power System Reliability: A Systematic Review. <i>Energies</i> , 2018, 11, 1749.	1.6	63
56	A High-Gain Reflex-Based Bidirectional DC Charger with Efficient Energy Recycling for Low-Voltage Battery Charging-Discharging Power Control. <i>Energies</i> , 2018, 11, 623.	1.6	14
57	Improving the Penetration of Wind Power with Dynamic Thermal Rating System, Static VAR Compensator and Multi-Objective Genetic Algorithm. <i>Energies</i> , 2018, 11, 815.	1.6	29
58	Impacts of Demand-Side Management on Electrical Power Systems: A Review. <i>Energies</i> , 2018, 11, 1050.	1.6	141
59	Composite reliability evaluation for transmission network planning. <i>AIMS Energy</i> , 2018, 6, 170-186.	1.1	3
60	Impact of the Real-Time Thermal Loading on the Bulk Electric System Reliability. <i>IEEE Transactions on Reliability</i> , 2017, 66, 1110-1119.	3.5	90
61	Maximization of wind energy utilization through a multi-objective optimization framework. , 2017, , .		1
62	Impact of DTR system on the transmission line reliability model. , 2017, , .		1
63	A reflex-charging based bidirectional DC charger for light electric vehicle and DC-microgrids. , 2017, , .		9
64	Memetic algorithm for fuel economy and low emissions parallel hybrid electric vehicles. , 2017, , .		12
65	A framework for transmission network planning. , 2017, , .		0
66	An efficient active ripple filter for use in single-phase DC-AC conversion system. , 2017, , .		3
67	A New Combined Boost Converter with Improved Voltage Gain as a Battery-Powered Front-End Interface for Automotive Audio Amplifiers. <i>Energies</i> , 2017, 10, 1128.	1.6	9
68	Optimization of Control Strategy for Hybrid Electric Vehicles Based on Improved Genetic Algorithm. , 2017, , .		5
69	Sustaining Learning in Engineering Capstone Design using Sociomaterial Approaches. , 2017, , .		0
70	Genetic algorithm with small population size for search feasible control parameters for parallel hybrid electric vehicles. <i>AIMS Energy</i> , 2017, 5, 930-943.	1.1	16
71	Reliability Impact of Dynamic Thermal Rating System in Wind Power Integrated Network. <i>IEEE Transactions on Reliability</i> , 2016, 65, 1081-1089.	3.5	122
72	Risk informed design modification of dynamic thermal rating system. <i>IET Generation, Transmission and Distribution</i> , 2015, 9, 2697-2704.	1.4	41

#	ARTICLE	IF	CITATIONS
73	Critical span identification model for dynamic thermal rating system placement. IET Generation, Transmission and Distribution, 2015, 9, 2644-2652.	1.4	63
74	Risk assessment of dynamic thermal rating system. , 2015, , .		0