

Tapan Kumar Saha

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7546002/publications.pdf>

Version: 2024-02-01

449
papers

13,718
citations

34105

52
h-index

31849

101
g-index

459
all docs

459
docs citations

459
times ranked

7734
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of modern diagnostic techniques for assessing insulation condition in aged transformers. IEEE Transactions on Dielectrics and Electrical Insulation, 2003, 10, 903-917.	2.9	593
2	Using peer-to-peer energy-trading platforms to incentivize prosumers to form federated power plants. Nature Energy, 2018, 3, 94-101.	39.5	540
3	Peer-to-Peer Trading in Electricity Networks: An Overview. IEEE Transactions on Smart Grid, 2020, 11, 3185-3200.	9.0	464
4	Bilateral Contract Networks for Peer-to-Peer Energy Trading. IEEE Transactions on Smart Grid, 2019, 10, 2026-2035.	9.0	363
5	Multiclass Energy Management for Peer-to-Peer Energy Trading Driven by Prosumer Preferences. IEEE Transactions on Power Systems, 2019, 34, 4005-4014.	6.5	321
6	Transforming Energy Networks via Peer-to-Peer Energy Trading: The Potential of Game-Theoretic Approaches. IEEE Signal Processing Magazine, 2018, 35, 90-111.	5.6	310
7	Control Strategies for Microgrids With Distributed Energy Storage Systems: An Overview. IEEE Transactions on Smart Grid, 2018, 9, 3652-3666.	9.0	307
8	Investigation of polarization and depolarization current measurements for the assessment of oil-paper insulation of aged transformers. IEEE Transactions on Dielectrics and Electrical Insulation, 2004, 11, 144-154.	2.9	268
9	Peer-to-peer energy systems for connected communities: A review of recent advances and emerging challenges. Applied Energy, 2021, 282, 116131.	10.1	265
10	Impact of electric vehicle fast charging on power system voltage stability. International Journal of Electrical Power and Energy Systems, 2014, 57, 241-249.	5.5	262
11	A motivational game-theoretic approach for peer-to-peer energy trading in the smart grid. Applied Energy, 2019, 243, 10-20.	10.1	255
12	Deriving an Equivalent Circuit of Transformers Insulation for Understanding the Dielectric Response Measurements. IEEE Transactions on Power Delivery, 2005, 20, 149-157.	4.3	220
13	Grid Influenced Peer-to-Peer Energy Trading. IEEE Transactions on Smart Grid, 2020, 11, 1407-1418.	9.0	191
14	The Anatomy of the 2016 South Australia Blackout: A Catastrophic Event in a High Renewable Network. IEEE Transactions on Power Systems, 2018, 33, 5374-5388.	6.5	190
15	Investigation of Voltage Stability for Residential Customers Due to High Photovoltaic Penetrations. IEEE Transactions on Power Systems, 2012, 27, 651-662.	6.5	188
16	Investigations of Temperature Effects on the Dielectric Response Measurements of Transformer Oil-Paper Insulation System. IEEE Transactions on Power Delivery, 2008, 23, 252-260.	4.3	176
17	Incentivizing Prosumer Coalitions With Energy Management Using Cooperative Game Theory. IEEE Transactions on Power Systems, 2019, 34, 303-313.	6.5	167
18	Peer-to-Peer Energy Trading With Sustainable User Participation: A Game Theoretic Approach. IEEE Access, 2018, 6, 62932-62943.	4.2	154

#	ARTICLE	IF	CITATIONS
19	Understanding the impacts of moisture and thermal ageing on transformer's insulation by dielectric response and molecular weight measurements. IEEE Transactions on Dielectrics and Electrical Insulation, 2008, 15, 568-582.	2.9	149
20	Real-Time Coordinated Voltage Control of PV Inverters and Energy Storage for Weak Networks With High PV Penetration. IEEE Transactions on Power Systems, 2018, 33, 3383-3395.	6.5	149
21	The combined effects of high penetration of wind and PV on power system frequency response. Applied Energy, 2015, 145, 320-330.	10.1	146
22	Designing Decentralized Markets for Distribution System Flexibility. IEEE Transactions on Power Systems, 2019, 34, 2128-2139.	6.5	137
23	Application of fuzzy support vector machine for determining the health index of the insulation system of in-service power transformers. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 965-973.	2.9	126
24	Minimum Synchronous Inertia Requirement of Renewable Power Systems. IEEE Transactions on Power Systems, 2018, 33, 1533-1543.	6.5	125
25	Pattern recognition techniques and their applications for automatic classification of artificial partial discharge sources. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 468-478.	2.9	122
26	Model Predictive Control for Distributed Microgrid Battery Energy Storage Systems. IEEE Transactions on Control Systems Technology, 2018, 26, 1107-1114.	5.2	114
27	Investigation of an Expert System for the Condition Assessment of Transformer Insulation Based on Dielectric Response Measurements. IEEE Transactions on Power Delivery, 2004, 19, 1127-1134.	4.3	112
28	Integrating P2P Energy Trading With Probabilistic Distribution Locational Marginal Pricing. IEEE Transactions on Smart Grid, 2020, 11, 3095-3106.	9.0	107
29	A bottom-up approach for demand response aggregators's participation in electricity markets. Electric Power Systems Research, 2017, 143, 121-129.	3.6	105
30	Internet of Things for Green Building Management: Disruptive Innovations Through Low-Cost Sensor Technology and Artificial Intelligence. IEEE Signal Processing Magazine, 2018, 35, 100-110.	5.6	105
31	A coalition formation game framework for peer-to-peer energy trading. Applied Energy, 2020, 261, 114436.	10.1	104
32	Voltage Variation Sensitivity Analysis for Unbalanced Distribution Networks Due to Photovoltaic Power Fluctuations. IEEE Transactions on Power Systems, 2012, 27, 1078-1089.	6.5	92
33	Power system blackouts - literature review. , 2009, , .		84
34	An Updated Model to Determine the Life Remaining of Transformer Insulation. IEEE Transactions on Power Delivery, 2015, 30, 395-402.	4.3	82
35	Understanding the ageing aspects of natural ester based insulation liquid in power transformer. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 246-257.	2.9	82
36	Evaluation of technical and financial benefits of battery-based energy storage systems in distribution networks. IET Renewable Power Generation, 2016, 10, 1149-1160.	3.1	80

#	ARTICLE	IF	CITATIONS
37	Review of time-domain polarization measurements for assessing insulation condition in aged transformers. IEEE Transactions on Power Delivery, 2003, 18, 1293-1301.	4.3	77
38	Impacts of residential photovoltaic power fluctuation on on-load tap changer operation and a solution using DSTATCOM. Electric Power Systems Research, 2014, 111, 185-193.	3.6	76
39	A study of degradation of cellulosic insulation materials in a power transformer, part 1. Molecular weight study of cellulose insulation paper. Polymer Degradation and Stability, 1995, 48, 79-87.	5.8	75
40	Experience with return voltage measurements for assessing insulation conditions in service-aged transformers. IEEE Transactions on Power Delivery, 2003, 18, 128-135.	4.3	75
41	A power system nonlinear adaptive decentralized controller design. Automatica, 2010, 46, 330-336.	5.0	75
42	Harmonic impact of high penetration photovoltaic system on unbalanced distribution networks – learning from an urban photovoltaic network. IET Renewable Power Generation, 2016, 10, 485-494.	3.1	73
43	Control Strategies for Augmenting LVRT Capability of DFIGs in Interconnected Power Systems. IEEE Transactions on Industrial Electronics, 2013, 60, 2510-2522.	7.9	71
44	Smart Transformer for Smart Grid – Intelligent Framework and Techniques for Power Transformer Asset Management. IEEE Transactions on Smart Grid, 2015, 6, 1026-1034.	9.0	69
45	Estimating State of Charge for xEV Batteries Using 1D Convolutional Neural Networks and Transfer Learning. IEEE Transactions on Vehicular Technology, 2021, 70, 3123-3135.	6.3	68
46	Investigating the effects of oxidation and thermal degradation on electrical and chemical properties of power transformers insulation. IEEE Transactions on Power Delivery, 1999, 14, 1359-1367.	4.3	67
47	Overview of the impacts of plug-in electric vehicles on the power grid. , 2011, , .		65
48	A study of degradation of cellulosic insulation materials in a power transformer. Part 2: tensile strength of cellulose insulation paper. Polymer Degradation and Stability, 1995, 49, 429-435.	5.8	64
49	Real-Time Coordinated Voltage Support With Battery Energy Storage in a Distribution Grid Equipped With Medium-Scale PV Generation. IEEE Transactions on Smart Grid, 2019, 10, 3486-3497.	9.0	62
50	Investigating the impact of P2P trading on power losses in grid-connected networks with prosumers. Applied Energy, 2020, 263, 114687.	10.1	61
51	Modelling demand response aggregator behavior in wind power offering strategies. Applied Energy, 2014, 133, 347-355.	10.1	59
52	An uncertainty-aware deep reinforcement learning framework for residential air conditioning energy management. Applied Energy, 2020, 276, 115426.	10.1	59
53	A study of the degradation of cellulosic insulation materials in a power transformer. Part III: Degradation products of cellulose insulation paper. Polymer Degradation and Stability, 1996, 51, 211-218.	5.8	58
54	Investigations into effective methods for assessing the condition of insulation in aged power transformers. IEEE Transactions on Power Delivery, 1998, 13, 1214-1223.	4.3	58

#	ARTICLE	IF	CITATIONS
55	Coalition Graph Game-Based P2P Energy Trading With Local Voltage Management. IEEE Transactions on Smart Grid, 2021, 12, 4389-4402.	9.0	55
56	Voltage Management for Large Scale PV Integration into Weak Distribution Systems. IEEE Transactions on Smart Grid, 2018, 9, 4128-4139.	9.0	53
57	Voltage regulation challenges with unbalanced PV integration in low voltage distribution systems and the corresponding solution. Applied Energy, 2019, 256, 113927.	10.1	53
58	Financial and environmental analysis of rooftop photovoltaic installations with battery storage in Australia. Applied Energy, 2015, 159, 252-264.	10.1	52
59	Post-retirement utilisation of synchronous generators to enhance security performances in a wind dominated power system. IET Generation, Transmission and Distribution, 2016, 10, 3314-3321.	2.5	52
60	Moisture-Dependent Thermal Modelling of Power Transformer. IEEE Transactions on Power Delivery, 2016, 31, 2140-2150.	4.3	51
61	A review of the techniques used by utilities to measure the water content of transformer insulation paper. IEEE Electrical Insulation Magazine, 2017, 33, 8-16.	0.8	50
62	Electrical and chemical diagnostics of transformers insulation. A. Aged transformer samples. IEEE Transactions on Power Delivery, 1997, 12, 1547-1554.	4.3	49
63	A new tool to estimate maximum wind power penetration level: In perspective of frequency response adequacy. Applied Energy, 2015, 154, 209-220.	10.1	49
64	A Joint Vibration and Arcing Measurement System for Online Condition Monitoring of Onload Tap Changer of the Power Transformer. IEEE Transactions on Power Delivery, 2017, 32, 1031-1038.	4.3	49
65	Investigation of Voltage Imbalance Due to Distribution Network Unbalanced Line Configurations and Load Levels. IEEE Transactions on Power Systems, 2013, 28, 1829-1838.	6.5	48
66	Wind Power Offering Strategy in Day-Ahead Markets: Employing Demand Response in a Two-Stage Plan. IEEE Transactions on Power Systems, 2015, 30, 1888-1896.	6.5	48
67	Robust control strategy for PV system integration in distribution systems. Applied Energy, 2012, 99, 355-362.	10.1	47
68	Analysis of yearlong performance of differently tilted photovoltaic systems in Brisbane, Australia. Energy Conversion and Management, 2013, 74, 102-108.	9.2	47
69	Time-frequency sparsity map on automatic partial discharge sources separation for power transformer condition assessment. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 2271-2283.	2.9	47
70	Probabilistic wavelet transform for partial discharge measurement of transformer. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 1105-1117.	2.9	46
71	Understanding the impact of moisture and ageing of transformer insulation on frequency domain spectroscopy. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 369-379.	2.9	45
72	Frequency response estimation method for high wind penetration considering wind turbine frequency support functions. IET Renewable Power Generation, 2015, 9, 775-782.	3.1	45

#	ARTICLE	IF	CITATIONS
73	PV module degradation analysis and impact on settings of overcurrent protection devices. Solar Energy, 2018, 160, 360-367.	6.1	45
74	Modeling and planning of EV fast charging station in power grid. , 2012, , .		44
75	Understanding the impact of moisture and ageing of transformer insulation on frequency domain spectroscopy. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 369-379.	2.9	44
76	Investigation of the interaction between step voltage regulators and large-scale photovoltaic systems regarding voltage regulation and unbalance. IET Renewable Power Generation, 2016, 10, 299-309.	3.1	44
77	A Distributed Inter-Phase Coordination Algorithm for Voltage Control With Unbalanced PV Integration in LV Systems. IEEE Transactions on Sustainable Energy, 2020, 11, 2687-2697.	8.8	44
78	Feasibility Study of Financial P2P Energy Trading in a Grid-tied Power Network. , 2019, , .		43
79	Determination of power system coherent bus groups by novel sensitivity-based method for voltage stability assessment. IEEE Transactions on Power Systems, 2003, 18, 1157-1164.	6.5	42
80	A new dielectric response model for water tree degraded XLPE insulation - part a: model development with small sample verification. IEEE Transactions on Dielectrics and Electrical Insulation, 2008, 15, 1131-1143.	2.9	42
81	Statistical learning techniques and their applications for condition assessment of power transformer. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 481-489.	2.9	42
82	A Time-Dependent Approach to Evaluate Capacity Value of Wind and Solar PV Generation. IEEE Transactions on Sustainable Energy, 2016, 7, 129-138.	8.8	42
83	Takagi's Sugeno fuzzy model-based approach considering multiple weather factors for the photovoltaic power short-term forecasting. IET Renewable Power Generation, 2017, 11, 1281-1287.	3.1	42
84	Scalable Energy Management for Low Voltage Microgrids Using Multi-Agent Storage System Aggregation. IEEE Transactions on Power Systems, 2018, 33, 1614-1623.	6.5	42
85	Frequency response analysis to investigate deformation of transformer winding. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 2359-2367.	2.9	41
86	VAR Planning With Tuning of STATCOM in a DG Integrated Industrial System. IEEE Transactions on Power Delivery, 2013, 28, 875-885.	4.3	40
87	Self-adaptive partial discharge signal de-noising based on ensemble empirical mode decomposition and automatic morphological thresholding. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 294-303.	2.9	40
88	Improvement of power transformer insulation diagnosis using oil characteristics data preprocessed by SMOTEBoost technique. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 2363-2373.	2.9	39
89	Self-adaptive partial discharge signal de-noising based on ensemble empirical mode decomposition and automatic morphological thresholding. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 294-303.	2.9	39
90	Determining water in transformer paper insulation: analyzing aging transformers. IEEE Electrical Insulation Magazine, 2015, 31, 23-32.	0.8	39

#	ARTICLE	IF	CITATIONS
91	A comprehensive planning framework for electric vehicle charging infrastructure deployment in the power grid with enhanced voltage stability. <i>International Transactions on Electrical Energy Systems</i> , 2015, 25, 1022-1040.	1.9	39
92	Power transformer fault diagnosis under measurement originated uncertainties. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2012, 19, 1982-1990.	2.9	38
93	Market power implication on congested power system: A case study of financial withheld strategy. <i>International Journal of Electrical Power and Energy Systems</i> , 2013, 47, 408-415.	5.5	38
94	An approach for fault detection and location in solar PV systems. <i>Solar Energy</i> , 2019, 194, 197-208.	6.1	38
95	Data-Driven Photovoltaic Generation Forecasting Based on a Bayesian Network With Spatial–Temporal Correlation Analysis. <i>IEEE Transactions on Industrial Informatics</i> , 2020, 16, 1635-1644.	11.3	38
96	Survey of Australian power transformer failures and retirements. <i>IEEE Electrical Insulation Magazine</i> , 2017, 33, 16-22.	0.8	37
97	A Novel Approach in Filter Design for Grid-Connected Inverters Used in Renewable Energy Systems. <i>IEEE Transactions on Sustainable Energy</i> , 2020, 11, 154-164.	8.8	37
98	Assessment and Enhancement of Small Signal Stability of a Renewable-Energy-Based Electricity Distribution System. <i>IEEE Transactions on Sustainable Energy</i> , 2012, 3, 407-415.	8.8	36
99	Performance of Natural Ester as a Transformer Oil in Moisture-Rich Environments. <i>Energies</i> , 2016, 9, 258.	3.1	36
100	Employing demand response in energy procurement plans of electricity retailers. <i>International Journal of Electrical Power and Energy Systems</i> , 2014, 63, 455-460.	5.5	35
101	Challenges and prospects for negawatt trading in light of recent technological developments. <i>Nature Energy</i> , 2020, 5, 834-841.	39.5	35
102	Electrical and chemical diagnostics of transformers insulation. B. Accelerated aged insulation samples. <i>IEEE Transactions on Power Delivery</i> , 1997, 12, 1555-1561.	4.3	34
103	Development of a new loss allocation method for a hybrid electricity market using graph theory. <i>Electric Power Systems Research</i> , 2009, 79, 301-310.	3.6	34
104	An Inductively Active Filtering Method for Power-Quality Improvement of Distribution Networks With Nonlinear Loads. <i>IEEE Transactions on Power Delivery</i> , 2013, 28, 2465-2473.	4.3	34
105	Benefit-based expansion cost allocation for large scale remote renewable power integration into the Australian grid. <i>Applied Energy</i> , 2014, 113, 836-847.	10.1	34
106	On Savitzky–Golay Filtering for Online Condition Monitoring of Transformer On-Load Tap Changer. <i>IEEE Transactions on Power Delivery</i> , 2018, 33, 1689-1698.	4.3	34
107	Investigation of feature selection techniques for improving efficiency of power transformer condition assessment. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2014, 21, 836-844.	2.9	33
108	Examining the ageing of transformer insulation using FRA and FDS techniques. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015, 22, 1258-1265.	2.9	33

#	ARTICLE	IF	CITATIONS
109	A stochastic integrated planning of electricity and natural gas networks for Queensland, Australia considering high renewable penetration. <i>Energy</i> , 2018, 153, 539-553.	8.8	33
110	Cooperative megawatt P2P energy trading for low-voltage distribution networks. <i>Applied Energy</i> , 2021, 299, 117300.	10.1	32
111	A new demand response scheme for electricity retailers. <i>Electric Power Systems Research</i> , 2014, 108, 144-152.	3.6	31
112	Distributed Control With Virtual Capacitance for the Voltage Restorations, State of Charge Balancing, and Load Allocations of Heterogeneous Energy Storages in a DC Datacenter Microgrid. <i>IEEE Transactions on Energy Conversion</i> , 2019, 34, 1296-1308.	5.2	31
113	Determining water in transformer paper insulation: effect of measuring oil water activity at two different locations. <i>IEEE Electrical Insulation Magazine</i> , 2015, 31, 18-25.	0.8	30
114	Improving Predictability of Renewable Generation Through Optimal Battery Sizing. <i>IEEE Transactions on Sustainable Energy</i> , 2020, 11, 37-47.	8.8	29
115	System Strength and Weak Grids: Fundamentals, Challenges, and Mitigation Strategies. , 2018, , .		28
116	Operational Modal Analysis of Transformer Windings. <i>IEEE Transactions on Power Delivery</i> , 2020, 35, 1285-1298.	4.3	28
117	Optimal Time Selection for the Polarisation and Depolarisation Current Measurement for Power Transformer Insulation Diagnosis. <i>IEEE Power Engineering Society General Meeting</i> , 2007, , .	0.0	27
118	Modelling the dielectric response measurements of transformer oil. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015, 22, 1283-1291.	2.9	27
119	Megawatt-scale solar variability study: an experience from a 1.2MWp photovoltaic system in Australia over three years. <i>IET Renewable Power Generation</i> , 2016, 10, 1229-1236.	3.1	27
120	Master self-tuning VDCOL function for hybrid multi-terminal HVDC connecting renewable resources to a large power system. <i>IET Generation, Transmission and Distribution</i> , 2017, 11, 3341-3349.	2.5	27
121	Motivational Psychology Driven AC Management Scheme: A Responsive Design Approach. <i>IEEE Transactions on Computational Social Systems</i> , 2018, 5, 289-301.	4.4	27
122	System Strength and Inertia Constrained Optimal Generator Dispatch Under High Renewable Penetration. <i>IEEE Transactions on Sustainable Energy</i> , 2020, 11, 2392-2406.	8.8	27
123	Classification and Visualization of Power Quality Disturbance-Events Using Space Vector Ellipse in Complex Plane. <i>IEEE Transactions on Power Delivery</i> , 2021, 36, 1380-1389.	4.3	27
124	Harmonic emissions in grid connected PV systems: A case study on a large scale rooftop PV site. , 2014, , .		26
125	Demand Response Application by Strategic Wind Power Producers. <i>IEEE Transactions on Power Systems</i> , 2016, 31, 1227-1237.	6.5	26
126	On Particle Filtering for Power Transformer Remaining Useful Life Estimation. <i>IEEE Transactions on Power Delivery</i> , 2018, 33, 2643-2653.	4.3	26

#	ARTICLE	IF	CITATIONS
127	Regulation of distribution network voltage using dispersed battery storage systems: A case study of a rural network. , 2011, , .		25
128	Harmonic characterization of grid connected PV systems & validation with field measurements. , 2015, , .		25
129	Fundamental concepts of using water activity probes to assess transformer insulation water content. IEEE Electrical Insulation Magazine, 2016, 32, 9-16.	0.8	25
130	Bayesian information fusion for probabilistic health index of power transformer. IET Generation, Transmission and Distribution, 2018, 12, 279-287.	2.5	25
131	Investigation Into Modeling Australian Power Transformer Failure and Retirement Statistics. IEEE Transactions on Power Delivery, 2018, 33, 2011-2019.	4.3	25
132	Optimal Allocation of Synchronous Condensers in Wind Dominated Power Grids. IEEE Access, 2020, 8, 45400-45410.	4.2	25
133	A framework for participation of prosumers in peer-to-peer energy trading and flexibility markets. Applied Energy, 2022, 314, 118907.	10.1	25
134	Hybrid multi-terminal LCC HVDC with a VSC Converter: A case study of Simplified South East Australian system. , 2012, , .		24
135	An Index for STATCOM Placement to Facilitate Grid Integration of DER. IEEE Transactions on Sustainable Energy, 2013, 4, 451-460.	8.8	24
136	Cycle-life degradation assessment of Battery Energy Storage Systems caused by solar PV variability. , 2016, , .		24
137	Condition monitoring of vegetable oil insulation in in-service power transformers: some data spanning 10 years. IEEE Electrical Insulation Magazine, 2017, 33, 44-51.	0.8	24
138	Modeling and Analysis of Open-Delta Step Voltage Regulators for Unbalanced Distribution Network With Photovoltaic Power Generation. IEEE Transactions on Smart Grid, 2018, 9, 2224-2234.	9.0	24
139	A new dielectric response model for water tree degraded XLPE insulation - part b: dielectric response interpretation. IEEE Transactions on Dielectrics and Electrical Insulation, 2008, 15, 1144-1152.	2.9	23
140	Investigation of small signal stability of a renewable energy based electricity distribution system. , 2010, , .		23
141	Transmission expansion planning by meta-heuristic techniques: A comparison of Shuffled Frog Leaping Algorithm, PSO and GA. , 2011, , .		23
142	Understanding Moisture Dynamics and Its Effect on the Dielectric Response of Transformer Insulation. IEEE Transactions on Power Delivery, 2015, 30, 2195-2204.	4.3	23
143	Investigation of Distributed Moisture and Temperature Measurements in Transformers Using Fiber Optics Sensors. IEEE Transactions on Power Delivery, 2019, 34, 1776-1784.	4.3	23
144	Effects of moisture and temperature on the frequency domain spectroscopy analysis of power transformer insulation. , 2008, , .		22

#	ARTICLE	IF	CITATIONS
145	Customer-driven demand response model for facilitating rooftop PV and wind power integration. IET Renewable Power Generation, 2017, 11, 1200-1210.	3.1	22
146	Power System Transient Stability Enhancement with an Adaptive Control Scheme Using Backstepping Design. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	21
147	Automatic Blind Equalization and Thresholding for Partial Discharge Measurement in Power Transformer. IEEE Transactions on Power Delivery, 2014, 29, 1927-1938.	4.3	21
148	A New Remote Tap Position Estimation Approach for Open-Delta Step-Voltage Regulator in a Photovoltaic Integrated Distribution Network. IEEE Transactions on Power Systems, 2018, 33, 4433-4443.	6.5	21
149	A data-driven approach to estimate battery cell temperature using a nonlinear autoregressive exogenous neural network model. Journal of Energy Storage, 2020, 32, 101879.	8.1	21
150	Understanding frequency & time domain polarisation methods for the insulation condition assessment of power transformers. , 2009, , .		20
151	Hybrid method on signal de-noising and representation for online partial discharge monitoring of power transformers at substations. IET Science, Measurement and Technology, 2015, 9, 890-899.	1.6	20
152	Multi-stage co-planning framework for electricity and natural gas under high renewable energy penetration. IET Generation, Transmission and Distribution, 2018, 12, 4284-4291.	2.5	20
153	Constructing Prosumer Coalitions for Energy Cost Savings Using Cooperative Game Theory. , 2018, , .		20
154	Investigation of diagnostic techniques for metal oxide surge arresters. IEEE Transactions on Dielectrics and Electrical Insulation, 2005, 12, 50-59.	2.9	19
155	Review of transmission schemes and case studies for renewable power integration into the remote grid. Renewable and Sustainable Energy Reviews, 2013, 18, 568-582.	16.4	19
156	Aging rate of grade 3 presspaper insulation used in power transformers. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 2355-2362.	2.9	19
157	Compare the performance of natural ester with synthetic ester as transformer insulating oil. , 2015, , .		19
158	Capacity and Control Strategy Design of Isolated Micro-Grid With High Renewable Penetration. IEEE Transactions on Sustainable Energy, 2020, 11, 1173-1184.	8.8	19
159	A technique for fault detection, identification and location in solar photovoltaic systems. Solar Energy, 2020, 206, 864-874.	6.1	19
160	Low inertia power systems: Frequency response challenges and a possible solution. , 2016, , .		18
161	Measurements on pressboard to understand the effect of solid insulation condition on monitoring of power transformer winding clamping pressure. IET Science, Measurement and Technology, 2019, 13, 186-192.	1.6	18
162	Scaling Up Cooperative Game Theory-Based Energy Management Using Prosumer Clustering. IEEE Transactions on Smart Grid, 2021, 12, 289-300.	9.0	18

#	ARTICLE	IF	CITATIONS
163	Online Rolling Evolutionary Decoder-Dispatch Framework for the Secondary Frequency Regulation of Time-Varying Electrical-Grid-Electric-Vehicle System. IEEE Transactions on Smart Grid, 2021, 12, 871-884.	9.0	18
164	Capturing Spatio-Temporal Dependencies in the Probabilistic Forecasting of Distribution Locational Marginal Prices. IEEE Transactions on Smart Grid, 2021, 12, 2663-2674.	9.0	18
165	Investigating the impact of powerformer on voltage stability by dynamic simulation. IEEE Transactions on Power Systems, 2003, 18, 1142-1148.	6.5	17
166	Zonal Inertia Constrained Generator Dispatch Considering Load Frequency Relief. IEEE Transactions on Power Systems, 2020, 35, 3065-3077.	6.5	17
167	Exploiting design thinking to improve energy efficiency of buildings. Energy, 2020, 197, 117141.	8.8	17
168	Advanced Online Moisture Measurements in Transformer Insulation Using Optical Sensors. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 1803-1810.	2.9	17
169	Analysis and modeling of dielectric responses of power transformer insulation. , 0, , .		16
170	Application of polarization based measurement techniques for diagnosis of field transformers. , 2010, , .		16
171	Power quality enhancement in unbalanced distribution network using Solar-DSTATCOM. , 2013, , .		16
172	Multi-Physics modelling approach for investigation of moisture dynamics in power transformers. IET Generation, Transmission and Distribution, 2016, 10, 1993-2001.	2.5	16
173	Influence of moisture dependency of pressboard on transformer winding clamping pressure. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 3191-3200.	2.9	16
174	Dynamic voltage stability of distribution system with a high penetration of rooftop PV units. , 2015, , .		15
175	IIoT-Enabled Health Monitoring for Integrated Heat Pump System Using Mixture Slow Feature Analysis. IEEE Transactions on Industrial Informatics, 2022, 18, 4725-4736.	11.3	15
176	Risk-Based Contingency-Constrained Optimal Power Flow With Adjustable Uncertainty Set of Wind Power. IEEE Transactions on Industrial Informatics, 2022, 18, 996-1008.	11.3	15
177	Coordination of resources at the edge of the electricity grid: Systematic review and taxonomy. Applied Energy, 2022, 318, 119188.	10.1	15
178	Impact of widespread penetrations of renewable generation on distribution system stability. , 2010, , .		14
179	Fast and adaptive under Frequency Load Shedding and restoration technique using rate of change of frequency to prevent blackouts. , 2010, , .		14
180	Planning of electric vehicle charging infrastructure. , 2013, , .		14

#	ARTICLE	IF	CITATIONS
181	Measuring the Pressboard Water Content of Transformers Using Cellulose Isotherms and the Frequency Components of Water Migration. IEEE Transactions on Power Delivery, 2017, 32, 1314-1320.	4.3	14
182	Variability study of a utility-scale PV plant in the fringe of grid, Australia. , 2017, , .		14
183	Multiscale design for system-wide peer-to-peer energy trading. One Earth, 2021, 4, 629-638.	6.8	14
184	Influence of the geometrical parameters of power transformer insulation on the frequency domain spectroscopy measurement. , 2008, , .		13
185	Maximizing power system loadability by optimal allocation of svc using mixed integer linear programming. , 2010, , .		13
186	Developing a scenario-based demand response for short-term decisions of electricity retailers. , 2013, , .		13
187	Investigations Into the Stray Gassing of Oils in the Fault Diagnosis of Transformers. IEEE Transactions on Power Delivery, 2014, 29, 2369-2374.	4.3	13
188	Impact of PV penetration level on the capacity value of South Australian wind farms. Renewable Energy, 2016, 85, 1135-1142.	8.9	13
189	Investigations of silver sulfide formation on transformer OLTC tap selectors and its influence on oil properties. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 1926-1934.	2.9	13
190	Estimation of the Shapley Value of a Peer-to-peer Energy Sharing Game Using Multi-Step Coalitional Stratified Sampling. International Journal of Control, Automation and Systems, 2021, 19, 1863-1872.	2.7	13
191	Photovoltaic Nowcasting With Bi-Level Spatio-Temporal Analysis Incorporating Sky Images. IEEE Transactions on Sustainable Energy, 2021, 12, 1766-1776.	8.8	13
192	Transactive energy for low voltage residential networks: A review. Applied Energy, 2022, 323, 119556.	10.1	13
193	Modeling metal oxide surge arrester for the modern polarization based diagnostics. IEEE Transactions on Dielectrics and Electrical Insulation, 2005, , 1249-1258.	2.9	12
194	Locating voltage collapse points using evolutionary computation techniques. , 2007, , .		12
195	A comprehensive tool for congestion-based nodal price modelling. , 2009, , .		12
196	Utilizing demand response programs in day ahead generation scheduling for micro-grids with renewable sources. , 2011, , .		12
197	Multivariate analysis for correlations among different transformer oil parameters to determine transformer health index. , 2012, , .		12
198	Damping performance of the large scale Queensland transmission network with significant wind penetration. Applied Energy, 2013, 111, 225-233.	10.1	12

#	ARTICLE	IF	CITATIONS
199	Comparative study for understanding the behaviour of natural ester with mineral oil as a transformer insulating liquid. , 2014, , .		12
200	Analysis of frequency domain dielectric response of pressboard insulation impregnated with different insulating liquids. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 2042-2050.	2.9	12
201	Roles of retailers in the peer-to-peer electricity market: A single retailer perspective. IScience, 2021, 24, 103278.	4.1	12
202	Thermal Analysis of Natural Cooling Type Distribution Transformer Retrofilled With Natural Ester Oil. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, 29, 231-239.	2.9	12
203	Privacy-Preserving Probabilistic Voltage Forecasting in Local Energy Communities. IEEE Transactions on Smart Grid, 2023, 14, 798-809.	9.0	12
204	Nonlinear robust adaptive SVC controller design for power systems. , 2008, , .		11
205	A Price-Based Approach to Generation Investment Planning in Electricity Markets. IEEE Transactions on Power Systems, 2008, 23, 1859-1870.	6.5	11
206	A comparative study of voltage stability for long distance HVAC and HVDC interconnections. , 2010, , .		11
207	Power ramp rate control for grid connected photovoltaic system. , 2010, , .		11
208	Effect of wind farms with doubly fed induction generators on small-signal stability — A case study on Australian equivalent system. , 2011, , .		11
209	Investigation of voltage variations in unbalanced distribution systems due to high photovoltaic penetrations. , 2011, , .		11
210	Fault current contribution from photovoltaic systems in residential power networks. , 2013, , .		11
211	A new trading framework for demand response aggregators. , 2014, , .		11
212	The impact of smart grid technology on dielectrics and electrical insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 3505-3512.	2.9	11
213	Input/output selection for wideâ€œarea power oscillation damper of hybrid multiâ€œterminal highâ€œvoltage direct current to connect remotely located renewable energy resources. IET Generation, Transmission and Distribution, 2015, 9, 483-493.	2.5	11
214	Pattern recognition techniques for power transformer insulation diagnosis-a comparative study part 1: framework, literature, and illustration. International Transactions on Electrical Energy Systems, 2015, 25, 2247-2259.	1.9	11
215	Current limiting impedance comparison between different designs of iron cores of the fluxâ€œlockâ€œtype superconducting fault current limiter. IET Generation, Transmission and Distribution, 2016, 10, 548-554.	2.5	11
216	A multiâ€œstage transition toward high renewable energy penetration in Queensland, Australia. IET Generation, Transmission and Distribution, 2018, 12, 850-858.	2.5	11

#	ARTICLE	IF	CITATIONS
217	An Excessive Tap Operation Evaluation Approach for Unbalanced Distribution Networks With High PV Penetration. IEEE Transactions on Sustainable Energy, 2021, 12, 169-178.	8.8	11
218	Coordinated electric vehicle charging to reduce losses without network impedances. IET Smart Grid, 2020, 3, 677-685.	2.2	11
219	Regulated P2P Energy Trading: A Typical Australian Distribution Network Case Study. , 2020, , .		11
220	A Probabilistic Load Flow Method Considering Transmission Network Contingency. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	10
221	Distributed generators placement for loadability enhancement based on reactive power margin. , 2010, , .		10
222	Analysis of unbalanced distribution lines with mutual coupling across different voltage levels and the corresponding impact on network voltage. IET Generation, Transmission and Distribution, 2015, 9, 1727-1737.	2.5	10
223	Chronological risk assessment approach of distribution system with concentrated solar power plant. IET Renewable Power Generation, 2015, 9, 629-637.	3.1	10
224	Hybrid inductive and active filtering method for damping harmonic resonance in distribution network with non-linear loads. IET Power Electronics, 2015, 8, 1616-1624.	2.1	10
225	Evaluation of the battery operation in ramp-rate control mode within a PV plant: A case study. Solar Energy, 2018, 166, 242-254.	6.1	10
226	Investigation of Load Frequency Relief From Field Measurements and Its Impact on Contingency Reserve Evaluation. IEEE Transactions on Power Systems, 2018, 33, 567-577.	6.5	10
227	Improving the Scalability of a Prosumer Cooperative Game with K-Means Clustering. , 2019, , .		10
228	Ageing Analysis of Solar Farm Inverter Transformers. IEEE Transactions on Power Delivery, 2021, 36, 3815-3824.	4.3	10
229	Consumption Scenario-Based Probabilistic Load Forecasting of Single Household. IEEE Transactions on Smart Grid, 2022, 13, 1075-1087.	9.0	10
230	An advanced method for eliminating impacts from frequency deviations in power system signal processing. Electric Power Systems Research, 2003, 67, 177-184.	3.6	9
231	Intelligent framework and techniques for power transformer insulation diagnosis. , 2009, , .		9
232	Investigation of non-linearity in dielectric response measurements for transformer insulation diagnosis. , 2011, , .		9
233	Dynamic simulation of HVDC interconnection in large power system. , 2011, , .		9
234	Statistical analysis of diagnostic indicators during an accelerated ageing experiment for XLPE cable specimens. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 274-282.	2.9	9

#	ARTICLE	IF	CITATIONS
235	Reliability and economic study of multi-terminal HVDC with LCC & VSC converter for connecting remote renewable generators to the grid. , 2013, , .		9
236	Estimation of maximum wind power penetration level to maintain an adequate frequency response in a power system. , 2014, , .		9
237	Vibration measurement and signal processing for condition assessment of OLTC of transformer. , 2015, , .		9
238	Classification and Localization of Fault-Initiated Voltage Sags Using 3-D Polarization Ellipse Parameters. IEEE Transactions on Power Delivery, 2020, 35, 1812-1822.	4.3	9
239	A Practical Health Index for Overhead Conductors: Experience From Australian Distribution Networks. IEEE Access, 2020, 8, 218863-218873.	4.2	9
240	Investigation on congestion-based optimal energy price for competitive electricity market. , 2008, , .		8
241	Renewable power penetration to remote grid - transmission configuration and net benefit analyses. , 2011, , .		8
242	An approach to control a photovoltaic generator to damp low frequency oscillations in an emerging distribution system. , 2011, , .		8
243	Investigation of the impacts of three-phase photovoltaic systems on three-phase unbalanced networks. , 2012, , .		8
244	Stochastic noise removal on partial discharge measurement for transformer insulation diagnosis. , 2014, , .		8
245	The effect of PV on transformer ageing: University of Queensland's experience. , 2014, , .		8
246	Reliability evaluation of wind farms considering generation and transmission systems. , 2014, , .		8
247	Field investigation of voltage quality issues in distribution network with PV penetration. , 2015, , .		8
248	Wind offering strategy in the Australian National Electricity Market: A two-step plan considering demand response. Electric Power Systems Research, 2015, 119, 187-198.	3.6	8
249	Condition monitoring of a large-scale PV power plant in Australia. , 2016, , .		8
250	Analysis of Vibration Signal for Power Transformer On-Load Tap Changer (OLTC) Condition Monitoring. , 2018, , .		8
251	A feasibility study of the 1.5-axis tracking model in utility-scale solar PV plants. Solar Energy, 2021, 216, 171-179.	6.1	8
252	Source Authentication of Distribution Synchrophasors for Cybersecurity of Microgrids. IEEE Transactions on Smart Grid, 2021, 12, 4577-4580.	9.0	8

#	ARTICLE	IF	CITATIONS
253	Prosumer-Driven Voltage Regulation via Coordinated Real and Reactive Power Control. IEEE Transactions on Smart Grid, 2022, 13, 1441-1452.	9.0	8
254	A grid compatible methodology for reactive power compensation in renewable based distribution system. , 2011, , .		7
255	Value-based allocation and settlement of reserves in electricity markets. IET Generation, Transmission and Distribution, 2011, 5, 489.	2.5	7
256	Design microgrid for a distribution network: A case study of the University of Queensland. , 2013, , .		7
257	Locating inter-disc faults in transformer winding using frequency response analysis. , 2013, , .		7
258	Partial discharge pattern recognition using multiscale feature extraction and support vector machine. , 2013, , .		7
259	Stability enhancement in distribution systems with DFIG-based wind turbine by use of SFCL. , 2013, , .		7
260	Increasing wind capacity value in Tasmania using wind and hydro power coordination. , 2013, , .		7
261	An analytical approach to assess static voltage stability of distribution system with rooftop PV units. , 2014, , .		7
262	Queensland load profiling by using clustering techniques. , 2014, , .		7
263	PV power output uncertainty in Australia. , 2015, , .		7
264	Frequency response and its enhancement using synchronous condensers in presence of high wind penetration. , 2015, , .		7
265	An investigation on the influence of tap changer on Frequency Response Analysis. , 2015, , .		7
266	Large scale photovoltaic system and its impact on distribution network in transient cloud conditions. , 2015, , .		7
267	Particle tracing modelling on moisture dynamics of oil-impregnated transformer. IET Science, Measurement and Technology, 2016, 10, 335-343.	1.6	7
268	A novel signal extraction technique for online partial discharge (PD) measurement of transformers. International Transactions on Electrical Energy Systems, 2016, 26, 1032-1048.	1.9	7
269	Investigating passivator effectiveness for preventing silver sulfide corrosion in power transformer on-load tap changers. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 1761-1768.	2.9	7
270	A Review of Interconnection Rules for Large-Scale Renewable Power Generation. Green Energy and Technology, 2014, , 151-171.	0.6	7

#	ARTICLE	IF	CITATIONS
271	Comparisons of in-service and laboratory failure modes of metal-oxide distribution surge arresters. , 0, , .		6
272	Study on congested power system in competitive electricity market: A proposed methodology. , 2010, , .		6
273	Performance of MRAS based speed estimators for grid connected doubly fed induction machines during voltage dips. , 2012, , .		6
274	Revisiting damping performance of the queensland network under wind power penetration. , 2012, , .		6
275	A study on suitability of different transformer winding models for frequency response analysis. , 2012, , .		6
276	Zinc-bromine flow batteries in residential electricity supply: Two case studies. , 2012, , .		6
277	A novel MIQCP method for FACTS allocation in complex real-world grids. International Journal of Electrical Power and Energy Systems, 2014, 62, 735-743.	5.5	6
278	Pattern recognition techniques for power transformer insulation diagnosis-a comparative study part 2: implementation, case study, and statistical analysis. International Transactions on Electrical Energy Systems, 2015, 25, 2260-2274.	1.9	6
279	Fault contribution from large photovoltaic systems in building power supply networks. Journal of Building Engineering, 2016, 5, 222-230.	3.4	6
280	The impact of temperature on battery degradation for large-scale BESS in PV plant. , 2017, , .		6
281	Cascading Contingencies in a Renewable Dominated Power System: Risk of Blackouts and Its Mitigation. , 2018, , .		6
282	Investigation of overall and local vibration characteristics of diskÊtype windings. IET Generation, Transmission and Distribution, 2020, 14, 3685-3691.	2.5	6
283	Topology Detection in Power Distribution Networks: A PMU Based Deep Learning Approach. IEEE Transactions on Power Systems, 2022, 37, 2771-2782.	6.5	6
284	Analytical Representation of the Relationship Between Generator Design and System Fault Behavior. IEEE Transactions on Power Systems, 2005, 20, 1215-1223.	6.5	5
285	A theoretical investigation for the development of a water tree dielectric response model. , 2006, , .		5
286	Power transformer insulation diagnosis under measurement originated uncertainties. , 2010, , .		5
287	Application of MIQCP based SVC allocation method to a complex real-world grid. , 2012, , .		5
288	Analysis and mitigation of transient overvoltage with integration of small scale power-electronic interfaced DG. , 2012, , .		5

#	ARTICLE	IF	CITATIONS
289	Improved extended complex Kalman filter for identifying inter-area oscillations. , 2012, , .		5
290	The importance of non-uniform geoelectric fields in calculating GIC distributions. , 2013, , .		5
291	Improving measurement techniques of power transformer insulation: A study of the intermolecular interactions between water and vegetable oil based dielectrics. , 2013, , .		5
292	Predictive control of wind turbines with storage. , 2013, , .		5
293	Frequency response with significant wind power penetration: Case study of a realistic power system. , 2014, , .		5
294	Performance assessment of solar thermal power plants: A case study in Queensland. , 2014, , .		5
295	Effect of PV power injection in unbalanced distribution systems. , 2014, , .		5
296	Investigating the priority of market participants for low emission generation entry into the Australian grid. Energy, 2014, 71, 445-455.	8.8	5
297	Performance analysis of resistive and flux-lock type SFCL in electricity networks with DGs. , 2015, , .		5
298	A new approach for optimal allocation of multiple SFCLs in a power system with distributed generation. , 2015, , .		5
299	Desirable control features of battery energy storage systems for commercial scale solar PV plants. , 2015, , .		5
300	Condition assessment of the electrical insulation in a high voltage current transformer using an oil/sand mix. IEEE Electrical Insulation Magazine, 2016, 32, 14-20.	0.8	5
301	Cooperative control of distributed heterogeneous energy storage devices with virtual impedance. , 2017, , .		5
302	Model-driven real-time control coordination for distribution grids with medium-scale photovoltaic generation. IET Renewable Power Generation, 2017, 11, 1603-1612.	3.1	5
303	A Comprehensive Model to Integrate Emerging Resources From Supply and Demand Sides. IEEE Transactions on Smart Grid, 2018, 9, 3883-3896.	9.0	5
304	Impact of Power Fluctuations on Voltage Variations for Remote Distribution Networks with High PV Penetrations. , 2018, , .		5
305	Flexible Cooperative Game Theory Tool for Peer-to-Peer Energy Trading Analysis. , 2018, , .		5
306	Interruption of Low-Voltage DC Arc in Air Under Axial Magnetic Field. IEEE Transactions on Power Delivery, 2020, 35, 977-986.	4.3	5

#	ARTICLE	IF	CITATIONS
307	Extraction of Dynamic Frequency Response Characteristics and Modelling of Modern Air Conditioners. IEEE Transactions on Smart Grid, 2021, 12, 897-900.	9.0	5
308	Identification of Partial Discharge Through Cable-Specific Adaption and Neural Network Ensemble. IEEE Transactions on Power Delivery, 2022, 37, 1598-1607.	4.3	5
309	Control algorithms to mitigate the effect of uncertainties in residential demand management. Applied Energy, 2022, 306, 117971.	10.1	5
310	Authenticating source information of distribution synchrophasors at intra-state locations for cyber-physical resilient power networks. International Journal of Electrical Power and Energy Systems, 2022, 139, 108009.	5.5	5
311	Application of Loop Frame of Reference to Power Flow Tracing and Loss Allocation. International Journal of Emerging Electric Power Systems, 2006, 5, .	0.8	4
312	Developing GENCO's Strategic Bidding in an Electricity Market with Incomplete Information. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	4
313	Optimal portfolio selection for generators in the electricity market. , 2008, , .		4
314	Dielectric response of transformer insulation - comparison of time domain and frequency domain measurements. , 2010, , .		4
315	Predictive learning and information fusion for condition assessment of power transformer. , 2011, , .		4
316	Tradeoffs in planning renewable power generation entry to the electricity market. , 2011, , .		4
317	Investigation of a micro-grid operation: A case study of Heron Island network, Australia. , 2013, , .		4
318	Power transformer condition assessment using support vector machine with heuristic optimization. , 2013, , .		4
319	Partial discharge sources classification of power transformer using pattern recognition techniques. , 2013, , .		4
320	Performance analysis of flux-lock type SFCL influenced by characteristics of two coils. , 2014, , .		4
321	Coordinated control of multi-functional battery energy storage system in an unbalanced network. , 2014, , .		4
322	Differential partial discharge extraction technique for online power transformer insulation assessment. , 2014, , .		4
323	Transformer hot spot temperature prediction using a hybrid algorithm of support vector regression and information granulation. , 2015, , .		4
324	Multi-source information fusion for power transformer condition assessment. , 2016, , .		4

#	ARTICLE	IF	CITATIONS
325	Moisture and temperature effects on power transformer winding clamping pressure. , 2016, , .		4
326	Investigation of voltage performance of an LV distribution network for improving rooftop photovoltaic uptake in Australia. , 2016, , .		4
327	A review on influencing factors of sulphur corrosion and metal passivation in power transformers. , 2017, , .		4
328	Cascading contingencies in low inertia power systems: Frequency response challenges and a potential solution. , 2017, , .		4
329	Voltage regulation for distribution systems with Uneven PV integration in different feeders. , 2017, , .		4
330	Detection of DG-islanding employing decision boundary of polarization ellipse parameters. Electric Power Systems Research, 2020, 188, 106536.	3.6	4
331	A Risk Assessment for Utilities to Prevent Transformer OLTC Failures Caused by Silver Sulphide Corrosion. IEEE Transactions on Power Delivery, 2022, 37, 2394-2402.	4.3	4
332	Multifractal Characterization of Distribution Synchrophasors for Cybersecurity Defense of Smart Grids. IEEE Transactions on Smart Grid, 2022, 13, 1658-1661.	9.0	4
333	Voltage control loss factors for quantifying DG reactive power control impacts on losses and curtailment. IET Generation, Transmission and Distribution, 2022, 16, 2049-2062.	2.5	4
334	On recognition of multiple power quality disturbance events in electricity networks. IET Generation, Transmission and Distribution, 2022, 16, 1697-1713.	2.5	4
335	Localisation of Partial Discharge in Power Cables Through Multi-Output Convolutional Recurrent Neural Network and Feature Extraction. IEEE Transactions on Power Delivery, 2023, 38, 177-188.	4.3	4
336	Real-Time Decoupled Equivalent Models for Static Security Analysis. IEEE Transactions on Power Systems, 1986, 1, 18-24.	6.5	3
337	Water migration in degraded XLPE cables. , 2006, , .		3
338	Probabilistic Modelling of Demand Diversity and its Relationship with Electricity Market Outcomes. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	3
339	Evaluation of New Generation Entry in A Deregulated Electricity Market. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	3
340	Performance of power oscillation damping controllers with different static load characteristics. , 2011, , .		3
341	Understanding moisture diffusion process in oil-impregnated pressboard insulation of transformer. , 2011, , .		3
342	Dynamic interactions among multiple DER controllers in distribution systems. , 2012, , .		3

#	ARTICLE	IF	CITATIONS
343	Finite element method modeled dielectric response for condition evaluation of transformer insulation. , 2013, , .		3
344	Study of transformer winding deformation by frequency response analysis. , 2013, , .		3
345	Investigating the sensitivity of frequency response analysis on transformer winding structure. , 2014, , .		3
346	A probabilistic index for estimating frequency response of a power system with high wind power penetration. , 2014, , .		3
347	Investigating impacts of battery energy storage systems on electricity demand profile. , 2014, , .		3
348	Impact of load frequency dependence on frequency response of a power system with high non-synchronous penetration. , 2015, , .		3
349	Residential load variability and diversity at different sampling time and aggregation scales. , 2017, , .		3
350	Analyzing Differences in Useful Life of Power Transformers across Utilities for Better Strategic Spares Management. , 2018, , .		3
351	Incentivizing Prosumer Coalitions with Energy Management using Cooperative Game Theory. , 2019, , .		3
352	Deployment of Synchronous Condensers to Improve System Strength under High Wind Power Penetration. , 2019, , .		3
353	Electrical Tree Driven Breakdown of XLPE Under Step Stress Breakdown Test at Multiple Frequencies. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 2065-2073.	2.9	3
354	A Probabilistic Simulation Model to Identify New Generation Investments. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	2
355	Comparative effectiveness of loss allocation methods for providing signals to affect market operation. Australian Journal of Electrical and Electronics Engineering, 2007, 3, 101-110.	1.2	2
356	Reducing the engineering skills shortage in the generation sector. , 2007, , .		2
357	Frequency domain dielectric relaxation in water tree degraded XLPE cables. , 2007, , .		2
358	Cost/Benefit Analysis of Generation Investments Considering System Constraints. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	2
359	Investigation of residential customer safety-line, neutral and earth integrity. , 2009, , .		2
360	Past experience and future developments toward the safeguarding of power transformers. , 2010, , .		2

#	ARTICLE	IF	CITATIONS
361	Stability evaluation of distributed generator integrated system with index based placement of STATCOM. , 2011, , .		2
362	Solving Multi-Objective Voltage Stability Constrained Power Transfer Capability Problem using Evolutionary Computation. International Journal of Emerging Electric Power Systems, 2011, 12, .	0.8	2
363	Investigation of voltage sensitivities to photovoltaic power fluctuations in unbalanced distribution networks. , 2012, , .		2
364	Emission pricing and locational signal impact on generation portfolio in large scale Queensland network. , 2012, , .		2
365	Variability and performance analysis of the PV plant at The University of Queensland. , 2013, , .		2
366	Bayesian neural network and discrete wavelet transform for partial discharge pattern classification in high voltage equipment. , 2013, , .		2
367	Investigating static voltage stability of distribution system with rooftop PV units. , 2013, , .		2
368	Reliability evaluation with wind turbines and photovoltaic panels. , 2014, , .		2
369	Analysis of upstream gas network constraints for power generation in Queensland. , 2014, , .		2
370	Analysing the PV output variability and its mitigation through aggregation in Queensland, Australia. , 2014, , .		2
371	Synthetic testing of medium voltage load break switches. , 2014, , .		2
372	Extending methods to determine the life remaining of transformer paper insulation. , 2014, , .		2
373	Effect of pressboard ageing on power transformer mechanical vibration characteristics. , 2015, , .		2
374	Medium voltage grid conventional control in the presence of a large scale aphotovoltaic system. , 2015, , .		2
375	Influence of moisture and ageing on dielectric response of ester and mineral oil impregnated pressboard insulation. , 2015, , .		2
376	A tool to estimate maximum arbitrage from battery energy storage by maintaining voltage limits in an LV network. , 2015, , .		2
377	Investigation of moisture influence on dielectric response of ester oil impregnated pressboard. , 2015, , .		2
378	Finite element analysis to understand the mechanical defects in power transformer winding clamping structure. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
379	Understanding the effect of non-uniform ageing on dielectric response of transformer insulation. , 2017, , .		2
380	Implications of synchronous generator withdrawal following renewable proliferation in South Australia. , 2017, , .		2
381	Enhancing Damping Performance of Emerging Distribution Systems by Load Controller. IEEE Transactions on Smart Grid, 2018, 9, 3635-3642.	9.0	2
382	The Value of Reactive Power for Voltage Control in Lossy Networks. , 2018, , .		2
383	Loss Induced Maximum Power Transfer in Distribution Networks. , 2018, , .		2
384	Electrical Power Engineering Education Down Under: Australia and New Zealand Are Adding Energy to Their University Curricula. IEEE Power and Energy Magazine, 2018, 16, 64-73.	1.6	2
385	A Customer Centric Approach to the Use of Residential Batteries for Distribution Network Support. IEEE Transactions on Smart Grid, 2019, 10, 5449-5457.	9.0	2
386	Simulation of the thermal current interruption process of air-break interrupters for future mv application. Electric Power Systems Research, 2020, 182, 106264.	3.6	2
387	Design Innovation Approaches for Sustainable Smart Energy Systems. , 2018, , .		2
388	Improving Frequency Response of a Low Inertia Grid via an Appropriate Load Shedding Scheme. , 2020, , .		2
389	The effect of cable terminations on dielectric response measurements. , 2007, , .		1
390	The role of laboratory exercises in modern power engineering education at the University of Queensland. , 2008, , .		1
391	A market simulation model for long-term power system planning studies. , 2008, , .		1
392	Generation Investment and Risks Modeling in a Deregulated Electricity Market. International Journal of Emerging Electric Power Systems, 2010, 11, .	0.8	1
393	A control methodology for renewable energy integrations in distribution systems. , 2011, , .		1
394	Study on Moisture in Oil-Paper Insulation by Frequency Domain Spectroscopy. , 2011, , .		1
395	Interpretation of dielectric response measurements of transformer insulation under temperature variations and transient effects. , 2012, , .		1
396	Power plant efficiency reporting and online auditing system for carbon pollution. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
397	Practical issues of online partial discharge measurement for in-service substation transformer. , 2013, , .		1
398	Application of extremum seeking control to design power oscillation damping controller. Electric Power Systems Research, 2013, 101, 49-55.	3.6	1
399	Impacts of wind turbine inertia on power transmission systems. , 2014, , .		1
400	Generation expansion planning in queensland under rooftop photovoltaic penetration and gas market uncertainties. , 2015, , .		1
401	A study on the voltage sensitivity of LVABC and underground cable connected distribution networks. , 2015, , .		1
402	Time domain diffusion-driven dielectric response model for investigation of moisture dynamics in transformers insulation. , 2015, , .		1
403	Comparative study to understand behaviour of natural ester as transformer insulating liquid. , 2015, , .		1
404	Correlation between frequency response and short-circuit performance due to high wind penetration. , 2015, , .		1
405	Multi-variable approach for evaluating transformer paper insulation. , 2015, , .		1
406	Sinusoidal noise suppression technique for partial discharge measurement of transformers. , 2015, , .		1
407	Signal extraction methods for online partial discharge (PD) measurement of power transformers. , 2015, , .		1
408	Stochastic generation and transmission planning considering future renewable and gas opportunities in Queensland, Australia. , 2016, , .		1
409	Practical approach to facilitate photovoltaic integration in distribution systems. Journal of Engineering, 2016, 2016, 80-87.	1.1	1
410	Two-Part Synthetic Test Procedures for the Testing of Medium-Voltage Load Break Switches. IEEE Transactions on Power Delivery, 2016, 31, 1645-1654.	4.3	1
411	An improved spatial intersectional method for partial discharge (PD) source localization in power transformer. , 2018, , .		1
412	Performance Evaluation of Fiber Optic Sensors to Measure Moisture in Transformer Insulation. , 2019, , .		1
413	Hypothesis of Interfacial Charge Transportation in Oil-Paper Insulation for Transformer Moisture Estimation. , 2019, , .		1
414	Finite Element Analysis on On-load Tap Changer (OLTC) Tap Selector Electrical Breakdown Mechanism Caused by Silver Sulphide Corrosion. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
415	Investigation on Power Generation Valley of Single-Axis Tracking Arrays at a Solar PV Plant in Australia. , 2019, , .		1
416	Nodal and fixed price coexistence in distribution networks with optimal investment planning and tariff design. , 2020, , .		1
417	Artificial Intelligence in Electricity Market Operations and Management. , 2006, , 131-154.		1
418	A Deep Unsupervised Learning Approach to PMU Event Detection in an Active Distribution Network. , 2020, , .		1
419	Experimental Study on Partial Discharge Inception Voltage of Pressboard-Enclosed Void at Different Frequencies From the Perspective of the First Partial Discharge Time Lag. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, 29, 1382-1391.	2.9	1
420	Real-Time Decoupled Equivalent Models for Static Security Analysis. IEEE Power Engineering Review, 1986, PER-6, 19-20.	0.1	0
421	Transmission line performance against lightning investigated using FLASH 1.81. , 2007, , .		0
422	A performance comparison of probabilistic techniques for electricity market simulation. , 2009, , .		0
423	Decentralized power system damping controller design using H ∞ loop-shaping technique. , 2010, , .		0
424	Investigation of Oscillation Damping for connecting remote generators to a large power system. , 2011, , .		0
425	Load shed methodology for time sequential market simulations as applied to the Australian NEM. , 2011, , .		0
426	Computational tool to derive short-circuit network equivalents. , 2011, , .		0
427	A study of fault ride through with widespread grid integration of distributed generation. , 2012, , .		0
428	Investigation into the implementation of silicone coatings on high voltage insulators in Queensland. , 2012, , .		0
429	Enhancing small signal stability of an emerging distribution system by a coordinated controller. , 2012, , .		0
430	Learning from renewable power integration into the remote grid - A case study of Queensland network. , 2013, , .		0
431	Diagnostics of transformer insulation based on dielectric response measurements. , 2013, , .		0
432	Adaptive blind equalization for automatic partial discharge signal processing and pattern classification. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
433	A diffusion-driven model for investigating moisture effects on dielectric response measurement of transformer insulation. , 2014, , .		0
434	Evaluation of medium scale linear fresnel reflector CSP: A case study in North Queensland. , 2014, , .		0
435	Slack bus independent distribution factors for large power system. , 2014, , .		0
436	The impact of interconnections on reliability contribution of wind farms. , 2015, , .		0
437	Advanced signal processing techniques for transformer condition assessment. , 2015, , .		0
438	Optimization of static wind power investment in the Australian national electricity market. , 2015, , .		0
439	Investigation of non-synchronous penetration level and its impact on frequency response in a wind dominated power system. , 2016, , .		0
440	PDTools: A toolbox of partial discharge (PD) signal analysis for transformer condition assessment. , 2017, , .		0
441	Temperature dependent mechanical properties of pressboard in transformer winding structure. , 2017, , .		0
442	Challenges And Opportunities of Renewable Energy Integrations to National Grids. , 2018, , .		0
443	Evaluating Various Battery Behaviours to Maximise Consumer Value Across the Electricity Supply Chain. , 2019, , .		0
444	Peer-to-peer energy platforms. , 2021, , 91-105.		0
445	Investigation of Frequency Response in a Low Inertia Power System and its Improvement. , 2021, , .		0
446	On Sky Imaging Analysis and Deep Learning for Photovoltaic Output Nowcasting. , 2020, , .		0
447	Optimal Co-Allocation Plan of Dynamic Line Rating and FACTS for Wind Integration Considering Forecast Uncertainties. , 2020, , .		0
448	Control of Residential Air-conditioning Loads to Provide Regulation Services under Uncertainties. , 2021, , .		0
449	Call-options in Peer-to-Peer Energy Markets. , 2021, , .		0