

Tapan Kumar Saha

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

382
papers

8,121
citations

46
h-index

76
g-index

458
ext. papers

11,177
ext. citations

5.7
avg, IF

7.09
L-index

#	Paper	IF	Citations
382	Multifractal Characterization of Distribution Synchronphasors for Cybersecurity Defense of Smart Grids. <i>IEEE Transactions on Smart Grid</i> , 2022 , 13, 1658-1661	10.7	2
381	Thermal Analysis of Natural Cooling Type Distribution Transformer Retrofilled with Natural Ester Oil. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2022 , 1-1	2.3	1
380	Authenticating source information of distribution synchronphasors at intra-state locations for cyber-physical resilient power networks. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 139, 108009	5.1	0
379	Control algorithms to mitigate the effect of uncertainties in residential demand management. <i>Applied Energy</i> , 2022 , 306, 117971	10.7	1
378	On recognition of multiple power quality disturbance events in electricity networks. <i>IET Generation, Transmission and Distribution</i> , 2022 , 16, 1697-1713	2.5	0
377	A framework for participation of prosumers in peer-to-peer energy trading and flexibility markets. <i>Applied Energy</i> , 2022 , 314, 118907	10.7	4
376	Coordination of resources at the edge of the electricity grid: Systematic review and taxonomy. <i>Applied Energy</i> , 2022 , 318, 119188	10.7	3
375	A Risk Assessment for Utilities to Prevent Transformer OLTC Failures Caused by Silver Sulphide Corrosion. <i>IEEE Transactions on Power Delivery</i> , 2021 , 1-1	4.3	1
374	Prosumer-Driven Voltage Regulation via Coordinated Real and Reactive Power Control. <i>IEEE Transactions on Smart Grid</i> , 2021 , 1-1	10.7	1
373	Topology Detection in Power Distribution Networks: A PMU Based Deep Learning Approach. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	0
372	Consumption Scenario-based Probabilistic Load Forecasting of Single Household. <i>IEEE Transactions on Smart Grid</i> , 2021 , 1-1	10.7	0
371	Roles of retailers in the peer-to-peer electricity market: A single retailer perspective. <i>IScience</i> , 2021 , 24, 103278	6.1	6
370	A feasibility study of the 1.5-axis tracking model in utility-scale solar PV plants. <i>Solar Energy</i> , 2021 , 216, 171-179	6.8	2
369	Estimating State of Charge for xEV Batteries Using 1D Convolutional Neural Networks and Transfer Learning. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 3123-3135	6.8	11
368	Multiscale design for system-wide peer-to-peer energy trading. <i>One Earth</i> , 2021 , 4, 629-638	8.1	3
367	Capturing Spatio-Temporal Dependencies in the Probabilistic Forecasting of Distribution Locational Marginal Prices. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 2663-2674	10.7	8
366	An Excessive Tap Operation Evaluation Approach for Unbalanced Distribution Networks With High PV Penetration. <i>IEEE Transactions on Sustainable Energy</i> , 2021 , 12, 169-178	8.2	2

365	Scaling Up Cooperative Game Theory-Based Energy Management Using Prosumer Clustering. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 289-300	10.7	4
364	Extraction of Dynamic Frequency Response Characteristics and Modelling of Modern Air Conditioners. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 897-900	10.7	2
363	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	10
362	Online Rolling Evolutionary Decoder-Dispatch Framework for the Secondary Frequency Regulation of Time-Varying Electrical-Grid-Electric-Vehicle System. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 871-884	10.7	9
361	Peer-to-peer energy systems for connected communities: A review of recent advances and emerging challenges. <i>Applied Energy</i> , 2021 , 282, 116131	10.7	96
360	IIoT-Enabled Health Monitoring for Integrated Heat Pump System Using Mixture Slow Feature Analysis. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 1-1	11.9	7
359	Peer-to-peer energy platforms 2021 , 91-105		
358	Identification of Partial Discharge Through Cable-Specific Adaption and Neural Network Ensemble. <i>IEEE Transactions on Power Delivery</i> , 2021 , 1-1	4.3	0
357	Ageing Analysis of Solar Farm Inverter Transformers. <i>IEEE Transactions on Power Delivery</i> , 2021 , 1-1	4.3	1
356	Estimation of the Shapley Value of a Peer-to-peer Energy Sharing Game Using Multi-Step Coalitional Stratified Sampling. <i>International Journal of Control, Automation and Systems</i> , 2021 , 19, 1863-1872	2.9	4
355	Photovoltaic Nowcasting With Bi-Level Spatio-Temporal Analysis Incorporating Sky Images. <i>IEEE Transactions on Sustainable Energy</i> , 2021 , 12, 1766-1776	8.2	4
354	. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 4577-4580	10.7	4
353	Coalition Graph Game-Based P2P Energy Trading With Local Voltage Management. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 4389-4402	10.7	14
352	Cooperative negawatt P2P energy trading for low-voltage distribution networks. <i>Applied Energy</i> , 2021 , 299, 117300	10.7	6
351	Risk-based Contingency-constrained Optimal Power Flow With Adjustable Uncertainty Set of Wind Power. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 1-1	11.9	4
350	Electrical Tree Driven Breakdown of XLPE Under Step Stress Breakdown Test at Multiple Frequencies. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2021 , 28, 2065-2073	2.3	0
349	Optimal Allocation of Synchronous Condensers in Wind Dominated Power Grids. <i>IEEE Access</i> , 2020 , 8, 45400-45410	3.5	7
348	A technique for fault detection, identification and location in solar photovoltaic systems. <i>Solar Energy</i> , 2020 , 206, 864-874	6.8	6

347	An uncertainty-aware deep reinforcement learning framework for residential air conditioning energy management. <i>Applied Energy</i> , 2020 , 276, 115426	10.7	19
346	Exploiting design thinking to improve energy efficiency of buildings. <i>Energy</i> , 2020 , 197, 117141	7.9	8
345	Peer-to-Peer Trading in Electricity Networks: An Overview. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 3185-3200	10.7	186
344	A Distributed Inter-Phase Coordination Algorithm for Voltage Control With Unbalanced PV Integration in LV Systems. <i>IEEE Transactions on Sustainable Energy</i> , 2020 , 11, 2687-2697	8.2	22
343	Investigating the impact of P2P trading on power losses in grid-connected networks with prosumers. <i>Applied Energy</i> , 2020 , 263, 114687	10.7	29
342	Regulated P2P Energy Trading: A Typical Australian Distribution Network Case Study 2020 ,		4
341	Advanced Online Moisture Measurements in Transformer Insulation Using Optical Sensors. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020 , 27, 1803-1810	2.3	8
340	Improving Frequency Response of a Low Inertia Grid via an Appropriate Load Shedding Scheme 2020 ,		1
339	Investigation of overall and local vibration characteristics of disk-type windings. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 3685-3691	2.5	1
338	Coordinated electric vehicle charging to reduce losses without network impedances. <i>IET Smart Grid</i> , 2020 , 3, 677-685	2.7	3
337	Grid Influenced Peer-to-Peer Energy Trading. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 1407-1418	10.7	92
336	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	11.9	14
335	. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 3095-3106	10.7	44
334	A coalition formation game framework for peer-to-peer energy trading. <i>Applied Energy</i> , 2020 , 261, 114436.7	6.7	61
333	System Strength and Inertia Constrained Optimal Generator Dispatch Under High Renewable Penetration. <i>IEEE Transactions on Sustainable Energy</i> , 2020 , 11, 2392-2406	8.2	9
332	Classification and Localization of Fault-Initiated Voltage Sags Using 3-D Polarization Ellipse Parameters. <i>IEEE Transactions on Power Delivery</i> , 2020 , 35, 1812-1822	4.3	4
331	Zonal Inertia Constrained Generator Dispatch Considering Load Frequency Relief. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 3065-3077	7	6
330	A data-driven approach to estimate battery cell temperature using a nonlinear autoregressive exogenous neural network model. <i>Journal of Energy Storage</i> , 2020 , 32, 101879	7.8	9

329	Simulation of the thermal current interruption process of air-break interrupters for future mv application. <i>Electric Power Systems Research</i> , 2020 , 182, 106264	3.5	0
328	Detection of DG-islanding employing decision boundary of polarization ellipse parameters. <i>Electric Power Systems Research</i> , 2020 , 188, 106536	3.5	4
327	Challenges and prospects for negawatt trading in light of recent technological developments. <i>Nature Energy</i> , 2020 , 5, 834-841	62.3	19
326	Investigating passivator effectiveness for preventing silver sulfide corrosion in power transformer on-load tap changers. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020 , 27, 1761-1768	2.3	3
325	Nodal and fixed price coexistence in distribution networks with optimal investment planning and tariff design 2020 ,		1
324	A Practical Health Index for Overhead Conductors: Experience From Australian Distribution Networks. <i>IEEE Access</i> , 2020 , 8, 218863-218873	3.5	2
323	Improving Predictability of Renewable Generation Through Optimal Battery Sizing. <i>IEEE Transactions on Sustainable Energy</i> , 2020 , 11, 37-47	8.2	11
322	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	8.2	17
321	Capacity and Control Strategy Design of Isolated Micro-Grid With High Renewable Penetration. <i>IEEE Transactions on Sustainable Energy</i> , 2020 , 11, 1173-1184	8.2	5
320	Operational Modal Analysis of Transformer Windings. <i>IEEE Transactions on Power Delivery</i> , 2020 , 35, 1285-1298	4.3	1
319	Interruption of Low-Voltage DC Arc in Air Under Axial Magnetic Field. <i>IEEE Transactions on Power Delivery</i> , 2020 , 35, 977-986	4.3	5
318	Voltage regulation challenges with unbalanced PV integration in low voltage distribution systems and the corresponding solution. <i>Applied Energy</i> , 2019 , 256, 113927	10.7	31
317	Measurements on pressboard to understand the effect of solid insulation condition on monitoring of power transformer winding clamping pressure. <i>IET Science, Measurement and Technology</i> , 2019 , 13, 186-192	1.5	6
316	A motivational game-theoretic approach for peer-to-peer energy trading in the smart grid. <i>Applied Energy</i> , 2019 , 243, 10-20	10.7	138
315	Incentivizing Prosumer Coalitions With Energy Management Using Cooperative Game Theory. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 303-313	7	79
314	. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 4005-4014	7	168
313	Investigation of Distributed Moisture and Temperature Measurements in Transformers Using Fiber Optics Sensors. <i>IEEE Transactions on Power Delivery</i> , 2019 , 34, 1776-1784	4.3	10
312	An approach for fault detection and location in solar PV systems. <i>Solar Energy</i> , 2019 , 194, 197-208	6.8	21

311	Feasibility Study of Financial P2P Energy Trading in a Grid-tied Power Network 2019 ,		20
310	Investigation on Power Generation Valley of Single-Axis Tracking Arrays at a Solar PV Plant in Australia 2019 ,		1
309	Improving the Scalability of a Prosumer Cooperative Game with K-Means Clustering 2019 ,		3
308	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019 , 26, 1926-1934	2.3	6
307	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	5.4	15
306	A Customer Centric Approach to the Use of Residential Batteries for Distribution Network Support. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 5449-5457	10.7	0
305	Designing Decentralized Markets for Distribution System Flexibility. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 2128-2139	7	81
304	Bilateral Contract Networks for Peer-to-Peer Energy Trading. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 2026-2035	10.7	208
303	Real-Time Coordinated Voltage Support With Battery Energy Storage in a Distribution Grid Equipped With Medium-Scale PV Generation. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 3486-3497	10.7	32
302	. <i>IEEE Transactions on Power Delivery</i> , 2018 , 33, 2643-2653	4.3	12
301	A stochastic integrated planning of electricity and natural gas networks for Queensland, Australia considering high renewable penetration. <i>Energy</i> , 2018 , 153, 539-553	7.9	22
300	Bayesian information fusion for probabilistic health index of power transformer. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 279-287	2.5	17
299	The Anatomy of the 2016 South Australia Blackout: A Catastrophic Event in a High Renewable Network. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 5374-5388	7	77
298	Evaluation of the battery operation in ramp-rate control mode within a PV plant: A case study. <i>Solar Energy</i> , 2018 , 166, 242-254	6.8	6
297	. <i>IEEE Transactions on Computational Social Systems</i> , 2018 , 5, 289-301	4.5	17
296	Real-Time Coordinated Voltage Control of PV Inverters and Energy Storage for Weak Networks With High PV Penetration. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 3383-3395	7	85
295	Using peer-to-peer energy-trading platforms to incentivize prosumers to form federated power plants. <i>Nature Energy</i> , 2018 , 3, 94-101	62.3	314
294	A multi-stage transition toward high renewable energy penetration in Queensland, Australia. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 850-858	2.5	9

293	PV module degradation analysis and impact on settings of overcurrent protection devices. <i>Solar Energy</i> , 2018 , 160, 360-367	6.8	32
292	Investigation Into Modeling Australian Power Transformer Failure and Retirement Statistics. <i>IEEE Transactions on Power Delivery</i> , 2018 , 33, 2011-2019	4.3	16
291	A New Remote Tap Position Estimation Approach for Open-Delta Step-Voltage Regulator in a Photovoltaic Integrated Distribution Network. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 4433-4443	7	11
290	A Comprehensive Model to Integrate Emerging Resources From Supply and Demand Sides. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 3883-3896	10.7	3
289	Modeling and Analysis of Open-Delta Step Voltage Regulators for Unbalanced Distribution Network With Photovoltaic Power Generation. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 2224-2234	10.7	16
288	Control Strategies for Microgrids With Distributed Energy Storage Systems: An Overview. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 3652-3666	10.7	177
287	Enhancing Damping Performance of Emerging Distribution Systems by Load Controller. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 3635-3642	10.7	1
286	Model Predictive Control for Distributed Microgrid Battery Energy Storage Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 1107-1114	4.8	69
285	Voltage Management for Large Scale PV Integration into Weak Distribution Systems. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 4128-4139	10.7	32
284	Investigation of Load Frequency Relief From Field Measurements and Its Impact on Contingency Reserve Evaluation. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 567-577	7	6
283	Minimum Synchronous Inertia Requirement of Renewable Power Systems. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 1533-1543	7	50
282	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	19
281	. <i>IEEE Signal Processing Magazine</i> , 2018 , 35, 90-111	9.4	187
280	An improved spatial intersectional method for partial discharge (PD) source localization in power transformer 2018 ,		1
279	Scalable Energy Management for Low Voltage Microgrids Using Multi-Agent Storage System Aggregation. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 1614-1623	7	26
278	Analysis of Vibration Signal for Power Transformer On-Load Tap Changer (OLTC) Condition Monitoring 2018 ,		2
277	Cascading Contingencies in a Renewable Dominated Power System: Risk of Blackouts and Its Mitigation 2018 ,		2
276	Impact of Power Fluctuations on Voltage Variations for Remote Distribution Networks with High PV Penetrations 2018 ,		3

275	System Strength and Weak Grids: Fundamentals, Challenges, and Mitigation Strategies 2018 ,		12
274	Multi-stage co-planning framework for electricity and natural gas under high renewable energy penetration. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 4284-4291	2.5	12
273	Flexible Cooperative Game Theory Tool for Peer-to-Peer Energy Trading Analysis 2018 ,		1
272	Constructing Prosumer Coalitions for Energy Cost Savings Using Cooperative Game Theory 2018 ,		10
271	Peer-to-Peer Energy Trading With Sustainable User Participation: A Game Theoretic Approach. <i>IEEE Access</i> , 2018 , 6, 62932-62943	3.5	89
270	Electrical Power Engineering Education Down Under: Australia and New Zealand Are Adding Energy to Their University Curricula. <i>IEEE Power and Energy Magazine</i> , 2018 , 16, 64-73	2.4	0
269	. <i>IEEE Signal Processing Magazine</i> , 2018 , 35, 100-110	9.4	65
268	. <i>IEEE Transactions on Power Delivery</i> , 2017 , 32, 1314-1320	4.3	9
267	A Joint Vibration and Arcing Measurement System for Online Condition Monitoring of Onload Tap Changer of the Power Transformer. <i>IEEE Transactions on Power Delivery</i> , 2017 , 32, 1031-1038	4.3	32
266	Condition monitoring of vegetable oil insulation in in-service power transformers: some data spanning 10 years. <i>IEEE Electrical Insulation Magazine</i> , 2017 , 33, 44-51	2.1	15
265	. <i>IEEE Electrical Insulation Magazine</i> , 2017 , 33, 8-16	2.1	31
264	Customer-driven demand response model for facilitating roof-top PV and wind power integration. <i>IET Renewable Power Generation</i> , 2017 , 11, 1200-1210	2.9	18
263	Cooperative control of distributed heterogeneous energy storage devices with virtual impedance 2017 ,		4
262	Variability study of a utility-scale PV plant in the fringe of grid, Australia 2017 ,		11
261	Model-driven real-time control coordination for distribution grids with medium-scale photovoltaic generation. <i>IET Renewable Power Generation</i> , 2017 , 11, 1603-1612	2.9	5
260	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	16
259	Advanced Signal Processing Techniques for Partial Discharge Measurement 2017 , 245-302		1
258	Frequency Response Analysis Interpretation for Winding Deformation of Power Transformers 2017 , 303-328		1

257	Impact of Moisture and Remaining Life Estimation 2017 , 329-360		
256	Biodegradable Oils and their Impact on Paper Ageing 2017 , 361-401		0
255	Survey of Australian power transformer failures and retirements. <i>IEEE Electrical Insulation Magazine</i> , 2017 , 33, 16-22	2.1	25
254	Smart Transformer Condition Monitoring and Diagnosis 2017 , 403-439		
253	Transformer Insulation Materials and Ageing 2017 , 1-33		7
252	Overview of Insulation Diagnostics 2017 , 35-79		
251	Dielectric Response Measurements 2017 , 81-209		1
250	Dissolved Gas Analysis Interpretation and Intelligent Machine Learning Techniques 2017 , 211-243		1
249	A bottom-up approach for demand response aggregators participation in electricity markets. <i>Electric Power Systems Research</i> , 2017 , 143, 121-129	3.5	79
248	Takagi Sugeno fuzzy model-based approach considering multiple weather factors for the photovoltaic power short-term forecasting. <i>IET Renewable Power Generation</i> , 2017 , 11, 1281-1287	2.9	35
247	A review on influencing factors of sulphur corrosion and metal passivation in power transformers 2017 ,		3
246	Understanding the effect of non-uniform ageing on dielectric response of transformer insulation 2017 ,		1
245	Cascading contingencies in low inertia power systems: Frequency response challenges and a potential solution 2017 ,		2
244	Influence of moisture dependency of pressboard on transformer winding clamping pressure. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017 , 24, 3191-3200	2.3	6
243	Voltage regulation for distribution systems with Uneven PV integration in different feeders 2017 ,		2
242	The impact of temperature on battery degradation for large-scale BESS in PV plant 2017 ,		1
241	Residential load variability and diversity at different sampling time and aggregation scales 2017 ,		1
240	Impact of PV penetration level on the capacity value of South Australian wind farms. <i>Renewable Energy</i> , 2016 , 85, 1135-1142	8.1	10

239	Demand Response Application by Strategic Wind Power Producers. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 1227-1237	7	19
238	Particle tracing modelling on moisture dynamics of oil-impregnated transformer. <i>IET Science, Measurement and Technology</i> , 2016 , 10, 335-343	1.5	6
237	Fundamental concepts of using water activity probes to assess transformer insulation water content. <i>IEEE Electrical Insulation Magazine</i> , 2016 , 32, 9-16	2.1	18
236	Low inertia power systems: Frequency response challenges and a possible solution 2016 ,		5
235	Evaluation of technical and financial benefits of battery-based energy storage systems in distribution networks. <i>IET Renewable Power Generation</i> , 2016 , 10, 1149-1160	2.9	55
234	Condition monitoring of a large-scale PV power plant in Australia 2016 ,		6
233	Investigation of voltage performance of an LV distribution network for improving rooftop photovoltaic uptake in Australia 2016 ,		3
232	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	2.9	21
231	Practical approach to facilitate photovoltaic integration in distribution systems. <i>Journal of Engineering</i> , 2016 , 2016, 80-87	0.7	1
230	Fault contribution from large photovoltaic systems in building power supply networks. <i>Journal of Building Engineering</i> , 2016 , 5, 222-230	5.2	4
229	A Time-Dependent Approach to Evaluate Capacity Value of Wind and Solar PV Generation. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 129-138	8.2	27
228	Current limiting impedance comparison between different designs of iron cores of the flux-lock-type superconducting fault current limiter. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 548-554	2.5	10
227	Two-Part Synthetic Test Procedures for the Testing of Medium-Voltage Load Break Switches. <i>IEEE Transactions on Power Delivery</i> , 2016 , 31, 1645-1654	4.3	1
226	Understanding the ageing aspects of natural ester based insulation liquid in power transformer. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016 , 23, 246-257	2.3	48
225	Condition assessment of the electrical insulation in a high voltage current transformer using an oil/sand mix. <i>IEEE Electrical Insulation Magazine</i> , 2016 , 32, 14-20	2.1	5
224	Investigation of the interaction between step voltage regulators and large-scale photovoltaic systems regarding voltage regulation and unbalance. <i>IET Renewable Power Generation</i> , 2016 , 10, 299-309	2.9	32
223	Harmonic impact of high penetration photovoltaic system on unbalanced distribution networks – learning from an urban photovoltaic network. <i>IET Renewable Power Generation</i> , 2016 , 10, 485-494	2.9	54
222	Performance of Natural Ester as a Transformer Oil in Moisture-Rich Environments. <i>Energies</i> , 2016 , 9, 258	3.1	23

221	A novel signal extraction technique for online partial discharge (PD) measurement of transformers. <i>International Transactions on Electrical Energy Systems</i> , 2016 , 26, 1032-1048	2.2	5
220	Cycle-life degradation assessment of Battery Energy Storage Systems caused by solar PV variability 2016 ,		12
219	Moisture and temperature effects on power transformer winding clamping pressure 2016 ,		2
218	Moisture-Dependent Thermal Modelling of Power Transformer. <i>IEEE Transactions on Power Delivery</i> , 2016 , 31, 2140-2150	4.3	32
217	Multi-physics modelling approach for investigation of moisture dynamics in power transformers. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 1993-2001	2.5	10
216	Analysis of frequency domain dielectric response of pressboard insulation impregnated with different insulating liquids. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016 , 23, 2042-2050	2.3	9
215	Post-retirement utilisation of synchronous generators to enhance security performances in a wind dominated power system. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 3314-3321	2.5	30
214	A new tool to estimate maximum wind power penetration level: In perspective of frequency response adequacy. <i>Applied Energy</i> , 2015 , 154, 209-220	10.7	33
213	Probabilistic wavelet transform for partial discharge measurement of transformer. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015 , 22, 1105-1117	2.3	30
212	Input/output selection for wide-area power oscillation damper of hybrid multi-terminal high-voltage direct current to connect remotely located renewable energy resources. <i>IET Generation, Transmission and Distribution</i> , 2015 , 9, 483-493	2.5	8
211	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	2.1	19
210	Modelling the dielectric response measurements of transformer oil. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015 , 22, 1283-1291	2.3	19
209	Examining the ageing of transformer insulation using FRA and FDS techniques. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015 , 22, 1258-1265	2.3	30
208	Analysis of unbalanced distribution lines with mutual coupling across different voltage levels and the corresponding impact on network voltage. <i>IET Generation, Transmission and Distribution</i> , 2015 , 9, 1727-1737	2.5	9
207	Dynamic voltage stability of distribution system with a high penetration of rooftop PV units 2015 ,		12
206	Harmonic characterization of grid connected PV systems & validation with field measurements 2015 ,		14
205	Investigation of moisture influence on dielectric response of ester oil impregnated pressboard 2015 ,		1
204	Sinusoidal noise suppression technique for partial discharge measurement of transformers 2015 ,		1

203	Large scale photovoltaic system and its impact on distribution network in transient cloud conditions 2015 ,		3
202	Time-frequency sparsity map on automatic partial discharge sources separation for power transformer condition assessment. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015 , 22, 2271-2283	2.3	35
201	Chronological risk assessment approach of distribution system with concentrated solar power plant. <i>IET Renewable Power Generation</i> , 2015 , 9, 629-637	2.9	8
200	Determining water in transformer paper insulation: analyzing aging transformers. <i>IEEE Electrical Insulation Magazine</i> , 2015 , 31, 23-32	2.1	25
199	Frequency response estimation method for high wind penetration considering wind turbine frequency support functions. <i>IET Renewable Power Generation</i> , 2015 , 9, 775-782	2.9	33
198	Frequency response analysis to investigate deformation of transformer winding. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015 , 22, 2359-2367	2.3	29
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