Hanbo Zheng

List of Publications by Year
in descending order

47 papers	1,058 citations	394421 19 h-index	434195 31 g-index
48 all docs	48 docs citations	48 times ranked	659 citing authors

#	Article	IF	Citations
1	An Islanding Detection and Prevention Method Based On Path Query of Distribution Network Topology Graph. IEEE Transactions on Sustainable Energy, 2022, 13, 81-90.	8.8	12
2	Arbitrary-Oriented Detection of Insulators in Thermal Imagery via Rotation Region Network. IEEE Transactions on Industrial Informatics, 2022, 18, 5242-5252.	11.3	14
3	Investigation on formation and solubility of formic acid, acetic acid and levulinic acid in insulating oil using COSMO-RS. Journal of Molecular Liquids, 2022, 346, 118256.	4.9	1
4	Investigation on Temperature Rise Characteristic and Load Capacity of Amorphous Alloy Vegetable Oil Distribution Transformers with 3D Coupled-Field Method. Machines, 2022, 10, 67.	2.2	2
5	Investigation on micro-mechanism of palm oil as natural ester insulating oil for overheating thermal fault analysis of transformers. High Voltage, 2022, 7, 812-824.	4.7	20
6	Low-Temperature Property Improvement on Green and Low-Carbon Natural Ester Insulating Oil. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, 29, 1459-1464.	2.9	8
7	Investigation on Formation Mechanisms of Carbon Oxides During Thermal Aging of Cellulosic Insulating Paper. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, 29, 1226-1233.	2.9	11
8	Application of multi-factor dynamic interaction graph in vulnerability assessment and online monitoring of transmission lines. International Journal of Electrical Power and Energy Systems, 2022, 143, 108435.	5.5	1
9	Investigation on the equilibrium distribution of methanol in transformer oil-immersed cellulosic insulation. Cellulose, 2021, 28, 1703-1714.	4.9	10
10	Temperature Compensation Method for Infrared Detection of Live Equipment under the Interferences of Wind Speed and Ambient Temperature. IEEE Transactions on Instrumentation and Measurement, 2021, , 1-1.	4.7	11
11	Aging state assessment of transformer cellulosic paper insulation using multivariate chemical indicators. Cellulose, 2021, 28, 2445-2460.	4.9	22
12	Microscopic Reaction Mechanisms of Formic Acid Generated During Pyrolysis of Cellulosic Insulating Paper. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 1661-1668.	2.9	12
13	Infrared Image Detection of Substation Insulators Using an Improved Fusion Single Shot Multibox Detector. IEEE Transactions on Power Delivery, 2021, 36, 3351-3359.	4.3	33
14	Lifespan Model of the Relationships between Ethanol Indicator and Degree of Polymerization of Transformer Paper Insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 1859-1866.	2.9	11
15	Identifying hotspots of sectors and supply chain paths for electricity conservation in China. Journal of Cleaner Production, 2020, 251, 119653.	9.3	27
16	Quantitative evaluation for moisture content of cellulose insulation material in paper/oil system based on frequency dielectric modulus technique. Cellulose, 2020, 27, 2343-2356.	4.9	39
17	Optimization of Ethanol Detection by Automatic Headspace Method for Cellulose Insulation Aging of Oil-immersed Transformers. Polymers, 2020, 12, 1567.	4.5	11
18	Temperature correction to dielectric modulus and activation energy prediction of oil-immersed cellulose insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 956-963.	2.9	53

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19	A modified X-model of the oil-impregnated bushing including non-uniform thermal aging of cellulose insulation. Cellulose, 2020, 27, 4525-4538.	4.9	14
20	Condition prediction for oil-immersed cellulose insulation in field transformer using fitting fingerprint database. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 279-287.	2.9	37
21	A Molecular Dynamics Study of the Generation of Ethanol for Insulating Paper Pyrolysis. Energies, 2020, 13, 265.	3.1	12
22	Evolution of Virtual Water Transfers in China's Provincial Grids and Its Driving Analysis. Energies, 2020, 13, 328.	3.1	6
23	Microscopic reaction mechanism of the production of methanol during the thermal aging of cellulosic insulating paper. Cellulose, 2020, 27, 2455-2467.	4.9	30
24	Correction for Polarization Current Curve of Polymer Insulation Materials in Transformers Considering the Temperature and Moisture Effects. Polymers, 2020, 12, 143.	4.5	4
25	Effect of Temperature on Methanol Equilibrium in Oil-paper Insulation System of Power Transformers. , 2020, , .		0
26	A Fault Diagnosis Model of Power Transformers Based on Dissolved Gas Analysis Features Selection and Improved Krill Herd Algorithm Optimized Support Vector Machine. IEEE Access, 2019, 7, 102803-102811.	4.2	66
27	Optimization of Flue Gas Desulphurization Technologies Based on Cloud Model and Kernel Vector Space Model. IEEE Access, 2019, 7, 90834-90841.	4.2	2
28	A Novel Universal Approach for Temperature Correction on Frequency Domain Spectroscopy Curve of Transformer Polymer Insulation. Polymers, 2019, 11, 1126.	4.5	14
29	A Novel Maintenance Decision Making Model of Power Transformers Based on Reliability and Economy Assessment. IEEE Access, 2019, 7, 28778-28790.	4.2	37
30	Dissolved Gases Forecasting Based on Wavelet Least Squares Support Vector Regression and Imperialist Competition Algorithm for Assessing Incipient Faults of Transformer Polymer Insulation. Polymers, 2019, 11, 85.	4.5	24
31	Aging condition assessment of transformer oil-immersed cellulosic insulation based upon the average activation energy method. Cellulose, 2019, 26, 3891-3908.	4.9	45
32	The 3D $\ddot{I}$†-n-q Analysis of Partial Discharge Detection in Low Pressure Conditions. , 2019, , .		1
33	State evaluation of transformer paper insulation based upon dielectric response characteristic parameters. , 2019, , .		0
34	Microscopic Mechanism of Cellulose Bond Breaking and Bonding Based on Molecular Dynamics Simulation. IEEE Access, 2019, 7, 186193-186200.	4.2	4
35	A Modified Aging Kinetics Model for Aging Condition Prediction of Transformer Polymer Insulation by Employing the Frequency Domain Spectroscopy. Polymers, 2019, 11, 2082.	4.5	11
36	A novel model based on wavelet LS-SVM integrated improved PSO algorithm for forecasting of dissolved gas contents in power transformers. Electric Power Systems Research, 2018, 155, 196-205.	3.6	104

#	ARTICLE	IF	CITATIONS
37	A Novel Fault Diagnosis System on Polymer Insulation of Power Transformers Based on 3-stage GAâ€"SAâ€"SVM OFC Selection and ABCâ€"SVM Classifier. Polymers, 2018, 10, 1096.	4.5	13
38	Applications of Fuzzy Multicriteria Decision Making to Complex Engineering Problems. Advances in Fuzzy Systems, 2018, 2018, 1-3.	0.9	2
39	Feasibility of a universal approach for temperature correction in frequency domain spectroscopy of transformer insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1766-1773.	2.9	22
40	Comparative Investigation on the Performance of Modified System Poles and Traditional System Poles Obtained from PDC Data for Diagnosing the Ageing Condition of Transformer Polymer Insulation Materials. Polymers, 2018, 10, 191.	4.5	11
41	An anomaly identification model for wind turbine state parameters. Journal of Cleaner Production, 2018, 195, 1214-1227.	9.3	33
42	Effectiveness Analysis and Temperature Effect Mechanism on Chemical and Electrical-Based Transformer Insulation Diagnostic Parameters Obtained from PDC Data. Energies, 2018, 11, 146.	3.1	14
43	A Transformer Fault Diagnosis Model Using an Optimal Hybrid Dissolved Gas Analysis Features Subset with Improved Social Group Optimization-Support Vector Machine Classifier. Energies, 2018, 11, 1922.	3.1	29
44	Grey Relational Analysis for Insulation Condition Assessment of Power Transformers Based Upon Conventional Dielectric Response Measurement. Energies, 2017, 10, 1526.	3.1	43
45	Study on Quantitative Correlations between the Ageing Condition of Transformer Cellulose Insulation and the Large Time Constant Obtained from the Extended Debye Model. Energies, 2017, 10, 1842.	3.1	25
46	Understanding and analysis on frequency dielectric parameter for quantitative diagnosis of moisture content in paperâ€"oil insulation system. IET Electric Power Applications, 2015, 9, 213-222.	1.8	28
47	An Integrated Decision-Making Model for Condition Assessment of Power Transformers Using Fuzzy Approach and Evidential Reasoning. IEEE Transactions on Power Delivery, 2011, 26, 1111-1118.	4.3	129