

# Yi Cui

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

986  
citations

516710

16  
h-index

501196

28  
g-index

64  
all docs

64  
docs citations

64  
times ranked

792  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | An Updated Model to Determine the Life Remaining of Transformer Insulation. IEEE Transactions on Power Delivery, 2015, 30, 395-402.   | 4.3 | 82        |
| 2  | Impact of High PV Penetration on the Inter-Area Oscillations in the U.S. Eastern Interconnection. IEEE Access, 2017, 5, 4361-4369.  | 4.2 | 72        |
| 3  | A Distribution Level Wide Area Monitoring System for the Electric Power Grid—FNET/GridEye. IEEE Access, 2017, 5, 2329-2338.   | 4.2 | 71        |
| 4  | Moisture-Dependent Thermal Modelling of Power Transformer. IEEE Transactions on Power Delivery, 2016, 31, 2140-2150.  | 4.3 | 51        |
| 5  | Source Location Identification of Distribution-Level Electric Network Frequency Signals at Multiple Geographic Scales. IEEE Access, 2017, 5, 11166-11175.   | 4.2 | 49        |
| 6  | An Adaptive PV Frequency Control Strategy Based on Real-Time Inertia Estimation. IEEE Transactions on Smart Grid, 2021, 12, 2355-2364.  | 9.0 | 45        |
| 7  | 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        |
| 8  | A New Testing Method for the Dielectric Response of Oil-Immersed Transformer. IEEE Transactions on Industrial Electronics, 2020, 67, 10833-10843.   | 7.9 | 35        |
| 9  | Investigation of feature selection techniques for improving efficiency of power transformer condition assessment. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 836-844.            | 2.9 | 33        |
| 10 | Numerical and experimental validation of variation of power transformers' thermal time constants with load factor. Applied Thermal Engineering, 2017, 126, 939-948.   | 6.0 | 33        |
| 11 | Spatio-Temporal Characterization of Synchrophasor Data Against Spoofing Attacks in Smart Grids. IEEE Transactions on Smart Grid, 2019, 10, 5807-5818.   | 9.0 | 31        |
| 12 | GPS signal loss in the wide area monitoring system: Prevalence, impact, and solution. Electric Power Systems Research, 2017, 147, 254-262.  | 3.6 | 28        |
| 13 | A Review on Artificial Intelligence for Grid Stability Assessment. , 2020, , .  |     | 28        |
| 14 | Effects of thermal aging on moisture diffusion in insulation paper immersed with mineral oil. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1888-1896.                              | 2.9 | 27        |
| 15 | A Measurement Source Authentication Methodology for Power System Cyber Security Enhancement. IEEE Transactions on Smart Grid, 2018, 9, 3914-3916.   | 9.0 | 26        |
| 16 | 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        |
| 17 | Nonintrusive Inspection of Moisture Damp in Compositated Insulation Structure Based on Terahertz Technology. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.                          | 4.7 | 22        |
| 18 | Multi-physics modelling approach for investigation of moisture dynamics in power transformers. IET Generation, Transmission and Distribution, 2016, 10, 1993-2001.  | 2.5 | 16        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Effects of thermal aging on moisture equilibrium in oil-paper insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 2340-2348.  | 2.9 | 15        |
| 20 | A Diagnostic Method for Moisture Intrusion Fault in OIP Bushing. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7072-7081.   | 4.7 | 15        |
| 21 | Realizing multifractality of smart meter data for household characteristic prediction. International Journal of Electrical Power and Energy Systems, 2022, 139, 108003.   | 5.5 | 15        |
| 22 | Oil exponent thermal modelling for traction transformer under multiple overloads. IET Generation, Transmission and Distribution, 2018, 12, 5982-5989.   | 2.5 | 14        |
| 23 | Study on Characterization of Electrical Contact between Pantograph and Catenary. , 2011, , .  |     | 13        |
| 24 | A Method for Diagnosing the State of Insulation Paper in Traction Transformer Based on FDS Test and CS-DQ Algorithm. IEEE Transactions on Transportation Electrification, 2021, 7, 91-103.  | 7.8 | 13        |
| 25 | Ambient Synchrophasor Measurement Based System Inertia Estimation. , 2020, , .  |     | 13        |
| 26 | 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        |
| 27 | Spatio-Temporal Synchrophasor Data Characterization for Mitigating False Data Injection in Smart Grids. , 2019, , .   |     | 11        |
| 28 | Experimental study of electrical characteristics on pantograph arcing. , 2011, , .  |     | 10        |
| 29 | Inter-area oscillation statistical analysis of the U.S. Eastern interconnection. Journal of Engineering, 2017, 2017, 595-605.   | 1.1 | 10        |
| 30 | Impacts of Power Grid Frequency Deviation on Time Error of Synchronous Electric Clock and Worldwide Power System Practices on Time Error Correction. Energies, 2017, 10, 1283.  | 3.1 | 9         |
| 31 | FNET/GridEye for Future High Renewable Power Grids – Applications Overview. , 2018, , .   |     | 8         |
| 32 | A High-Precision Diagnosis Method for Damp Status of OIP Bushing. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.   | 4.7 | 8         |
| 33 | Source Authentication of Distribution Synchrophasors for Cybersecurity of Microgrids. IEEE Transactions on Smart Grid, 2021, 12, 4577-4580.   | 9.0 | 8         |
| 34 | Particle tracing modelling on moisture dynamics of oil-impregnated transformer. IET Science, Measurement and Technology, 2016, 10, 335-343.   | 1.6 | 7         |
| 35 | FNET/GridEye: A Tool for Situational Awareness of Large Power Interconnection Grids. , 2020, , .  |     | 7         |
| 36 | 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         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Statistical analysis of the FNET/grideye-detected inter-area oscillations in Eastern Interconnection (EI). , 2017, , .  |     | 6         |
| 38 | Exploiting Spatial Signatures of Power ENF Signal for Measurement Source Authentication. , 2018, , .  |     | 6         |
| 39 | Recent application examples of FNET/GridEye. , 2018, , .  |     | 6         |
| 40 | Study of variability metrics for solar irradiance and photovoltaic output. , 2017, , .  |     | 5         |
| 41 | Extraction of Dynamic Frequency Response Characteristics and Modelling of Modern Air Conditioners. IEEE Transactions on Smart Grid, 2021, 12, 897-900.  | 9.0 | 5         |
| 42 | Adding power of artificial intelligence to situational awareness of large interconnections dominated by inverter-based resources. High Voltage, 2021, 6, 924-937.   | 4.7 | 5         |
| 43 | 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         |
| 44 | Data source authentication for wide-area synchrophasor measurements based on spatial signature extraction and quadratic kernel SVM. International Journal of Electrical Power and Energy Systems, 2022, 140, 108083.    | 5.5 | 5         |
| 45 | Power transformer condition assessment using support vector machine with heuristic optimization. , 2013, , .  |     | 4         |
| 46 | Transformer hot spot temperature prediction using a hybrid algorithm of support vector regression and information granulation. , 2015, , .  |     | 4         |
| 47 | Multi-source information fusion for power transformer condition assessment. , 2016, , .   |     | 4         |
| 48 | Multifractal Characterization of Distribution Synchrophasors for Cybersecurity Defense of Smart Grids. IEEE Transactions on Smart Grid, 2022, 13, 1658-1661.  | 9.0 | 4         |
| 49 | Possible mechanism of electrical treeing and breakdown for polyimide nanocomposite film used in inverter-fed motor. , 2010, , .   |     | 3         |
| 50 | Life models of polyimide film under combined thermal and electrical stresses used in inverter-fed traction motor. , 2011, , .   |     | 3         |
| 51 | Finite element method modeled dielectric response for condition evaluation of transformer insulation. , 2013, , .   |     | 3         |
| 52 | Statistical Characterization of Solar Irradiance Variability and Its Effect on Step Voltage Regulators. , 2019, , .   |     | 3         |
| 53 | Simulation system of pantograph arcing. , 2011, , .   |     | 2         |
| 54 | Evolutionary Bayesian fusion for transformers fault detection. , 2016, , .  |     | 2         |

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|----|---|-----|-----------|
| 55 | Understanding the effect of non-uniform ageing on dielectric response of transformer insulation. , 2017, , .  |     | 2         |
| 56 | Experimental Studies on the Estimated Life of Oil-Immersed Insulation Paper in Traction Transformers. IEEE Transactions on Power Delivery, 2021, 36, 2646-2657. | 4.3 | 2         |
| 57 | Time domain diffusion-driven dielectric response model for investigation of moisture dynamics in transformers insulation. , 2015, , .                           |     | 1         |
| 58 | Multi-variable approach for evaluating transformer paper insulation. , 2015, , .  |     | 1         |
| 59 | Hypothesis of Interfacial Charge Transportation in Oil-Paper Insulation for Transformer Moisture Estimation. , 2019, , .  |     | 1         |
| 60 | Multifactor Stress Life Model of Polyimide Film Used in Inverter-Fed Traction Motors. Applied Mechanics and Materials, 0, 121-126, 239-243.                     | 0.2 | 0         |
| 61 | Electrical Treeing Breakdown Properties for Polyimide Nanocomposite Film in Inverter-Fed Motors. Advanced Materials Research, 0, 455-456, 553-558.              | 0.3 | 0         |
| 62 | Finite Element Analysis of Temperature Field of Traction Motor. Applied Mechanics and Materials, 0, 189, 461-464.   | 0.2 | 0         |
| 63 | A diffusion-driven model for investigating moisture effects on dielectric response measurement of transformer insulation. , 2014, , .                           |     | 0         |
| 64 | PDTools: A toolbox of partial discharge (PD) signal analysis for transformer condition assessment. , 2017, , .  |     | 0         |