

# Arpan Kumar Pradhan

## List of Publications by Year in descending order

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Temperature Compensation of Frequency Domain Spectroscopy Measurement for Condition Assessment of Oil-Paper Insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, 29, 255-263.	2.9	11
2	Estimation of Moisture Content in XLPE Cable Insulation Using Electric Modulus. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, 29, 1030-1037.	2.9	3
3	Condition Monitoring of Overhead Polymeric Insulators Employing Hyperbolic Window Stockwell Transform of Surface Leakage Current Signals. IEEE Sensors Journal, 2021, 21, 10957-10964.	4.7	12
4	Investigation of Dielectric Properties of TiO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> nanofluids by Frequency Domain Spectroscopy at Different Temperatures. Journal of Molecular Liquids, 2021, 330, 115642.	4.9	20
5	Estimation of Moisture Content in Oil-impregnated Pressboard through Analyzing Dielectric Response Current under Switching Impulse. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 938-945.	2.9	12
6	A New Approach to Estimate Activation Energy of Oil-impregnated Pressboard Stressed under Switching Impulse at Different Temperatures. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 1162-1170.	2.9	1
7	Estimation of Contamination Level of Overhead Insulators Based on Surface Leakage Current Employing Detrended Fluctuation Analysis. IEEE Transactions on Industrial Electronics, 2020, 67, 5729-5736.	7.9	20
8	Estimation of Conductivity at Reduced Time for Sensing Moisture Content of Oil-Paper Insulation. IEEE Sensors Journal, 2020, 20, 12999-13006.	4.7	16
9	Estimation of Moisture Content in XLPE Insulation in Medium Voltage Cable by Frequency Domain Spectroscopy. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 1811-1819.	2.9	10
10	Mathematical Morphology aided Random Forest Classifier based High Voltage Porcelain Insulator Contamination level Classification. , 2020, , .		4
11	A Non-Linear Model for Sensing Moisture Content in Transformers at Reduced Time. IEEE Sensors Journal, 2019, 19, 4639-4646.	4.7	11
12	Influence of temperature on interfacial charge of power transformer insulation. IET Science, Measurement and Technology, 2019, 13, 1059-1067.	1.6	5
13	S-Transform Aided Random Forest Based PD Location Detection Employing Signature of Optical Sensor. IEEE Transactions on Power Delivery, 2019, 34, 1261-1268.	4.3	16
14	Diagnosis of Power Quality Events Based on Detrended Fluctuation Analysis. IEEE Transactions on Industrial Electronics, 2018, 65, 7322-7331.	7.9	42
15	Conductivity Estimation for Reliable Assessment of Power Transformer Insulation at Reduced Time. , 2018, , .		1
16	Reduction of time domain insulation response measurement duration for fast and effective diagnosis of power transformer. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1932-1940.	2.9	17
17	Earthing grid designs for heterogeneous soil structures in hilly regions using current simulation method. IET Generation, Transmission and Distribution, 2018, 12, 3021-3027.	2.5	4
18	Estimation of paper moisture in transformer insulation employing dielectric spectroscopy data. IET Science, Measurement and Technology, 2018, 12, 536-541.	1.6	13

#	ARTICLE	IF	CITATIONS
19	Screening Length in Doping Superlattices. <i>Materials Focus</i> , 2018, 7, 405-412.	0.4	1
20	A modified Maxwell model for modeling dielectric response of oil-paper insulation affected by radial and axial temperature gradients. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017, 24, 1000-1009.	2.9	9
21	A method to estimate activation energy of power transformer insulation using time domain spectroscopy data. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017, 24, 3245-3253.	2.9	19
22	Reducing frequency domain spectroscopy measurement time for condition monitoring of transformer oilâ€paper insulation using nonâ€sinusoidal excitations. <i>IET Science, Measurement and Technology</i> , 2017, 11, 204-212.	1.6	16
23	Condition assessment of various regions within nonâ€uniformly aged cellulosic insulation of power transformer using modified Debye model. <i>IET Science, Measurement and Technology</i> , 2017, 11, 939-947.	1.6	11
24	Effect of measurement temperature on power transformer insulation diagnosis using frequencyâ€domain spectroscopy. <i>IET Science, Measurement and Technology</i> , 2017, 11, 773-779.	1.6	27
25	Effect of temperature on condition assessment of oil-paper insulation using polarization-depolarization current. , 2016, , .		4
26	Determination of optimized slope of triangular excitation for condition assessment of oil-paper insulation by frequency domain spectroscopy. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016, 23, 1303-1312.	2.9	19
27	Condition assessment of outdoor porcelain insulator based on dielectric dissipation factor evaluated from nonâ€linear equivalent circuit. <i>IET Science, Measurement and Technology</i> , 2016, 10, 866-873.	1.6	12
28	Time growing frequency sweep signal based insulation condition monitoring in frequency domain spectroscopy. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016, 23, 1898-1906.	2.9	9
29	Estimation of dielectric dissipation factor of cellulosic parts in oil-paper insulation by frequency domain spectroscopy. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016, 23, 2720-2729.	2.9	10
30	Estimation of damping resistor in mechanically switched capacitor with damping network at different tuning frequencies during switching. , 2015, , .		2
31	Condition assessment of oil-paper insulation used in power transformer based on polarization energy. , 2015, , .		0
32	A comparative study on leakage current harmonics of porcelain disc insulator contaminated with NaCl and KCl. , 2015, , .		9
33	Estimation of paper moisture content based on dielectric dissipation factor of oil-paper insulation under non-sinusoidal excitations. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015, 22, 822-830.	2.9	37
34	Non-linear modeling of oil-paper insulation for condition assessment using non-sinusoidal excitation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015, 22, 2165-2175.	2.9	13
35	An advanced technique for frequency domain spectroscopy of oil-paper insulation at reduced time using triangular excitation. , 2015, , .		4
36	Effect of temperature on frequency dependent dielectric parameters of oil-paper insulation under non-sinusoidal excitation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2014, 21, 653-661.	2.9	33

#	ARTICLE	IF	CITATIONS
37	Frequency domain spectroscopy of oil-paper insulation under sinusoidal and square wave excitations. , 2013, , .		0
38	Temperature and Frequency dependence of dielectric parameters of Oil-paper insulation under sinusoidal and square wave excitations. , 2013, , .		0
39	Correlation of dielectric model parameters with experimental results based on PDC, RV and loss factor measurements for high voltage capacitors. International Journal of Power and Energy Conversion, 2013, 4, 304.	0.3	0
40	Frequency domain dielectric spectroscopy using Triangular waveform. , 2012, , .		2
41	Comparative study on the effect of temperature on frequency domain spectroscopy results under sinusoidal and triangular excitation. , 2012, , .		1