

# Luiz Meyer

## List of Publications by Year in descending order

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46  
papers

915  
citations

471477

17  
h-index

713444

21  
g-index

46  
all docs

46  
docs citations

46  
times ranked

473  
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of inorganic fillers in silicone rubber for outdoor insulation alumina tri-hydrate or silica. IEEE Electrical Insulation Magazine, 2004, 20, 13-21.	0.8	186
2	Thermal conductivity of filled silicone rubber and its relationship to erosion resistance in the inclined plane test. IEEE Transactions on Dielectrics and Electrical Insulation, 2004, 11, 620-630.	2.9	121
3	Correlation of damage, dry band arcing energy, and temperature in inclined plane testing of silicone rubber for outdoor insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2004, 11, 224-232.	2.9	49
4	Optimized Ensemble Extreme Learning Machine for Classification of Electrical Insulators Conditions. IEEE Transactions on Industrial Electronics, 2020, 67, 5170-5178.	7.9	48
5	Electrical Insulator Fault Forecasting Based on a Wavelet Neuro-Fuzzy System. Energies, 2020, 13, 484.	3.1	45
6	Echo state network applied for classification of medium voltage insulators. International Journal of Electrical Power and Energy Systems, 2022, 134, 107336.	5.5	44
7	RTV silicone rubber pre-coated ceramic insulators for transmission lines. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 237-244.	2.9	42
8	Novel technique to evaluate the erosion resistance of silicone rubber composites for high voltage outdoor insulation using infrared laser erosion. IEEE Transactions on Dielectrics and Electrical Insulation, 2005, , 1201-1208.	2.9	40
9	Fault detection in insulators based on ultrasonic signal processing using a hybrid deep learning technique. IET Science, Measurement and Technology, 2020, 14, 953-961.	1.6	40
10	A Study of Multilayer Perceptron Networks Applied to Classification of Ceramic Insulators Using Ultrasound. Applied Sciences (Switzerland), 2021, 11, 1592.	2.5	37
11	Analysis of training techniques of ANN for classification of insulators in electrical power systems. IET Generation, Transmission and Distribution, 2020, 14, 1591-1597.	2.5	34
12	Fault diagnosis of insulators from ultrasound detection using neural networks. Journal of Intelligent and Fuzzy Systems, 2019, 37, 6655-6664.	1.4	31
13	Tools for Measuring Energy Sustainability: A Comparative Review. Energies, 2020, 13, 2366.	3.1	31
14	Comparison of artificial intelligence techniques to failure prediction in contaminated insulators based on leakage current. Journal of Intelligent and Fuzzy Systems, 2022, 42, 3285-3298.	1.4	27
15	Diagnostic of Insulators of Conventional Grid Through LabVIEW Analysis of FFT Signal Generated from Ultrasound Detector. IEEE Latin America Transactions, 2017, 15, 884-889.	1.6	26
16	Analysis of the Ultrasonic Signal in Polymeric Contaminated Insulators Through Ensemble Learning Methods. IEEE Access, 2022, 10, 33980-33991.	4.2	26
17	Analysis of the Electric Field in Porcelain Pin-Type Insulators via Finite Elements Software. IEEE Latin America Transactions, 2018, 16, 2505-2512.	1.6	22
18	A study of the correlation of leakage current, humidity and temperature of 25 kV insulators in urban and rural areas. , 2011, , .		12

#	ARTICLE	IF	CITATIONS
19	Experience with salt-fog and inclined-plane tests for aging polymeric insulators and materials. IEEE Electrical Insulation Magazine, 2010, 26, 42-50.	0.8	10
20	Study of the correlation between weather conditions and protection trips in a 230 kV transmission line in southern Brazil. , 2012, , .		7
21	Mathematical model for prediction of the leakage current on distribution insulators of 25 kV class. , 2017, , .		6
22	A practical application of an analytical method for modeling power transmission lines. , 2017, , .		5
23	Inclined Plane Test for Erosion of Polymeric Insulators under AC and DC Voltages. IEEE Latin America Transactions, 2020, 18, 1455-1461.	1.6	5
24	A practical approach for detection of incipient failure of ceramic insulators. , 2013, , .		4
25	Salt fog testing of glass insulators with different surface conditions. , 2013, , .		3
26	Radiometric monitoring applied in the evaluation performance of power circuit breakers. , 2015, , .		3
27	Analysis of the Behavior of the 5 <sup>th</sup> Harmonic over Power Transmission Lines. , 2018, , .		3
28	Estimating erosion on polymeric materials using a laser based model. , 0, , .		2
29	Use of Nanosilica in Silicone Rubber Coatings for Ceramic Insulators in Coastal Areas - Field Results. Electrical Insulation, IEEE International Symposium on, 2008, , .	0.0	1
30	An analysis of the performance of surge suppression devices applying the TLM method. , 2012, , .		1
31	A model for the analysis of overvoltage in power distribution network including the TLM method. , 2013, , .		1
32	Accelerated aging of so <sub>2</sub> switchgear seals. IEEE Electrical Insulation Magazine, 2016, 32, 21-27.	0.8	1
33	The Experience with the Use of RTV to Mitigate Line Outages in Southern Brazil. , 2018, , .		1
34	Analysis of the Behavior of the 3rd Harmonic over Power Transmission Lines. , 2019, , .		1
35	Analysis of the overvoltage in the power distribution networks using two models of the grounding resistance: The traditional model with constant resistance and considering a transient resistance. , 2010, , .		0
36	An analysis of the overvoltage in the secondary network, considering a transient grounding resistance.. , 2010, , .		0

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37	Study of the performance of 25kV insulators under various weather conditions. , 2011, , .		0
38	An Analysis of Correlation between Meteorological Conditions and the Protection Trips in a 230 kV Transmission Line. , 2012, , .		0
39	A combined model of the ATP software and TLM method for the analysis of overvoltage in power distribution network. , 2013, , .		0
40	Coupling Transmission Lines for Wave-Shape Adjust in High-Voltage Surge Tests. IEEE Transactions on Industry Applications, 2013, 49, 2409-2413.	4.9	0
41	Dynamic analysis of a telecommunication station grounding system, applying the TLM method. , 2013, , .		0
42	SF <sub>6</sub> contaminated by SO <sub>2</sub> : Dielectric strength and influence on sealing materials. , 2014, , .		0
43	An analysis of the performance of power circuit breakers using a non-invasive system. , 2016, , .		0
44	A tool for analysis of fault location in transmission lines based in estimated transients. , 2016, , .		0
45	An analysis of the performance of power circuit breakers using the modelling of electric arc and a radiometric system. , 2017, , .		0
46	Design of a Control System Card for Frequency Inverter in FPGA. Advances in Intelligent Systems and Computing, 2018, , 421-431.	0.6	0