Journal articles published by High Voltage Research Group

Sl. No.	Journal Details
1	Joyce Jacob,P. Preetha and Sindhu T K, "Stability Analysis and Characterization of Natural Ester Nanofluids for Transformers," IEEE Transactions on Dielectrics and Electrical Insulation. , Volume: 27 , Issue: 5 , October 2020, pp. 1715 - 1723.
2	Avinash Nelson Asokan, P. Preetha and K. Sunitha, "Statistical Analysis of Electric Field Distribution in Insulating Nanodielectrics," IEEE Transactions on Dielectrics and Electrical Insulation. , Volume: 27 , Issue: 2 , April 2020, pp. 549 - 558.
3	Joyce Jacob, Preetha P and Sindhu T K, "Review on natural ester and nanofluids as an alternative to transformer mineral oil", IET nanodielectrics, DOI: 10.1049/iet-nde.2019.0038.Online ISSN 2514-3255, Available online 17 April 2020.
4	Jineeth Joseph and Sindhu. T. K. (2020, April). Development of severity and location indices based condition monitoring scheme for underground cables by impedance spectroscopy, IEEE Transactions on Power Delivery, pp. 1-11.
5	K. Sunitha and M. J. Thomas, "Effect of Soil Conditions on the Electromagnetic Field From an Impulse Radiating Antenna and on the Induced Voltage in a Buried Cable," in IEEE Transactions on Electromagnetic Compatibility, vol. 61, no. 4, pp. 990-997, Aug. 2019.
6	Lekshmi Mohan, Polisetti Naveen Kumar, Sunitha K and Sindhu T K, “Determination of electrical percolation threshold of carbon nanotube based epoxy nanocomposites and its experimental validation”, IET Science Measurement and Technology, August 2019
7	Avinash Nelson Asokan, A. P. Anagha, P. Preetha and K. Sunitha, "Effect of Interphase on Dielectric Relaxation Mechanisms in Epoxy-Alumina Nanocomposite", IEEE Transactions on Dielectrics and Electrical Insulation. Vol. 26, No. 4, August 2019, pp. 1211-1219.
8	G. Shanmugam, S. Kalapati and S. Karakad, "Flashover voltage computation of porcelain insulators under positive polarity lightning impulse voltages," in IET Science, Measurement & Technology, vol. 13, no. 5, pp. 656-661, July 2019. (DOI: 10.1049/iet-smt.2018.5605; Impact Factor: 1.895).
9	Jineeth Joseph, Anagha E R and Sindhu T. K, “Modeling and experimental validation of electromagnetic wave propagation due to PDs in XLPE cables”, IET. Science Measurement and Technology., vol. 13, no. 5, pp. 692-699, Jul. 2019.
10	Nisha P. V. , Sindhu T. K.and Elizabeth P. Cheriyan, " Analysis of EMI in a Variable Frequency Drive through Modelling and Experimental Validation ," Journal of Electrical Systems, Vol.15(2),June2019,pp.222-236.
11	Mital Kumar Ladani and Preetha P., "Reduction of Electric Field Stresson the Surface Contour and at the Triple Junction in UHVAC GIS by Spacer Design optimization", International Journal of Emerging Electric Power Systems, 20(2), Jun. 2019, doi:10.1515/ijeeps-2018-0160.
12	Jineeth Joseph, Shilpa Mohan and Sindhu. T. K, ”Numerical modeling simulation and experimental validation of partial discharge in cross linked polyethylene cables”, IET. Science Measurement and Technology, Vol. 13, no. 2, pp. 309-317, February. 2019.
13	G. Shanmugam and S. Karakkad, "Influence of the insulator geometry on the streamer propagation characteristics in polymeric insulators under positive polarity lightning impulse voltages," in IET Science, Measurement & Technology, vol. 12, no. 8, pp. 1082- 1088, Nov 2018. (DOI: 10.1049/iet-smt.2018.5028; Impact Factor: 1.895).
14	A.P.Anagha and K Sunitha," Influence of Field Spacer Geometry on the Performance of a High Voltage Coaxial Type Transmission Line with Solid Dielectric Spacer in Vacuum ", Engineering, Technology & Applied Science Research, Vol. 7, No. 3, 2017.
15	Ram S Narayan, Shilpa Mohan and K Sunitha, "Simulative Study into the Development of a Hybrid HVDC System through a Comparative Research with HVAC: a Futuristic Approach" Engineering, Technology & Applied Science Research, Vol. 7, No. 3, 2017.
16	Vinitha Krishna and Sunitha K, " Effect of the Time-varying Soil Resistivity on the Performance of the Protective Devices under the Electromagnetic Fields from Lightning ", Indian Journal of Science and Technology , Vol. 10, No.24, 2017
17	Dhanish Mon N., Shibin S, Praveen kumar S, Venkata Jeevan T. and Sunitha K , " Effect of the concentration of nano particles on the dielectric behavior of a transformer oil " International Journal of Applied Engineering Research , Volume 12, Number 9 (2017)
18	Siny Paul, Sindhu T K, Effect of filler particle size on electric energy density of epoxy- aluminum nanocomposite, IEEE transactions on Dielectrics and Electrical Insulation, Vol. 23, No.5, pp 2786-2794, October 2016.

19	Sony Kurian , Sindhu T. Krishnan, Elizabeth P. Cheriyan, "Real time implementation of artificial neural networks-based controller for battery storage supported wind electric generation", IET Gener. Transm. Distrib., Vol. 9, Iss. 10 2015.
20	Siny Paul, Sindhu T K, "A Neural Network Model for Predicting the Dielectric Permittivity of Epoxy Aluminum Nanocomposite and its Experimental Validation", IEEE Components, Packaging and Manufacturing Technology Society, Vol. 5, No. 8, 2015.
21	Siny Paul and Sindhu T K, “Synthesis and Characterization of Epoxy-Aluminum Nanocomposites for Energy Storage Applications”, IEEE transactions on dielectrics and electrical insulation, Vol.21, No.5, 2014.
22	Siny Paul and Sindhu T K, "Development of Epoxy-Aluminum Nanocomposite Dielectric Material with low filler concentration for Embedded Capacitor Applications", IEEE transactions on dielectrics and electrical insulation, Vol. 21, No. 2, 2014.
23	Nisha P. V. , Sindhu T. K.and Elizabeth P. Cheriyan," Simulation of Electromagnetic Interference and its Mitigation in an Induction Motor Drive," International Review on Modelling and Simulations, Vol.6(5), Oct 2013, pp.1458-1467