

Joy Thomas Meledath

List of Publications by Year in descending order

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60
papers

1,797
citations

471509

17
h-index

377865

34
g-index

60
all docs

60
docs citations

60
times ranked

1265
citing authors

#	ARTICLE	IF	CITATIONS
1	Dielectric properties of epoxy nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2008, 15, 12-23.	2.9	563
2	Permittivity and tan delta characteristics of epoxy nanocomposites in the frequency range of 1 MHz-1 GHz. IEEE Transactions on Dielectrics and Electrical Insulation, 2008, 15, 2-11.	2.9	152
3	Influence of filler loading on dielectric properties of epoxy-ZnO nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2009, 16, 531-542.	2.9	115
4	AC breakdown characteristics of epoxy nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 1526-1534.	2.9	99
5	Tracking and erosion of silicone rubber nanocomposites under DC voltages of both polarities. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 91-98.	2.9	91
6	Erosion resistance of alumina-filled silicone rubber nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2010, 17, 615-624.	2.9	87
7	Corona aging studies on silicone rubber nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2010, 17, 625-634.	2.9	83
8	Partial discharge resistant characteristics of epoxy nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 264-274.	2.9	83
9	Electrical treeing and the associated PD characteristics in LDPE nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 697-704.	2.9	64
10	Complex permittivity characteristics of epoxy nanocomposites at low frequencies. IEEE Transactions on Dielectrics and Electrical Insulation, 2010, 17, 1249-1258.	2.9	44
11	Long-term accelerated weathering of outdoor silicone rubber insulators. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 418-424.	2.9	42
12	Surface degradation of silicone rubber nanocomposites due to DC corona discharge. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 1175-1182.	2.9	38
13	Electrothermal ageing of epoxy nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 2081-2089.	2.9	34
14	Effect of morphology on electrical treeing in low density polyethylene nanocomposites. IET Science, Measurement and Technology, 2014, 8, 60-68.	1.6	29
15	Dielectric Properties of Epoxy- Al_2O_3 Nanocomposite System for Packaging Applications. IEEE Transactions on Components and Packaging Technologies, 2010, 33, 373-385.	1.3	26
16	Polymer composite/nanocomposite processing and its effect on the electrical properties. , 2006, , .		24
17	Disconnecter switching induced transient voltage and radiated fields in a 1100 kV gas insulated substation. Electric Power Systems Research, 2018, 161, 86-94.	3.6	23
18	Electromagnetic Shielding Effectiveness of Layered Polymer Nanocomposites. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 376-384.	2.2	20

#	ARTICLE	IF	CITATIONS
19	Studies on the Tracking and Erosion Resistance of RTV Silicone Rubber Nanocomposite. , 2008, , .		17
20	Reduction of Permittivity in Epoxy Nanocomposites at Low Nano-filler Loadings. , 2008, , .		15
21	Shielding Effectiveness of the Gas-Insulated Bus Duct for Transient EM Fields Generated in a GIS During Switching Operations. IEEE Transactions on Power Delivery, 2008, 23, 1946-1953.	4.3	14
22	Computation of audible noise from a 1200 kV UHV power transmission line. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 974-978.	2.9	13
23	Long-term Accelerated Multistress Aging of Composite Outdoor Polymeric Insulators. , 2007, , .		11
24	Interaction of high power electromagnetic pulses with power cables and electronic systems. , 2016, , .		11
25	Electrical Discharge Resistant Characteristics of Epoxy Nanocomposites. , 2008, , .		8
26	Design of a Compulsator to Drive a Railgun. IEEE Transactions on Plasma Science, 2017, 45, 1482-1488.	1.3	8
27	Experimental and Computational Studies on the Efficiency of an Induction Coilgun. IEEE Transactions on Plasma Science, 2020, 48, 3392-3400.	1.3	8
28	Electrical characterization of airborne vehicle exhaust plume. IEEE Transactions on Dielectrics and Electrical Insulation, 2009, 16, 325-334.	2.9	6
29	Monte Carlo modelling of percolation and conductivity in carbon filled polymer nanocomposites. IET Science, Measurement and Technology, 2018, 12, 98-105.	1.6	6
30	AC breakdown characteristics of epoxy alumina nanocomposites. , 2010, , .		5
31	Performance analysis of passive compulsators used for EML application with different compensation shield thickness. , 2017, , .		5
32	Effect of Soil Conditions on the Electromagnetic Field From an Impulse Radiating Antenna and on the Induced Voltage in a Buried Cable. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 990-997.	2.2	5
33	Design of a Pulsed Alternator to Drive a Single-Stage Induction Coilgun. IEEE Transactions on Plasma Science, 2020, 48, 3401-3408.	1.3	5
34	Tracking and erosion resistance of silicone rubber nanocomposites under positive and negative dc voltages. , 2010, , .		4
35	Computational Analysis of a Pulsed Power Source- Based Electromagnetic Manufacturing Process. IEEE Transactions on Plasma Science, 2020, 48, 3342-3349.	1.3	4
36	Developmental Studies on a Two-Stage Coilgun. IEEE Transactions on Plasma Science, 2022, 50, 3318-3325.	1.3	4

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37	Lightning-Induced Current and Voltage on a Rocket in the Presence of Its Trailing Exhaust Plume. IEEE Transactions on Electromagnetic Compatibility, 2010, 52, 117-127.	2.2	3
38	Electromagnetic shielding properties of nano carbon filled silicone rubber composites. , 2015, , .		3
39	Radiation pattern of a hybrid type high altitude electromagnetic pulse (HEMP) simulator. , 2016, , .		3
40	Experimental simulation of low level hybrid electromagnetic pulse (EMP) for vulnerable studies on electronic sytems and cables. , 2016, , .		3
41	Experimental Investigations on the Pulsed Power Switch of a HIRA based UWB System. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 1282-1288.	2.2	3
42	Computation of very fast transient overvoltages (VFTO) in a 1000 kV gas insulated substation. , 2017, , .		3
43	Performance Analysis of Passive Compulsators with Different Field Current Densities used for EML Applications. , 2018, , .		2
44	A New Fabrication Method for Serpentine-Folded Waveguide Slow Wave Structure at \$W\$ -Band. IEEE Transactions on Electron Devices, 2020, 67, 1198-1204.	3.0	2
45	Computational Studies on an Induction Coilgun. , 2021, , .		2
46	Effect of Mutual Magnetic Flux Linkage Between Stages of an Induction Coilgun on Its Performance. IEEE Transactions on Plasma Science, 2022, 50, 2285-2292.	1.3	2
47	Accelerated Multistress Aging of Outdoor Polymeric Insulators. , 2008, , .		1
48	A physical model for inception and propagation of upward lightning leader from a 1200 kV AC power transmission line. , 2014, , .		1
49	Carbon nanofibers based nanocomposites for electromagnetic shielding applications¹. IEEE Electromagnetic Compatibility Magazine, 2016, 5, 77-79.	0.1	1
50	A Novel Technique to Arrest the Armature Capture Effect in an Induction Coilgun. IEEE Transactions on Plasma Science, 2022, , 1-7.	1.3	1
51	Analytical Design of a Novel Clamp-On Type Actuator Coil for Magnetic Pulse Forming of Tubular Structures. IEEE Transactions on Magnetics, 2022, 58, 1-8.	2.1	1
52	Influence of uniformity of the axial magnetic field in a vacuum interrupter on the performance of the contacts. , 2008, , .		0
53	HEMP field coupling with buried power distribution cables. , 2009, , .		0
54	Accelerated weathering of distribution class polymeric insulators. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
55	High Power Microwave coupling with a buried twisted pair cable. , 2011, , .		0
56	Accelerated multistress aging of polymer nanocomposites and its condition monitoring. , 2012, , .		0
57	Experimental investigation on higher order modes in guided wave high altitude electromagnetic pulse (HEMP) Simulator. , 2016, , .		0
58	Leakage electric field analysis of a guided wave NEMP simulator. , 2016, , .		0
59	Performance Analysis of a Self-Excited Passive Compulsator Driving a Railgun With Field Winding Excited by a Secondary Armature. IEEE Transactions on Plasma Science, 2019, 47, 4738-4744.	1.3	0
60	Comparison between the Performance Analysis of Passive Compulsators with Slotted and Slotless Armature Windings Driving a Railgun. International Journal of Emerging Electric Power Systems, 2019, 20, .	0.8	0