

Joy Thomas Meledath

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5959019/publications.pdf>

Version: 2024-02-01

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 | A Novel Technique to Arrest the Armature Capture Effect in an Induction Coilgun. IEEE Transactions on Plasma Science, 2022, , 1-7. | 1.3 | 1 |
| 2 | Developmental Studies on a Two-Stage Coilgun. IEEE Transactions on Plasma Science, 2022, 50, 3318-3325. | 1.3 | 4 |
| 3 | 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 |
| 4 | 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 |
| 5 | Computational Studies on an Induction Coilgun. , 2021, , . | | 2 |
| 6 | Computational Analysis of a Pulsed Power Source- Based Electromagnetic Manufacturing Process. IEEE Transactions on Plasma Science, 2020, 48, 3342-3349. | 1.3 | 4 |
| 7 | Experimental and Computational Studies on the Efficiency of an Induction Coilgun. IEEE Transactions on Plasma Science, 2020, 48, 3392-3400. | 1.3 | 8 |
| 8 | Design of a Pulsed Alternator to Drive a Single-Stage Induction Coilgun. IEEE Transactions on Plasma Science, 2020, 48, 3401-3408. | 1.3 | 5 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | Electromagnetic Shielding Effectiveness of Layered Polymer Nanocomposites. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 376-384. | 2.2 | 20 |
| 15 | Monte Carlo modelling of percolation and conductivity in carbon filled polymer nanocomposites. IET Science, Measurement and Technology, 2018, 12, 98-105. | 1.6 | 6 |
| 16 | Performance Analysis of Passive Compulsators with Different Field Current Densities used for EML Applications. , 2018, , . | | 2 |
| 17 | Design of a Compulsator to Drive a Railgun. IEEE Transactions on Plasma Science, 2017, 45, 1482-1488. | 1.3 | 8 |
| 18 | Computation of very fast transient overvoltages (VFTO) in a 1000 kV gas insulated substation. , 2017, , . | | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Performance analysis of passive compulsators used for EML application with different compensation shield thickness. , 2017, , . | | 5 |
| 20 | Interaction of high power electromagnetic pulses with power cables and electronic systems. , 2016, , . | | 11 |
| 21 | Radiation pattern of a hybrid type high altitude electromagnetic pulse (HEMP) simulator. , 2016, , . | | 3 |
| 22 | Experimental investigation on higher order modes in guided wave high altitude electromagnetic pulse (HEMP) Simulator. , 2016, , . | | 0 |
| 23 | Experimental simulation of low level hybrid electromagnetic pulse (EMP) for vulnerable studies on electronic sytems and cables. , 2016, , . | | 3 |
| 24 | Leakage electric field analysis of a guided wave NEMP simulator. , 2016, , . | | 0 |
| 25 | 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 |
| 26 | 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 |
| 27 | Carbon nanofibers based nanocomposites for electromagnetic shielding applications¹. IEEE Electromagnetic Compatibility Magazine, 2016, 5, 77-79. | 0.1 | 1 |
| 28 | Electromagnetic shielding properties of nano carbon filled silicone rubber composites. , 2015, , . | | 3 |
| 29 | Effect of morphology on electrical treeing in low density polyethylene nanocomposites. IET Science, Measurement and Technology, 2014, 8, 60-68. | 1.6 | 29 |
| 30 | A physical model for inception and propagation of upward lightning leader from a 1200 kV AC power transmission line. , 2014, , . | | 1 |
| 31 | 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 |
| 32 | 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 |
| 33 | Electrothermal ageing of epoxy nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 2081-2089. | 2.9 | 34 |
| 34 | Accelerated multistress aging of polymer nanocomposites and its condition monitoring. , 2012, , . | | 0 |
| 35 | Electrical treeing and the associated PD characteristics in LDPE nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 697-704. | 2.9 | 64 |
| 36 | AC breakdown characteristics of epoxy nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 1526-1534. | 2.9 | 99 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Long-term accelerated weathering of outdoor silicone rubber insulators. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 418-424. | 2.9 | 42 |
| 38 | Partial discharge resistant characteristics of epoxy nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 264-274. | 2.9 | 83 |
| 39 | High Power Microwave coupling with a buried twisted pair cable. , 2011, , . | | 0 |
| 40 | 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 |
| 41 | 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 |
| 42 | Complex permittivity characteristics of epoxy nanocomposites at low frequencies. IEEE Transactions on Dielectrics and Electrical Insulation, 2010, 17, 1249-1258. | 2.9 | 44 |
| 43 | Accelerated weathering of distribution class polymeric insulators. , 2010, , . | | 0 |
| 44 | AC breakdown characteristics of epoxy alumina nanocomposites. , 2010, , . | | 5 |
| 45 | Erosion resistance of alumina-filled silicone rubber nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2010, 17, 615-624. | 2.9 | 87 |
| 46 | Corona aging studies on silicone rubber nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2010, 17, 625-634. | 2.9 | 83 |
| 47 | Tracking and erosion resistance of silicone rubber nanocomposites under positive and negative dc voltages. , 2010, , . | | 4 |
| 48 | Electrical characterization of airborne vehicle exhaust plume. IEEE Transactions on Dielectrics and Electrical Insulation, 2009, 16, 325-334. | 2.9 | 6 |
| 49 | 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 |
| 50 | HEMP field coupling with buried power distribution cables. , 2009, , . | | 0 |
| 51 | 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 |
| 52 | 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 |
| 53 | Influence of uniformity of the axial magnetic field in a vacuum interrupter on the performance of the contacts. , 2008, , . | | 0 |
| 54 | Electrical Discharge Resistant Characteristics of Epoxy Nanocomposites. , 2008, , . | | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Dielectric properties of epoxy nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2008, 15, 12-23. | 2.9 | 563 |
| 56 | Studies on the Tracking and Erosion Resistance of RTV Silicone Rubber Nanocomposite. , 2008, , . | | 17 |
| 57 | Reduction of Permittivity in Epoxy Nanocomposites at Low Nano-filler Loadings. , 2008, , . | | 15 |
| 58 | Accelerated Multistress Aging of Outdoor Polymeric Insulators. , 2008, , . | | 1 |
| 59 | Long-term Accelerated Multistress Aging of Composite Outdoor Polymeric Insulators. , 2007, , . | | 11 |
| 60 | Polymer composite/nanocomposite processing and its effect on the electrical properties. , 2006, , . | | 24 |