

Ramanujam Sarathi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

243
papers

2,207
citations

22
h-index

35
g-index

298
ext. papers

2,755
ext. citations

2.4
avg, IF

5.51
L-index

#	Paper	IF	Citations
243	Understanding the dielectric properties and electromagnetic shielding efficiency of zirconia filled epoxy-MWCNT composites. <i>Engineering Research Express</i> , 2022 , 4, 015008	0.9	1
242	Impact of DBDS and Silver Sulfide on the Performance of Thermally Aged Mineral oil Impregnated Pressboard Material. <i>IEEE Access</i> , 2022 , 10, 9618-9627	3.5	0
241	Understanding the Impact of Lime Stabilization on Expansive Soil for Grounding and Analysis Adopting LIBS. <i>IEEE Access</i> , 2022 , 1-1	3.5	
240	Impact of surfactants on the electrical and rheological aspects of silica based synthetic ester nanofluids. <i>IEEE Access</i> , 2022 , 1-1	3.5	1
239	Fuzzy based condition monitoring tool for realtime analysis of synthetic ester fluid as transformer insulant. <i>IEEE Access</i> , 2022 , 1-1	3.5	1
238	Investigation on the Electrical and Rheological properties of AlN based Synthetic Ester Nanofluids. <i>IEEE Access</i> , 2022 , 1-1	3.5	1
237	Modeling of Spinning Disc System for Charging Tendency of Ester-Based TiO ₂ Nanofluids Along with its Interfacial Zone. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2022 , 1-1	2.3	
236	Influence of Stand-Off Distance and Sunlight on Detection of Pollution Deposits on Silicone Rubber Insulators Adopting Remote LIBS Analysis. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	2
235	Planar Ultrawideband Circularly Polarized Cosine Slot Archimedean Spiral Antenna for Partial Discharge Detection. <i>IEEE Access</i> , 2022 , 1-1	3.5	3
234	Ageing impact on the surface condition of silicone rubber micro nanocomposites adopting AFM studies. <i>Journal of Polymer Research</i> , 2022 , 29, 1	2.7	2
233	Investigation of the corona discharge activity in liquid nitrogen under transient voltage conditions using fluorescent fiber sensor. <i>Cryogenics</i> , 2022 , 124, 103456	1.8	
232	Impact of Magnetic Field on Corona Discharge Behavior of Mineral Oil under AC Voltage. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2022 , 1-1	2.3	3
231	Study of Ultra High Frequency Measurement Techniques for Online Monitoring of Partial Discharges in High Voltage Systems. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	2
230	Effect of Zeolite Addition on Partial Discharge and Dielectric Behavior of Thermally Aged Synthetic Ester Fluid Under External Magnetic Field. <i>IEEE Access</i> , 2022 , 10, 46670-46677	3.5	1
229	Experimental Study and ANN Analysis of Rheological Behavior of Mineral Oil-based SiO ₂ Nanofluids. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2022 , 1-1	2.3	0
228	Impact of Benzotriazole on the Degradation Performance of Ester Fluid 2021 ,		1
227	Double Dielectric Barrier Discharge-Assisted Conversion of Biogas to Synthesis Gas. <i>Springer Proceedings in Energy</i> , 2021 , 123-129	0.2	

226	Degradation Assessment of Ester Liquids 2021 , 85-125		
225	Dielectric Properties of Silica-Based Synthetic Ester Nanofluid 2021 , 273-303		
224	Investigation on Electrical and Thermal Performance of Glass Fiber Reinforced Epoxy/MgO Nanocomposites. <i>Energies</i> , 2021 , 14, 8005	3.1	1
223	Investigation Into Variation of Resistivity and Permittivity of Aqueous Solutions and Soils With Frequency and Current Density. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 1-13	2	2
222	Fluorescent fiber-based identification of incipient discharges in liquid nitrogen. <i>Cryogenics</i> , 2021 , 120, 103376	1.8	2
221	Influence of water ageing on variation in space charge and thermo-mechanical properties of epoxy micro-nano composites. <i>IET Science, Measurement and Technology</i> , 2021 , 15, 44-60	1.5	1
220	Classification of thermal ageing impact of ester fluid-impregnated pressboard material adopting LIBS. <i>High Voltage</i> , 2021 , 6, 655-664	4.1	1
219	Impact of shear mixing time of epoxy-silica nanocomposites on its electrical and mechanical properties. <i>Nano Express</i> , 2021 , 2, 010031	2	1
218	Impact of adding activated bentonite to thermally aged ester-based TiO ₂ nanofluids on insulation performance. <i>IET Nanodielectrics</i> , 2021 , 4, 63-74	2.8	2
217	Classification of Aged Epoxy Micro/Nanocomposites Through PCA- and ANN-Adopted LIBS Analysis. <i>IEEE Transactions on Plasma Science</i> , 2021 , 49, 1088-1096	1.3	5
216	Life Expectancy Estimation of Thermally Aged Cu Contaminant-Diffused Oil Impregnated Pressboard. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2021 , 28, 637-645	2.3	
215	Single step synthesis of WO ₃ nanoparticles by wire explosion process and its photocatalytic behaviour. <i>Nano Express</i> , 2021 , 2, 020014	2	1
214	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2021 , 28, 897-905	2.3	2
213	Use of LIBS technique for identification of type of pollutant and ESDD level on epoxy-alumina nanocomposites using ANN. <i>Measurement Science and Technology</i> , 2021 , 32, 115201	2	3
212	Impact of Salt Fog Aging on Space Charge and Charge Trap-Controlled Mobility Characteristics of Silicone Rubber Micro-nanocomposites. <i>Journal of Electronic Materials</i> , 2021 , 50, 5881-5890	1.9	
211	Effect of nanoclay on mechanical, thermal and morphological properties of silicone rubber and EPDM/silicone rubber hybrid composites. <i>Advances in Materials and Processing Technologies</i> , 2021 , 7, 109-116	0.8	3
210	Fabrication of self-cleaning superhydrophobic silicone rubber insulator through laser texturing. <i>Surface Engineering</i> , 2021 , 37, 308-317	2.6	6
209	Understanding electrical, thermal and mechanical properties of hybrid epoxy nanocomposites. <i>Materials Today: Proceedings</i> , 2021 , 46, 4441-4450	1.4	0

208	Investigation on the thermal properties, space charge and charge trap characteristics of silicone rubber nanomicro composites. <i>Electrical Engineering</i> , 2021 , 103, 1779	1.5	0
207	Numerical Analysis of Partial Discharge Source Localization Using Time of Arrival Measurements and Nonlinear Least Squares Search. <i>Lecture Notes in Mechanical Engineering</i> , 2021 , 261-269	0.4	
206	Fabrication of Dye Sensitized Solar Cells using <i>Ixora Macrothyrsa</i> . <i>Materials Today: Proceedings</i> , 2021 , 47, 2182-2187	1.4	1
205	Modelling the Propagation of Partial Discharge Signals Inside Gas Insulated Transmission Line Sections. <i>Lecture Notes in Mechanical Engineering</i> , 2021 , 203-210	0.4	
204	Investigation on the impact of nano MgO addition on dielectric properties and space charge behavior of epoxy resin AlN nanocomposites. <i>IOP SciNotes</i> , 2021 , 2, 014402	1.2	3
203	Impact of Sunlight and Stand-Off Distance on Detection of Pollution Deposit on Silicone Rubber Insulators Adopting Remote LIBS 2021 ,		1
202	Investigation on Surface Condition of the Corona-Aged Silicone Rubber Nanocomposite Adopting Wavelet and LIBS Technique. <i>IEEE Transactions on Plasma Science</i> , 2021 , 49, 2294-2304	1.3	4
201	Impact of MgO nanofiller-addition on electrical and mechanical properties of glass fiber reinforced epoxy nanocomposites. <i>Journal of Polymer Research</i> , 2021 , 28, 1	2.7	2
200	Anomalous magnetic behavior in Ni80Cr20 nanoparticles prepared by physical and chemical methods. <i>Materials Research Bulletin</i> , 2021 , 141, 111356	5.1	
199	An Ultrawideband Conical Monopole With Radome for Detection of Partial Discharges. <i>IEEE Sensors Journal</i> , 2021 , 21, 18764-18772	4	6
198	Investigation on Impact of Magnetic Field on the Corona Discharge Activity in Punga Oil Using Fluorescent Fiber and UHF Sensor Techniques. <i>IEEE Access</i> , 2021 , 9, 129218-129228	3.5	6
197	Impact of gamma-irradiation on space charge and charge trap characteristics of Al/epoxy nanocomposites. <i>SPE Polymers</i> , 2021 , 2, 38-49	1.1	1
196	Study on water droplet initiated discharges and charge trap characteristics of laser textured silicone rubber nanocomposites. <i>SPE Polymers</i> , 2020 , 1, 139-148	1.1	2
195	Development of Nano-Al Based Highly Metalized Fuel-Rich Propellant for Water Ramjet Propulsion Applications. <i>Propellants, Explosives, Pyrotechnics</i> , 2020 , 45, 1026-1040	1.7	6
194	Investigation on heat transfer characteristics of nano titania added transformer oil with hotspot temperature. <i>Nano Express</i> , 2020 , 1, 010051	2	0
193	Investigation of surface strain by digital image correlation and charge trap characteristics of epoxy alumina nanocomposites. <i>Nano Express</i> , 2020 , 1, 010043	2	1
192	Dynamical aspects of nanoparticle formation by wire explosion process. <i>Nano Express</i> , 2020 , 1, 010049	2	3
191	Study of burning rate characteristics of propellants containing AlMg alloy nanopowder. <i>Nano Express</i> , 2020 , 1, 020007	2	

190	Fluorescence Fiber Based Identification of Partial Discharges in Liquid Nitrogen for High-Temperature Superconducting Power Apparatus 2020 , 4, 1-4		13
189	Some Factors Affecting the Breakdown Strength of Solid Dielectrics: A Short Review. <i>Engineering, Technology & Applied Science Research</i> , 2020 , 10, 5505-5511	1	0
188	Understanding the surface condition of gamma irradiated epoxy alumina nanocomposites adopting wavelets and fractal technique. <i>Nano Express</i> , 2020 , 1, 030003	2	2
187	Dealing with the Size Effect in Insulating Liquids. A Volume Effect, an Area Effect or even a Particle Effect?. <i>Engineering, Technology & Applied Science Research</i> , 2020 , 10, 6231-6236	1	
186	A Short Review of Some of the Factors Affecting the Breakdown Strength of Insulating Oil for Power Transformers. <i>Engineering, Technology & Applied Science Research</i> , 2020 , 10, 5742-5747	1	1
185	Understanding the impact of gamma irradiation of epoxy titania nanocomposites on surface and bulk charge characteristics. <i>Nano Express</i> , 2020 , 1, 010061	2	1
184	Space Charges as Pre-breakdown Phenomena in Solid Dielectrics: A Concise Approach and Some Critical Comments. <i>Engineering, Technology & Applied Science Research</i> , 2020 , 10, 5992-5997	1	0
183	Understanding the impact of space charge variations with UV- and water-aged epoxy alumina nanocomposites adopting pulsed electroacoustic techniques. <i>Micro and Nano Letters</i> , 2020 , 15, 1059-1064 ^{0,9}		1
182	Investigation on electrical, thermal and mechanical properties of thermally aged pressboard impregnated with mixed mineral oil and synthetic ester fluid. <i>IET Science, Measurement and Technology</i> , 2020 , 14, 1029-1036	1.5	
181	Alternative Fluids [with a Particular Emphasis on Vegetable Oils] as Replacements of Transformer Oil: A Concise Review. <i>Engineering, Technology & Applied Science Research</i> , 2020 , 10, 6570-6577	1	1
180	Understanding the thermal ageing performance of epoxy aluminium nitride nanocomposites through space charge studies and by LIBS analysis. <i>IET Science, Measurement and Technology</i> , 2020 , 14, 1069-1076	1.5	1
179	Synthesis of multiphase binary eutectic AlMg alloy-nanoparticles by electrical wire explosion technique for high-energy applications, its characterisation and size-dependent thermodynamic and kinetic study. <i>Journal of Alloys and Compounds</i> , 2020 , 838, 155630	5.7	2
178	Investigation on thermally aged natural ester oil for real-time monitoring and analysis of transformer insulation. <i>High Voltage</i> , 2020 , 5, 209-217	4.1	12
177	Investigation on space charge and charge trap characteristics of gamma-irradiated epoxy micro/nano composites. <i>High Voltage</i> , 2020 , 5, 191-201	4.1	8
176	Dielectric properties of mixed mineral and synthetic ester oil. <i>IET Science, Measurement and Technology</i> , 2020 , 14, 704-714	1.5	2
175	Investigation on space charge and charge trap characteristics of Al epoxy nanocomposites. <i>IET Science, Measurement and Technology</i> , 2020 , 14, 146-156	1.5	9
174	Mechanical, thermal, electrical and crystallographic behaviour of EPDM rubber/clay nanocomposites for out-door insulation applications. <i>Advances in Materials and Processing Technologies</i> , 2020 , 6, 54-74	0.8	6
173	Vacuum ultraviolet laser induced breakdown spectroscopy for detecting sulphur in thermally aged transformer insulation material. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020 , 163, 105730	3.1	4

172	Investigation on the digital image correlation and charge trap characteristics of Al/epoxy nanocomposites. <i>Materials Research Express</i> , 2020 , 7, 025035	1.7	3
171	Investigation on space charge dynamics and mechanical properties of Epoxy Alumina nanocomposites. <i>Materials Research Express</i> , 2020 , 7, 025037	1.7	4
170	Dendrogram based Clustering and Separation of Individual and Simultaneously Active Incipient Discharges in Transformer Insulation 2020 ,		1
169	Development of a Swirl-Induced Rotating Glow Discharge Reactor for CO ₂ Conversion: Fluid Dynamics and Discharge Dynamics Studies. <i>Energy Technology</i> , 2020 , 8, 2000535	3.5	4
168	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020 , 27, 1508-1515	2.3	2
167	Analysis of space charge and charge trap characteristics of gamma irradiated silicone rubber nanocomposites. <i>IET Nanodielectrics</i> , 2020 , 3, 44-52	2.8	4
166	Impact of accelerated aging of epoxy-Ni nanocomposites on space charge variation adopting pulsed electro acoustic technique. <i>SPE Polymers</i> , 2020 , 1, 36-44	1.1	1
165	Investigation on flow electrification of ester-based TiO ₂ nanofluids. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020 , 27, 1492-1500	2.3	13
164	Investigation on the performance of thermally aged natural ester fluid impregnated pressboard material. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020 , 27, 1578-1586	2.3	4
163	Formation of tungsten carbide nanoparticles by wire explosion process. <i>International Journal of Applied Ceramic Technology</i> , 2020 , 17, 304-310	2	5
162	Investigation on thermal ageing impact on dielectric properties of natural ester oil. <i>Electrical Engineering</i> , 2019 , 101, 1007-1018	1.5	7
161	Synthesis, characterisation and formation mechanism of Sn-0.75 Cu solder nanoparticles by pulsed wire discharge. <i>Applied Nanoscience (Switzerland)</i> , 2019 , 9, 341-352	3.3	5
160	Synthesis of molybdenum carbide nanoparticles using pulsed wire discharge in mixed atmosphere of kerosene and argon. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 7108-7115	3.8	5
159	Synthesis of titanium carbide nanoparticles by wire explosion process and its application in carbon dioxide adsorption. <i>Journal of Alloys and Compounds</i> , 2019 , 794, 645-653	5.7	7
158	Enhancement of hydrogen generation using nanoaluminum particles produced by a wire explosion process. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2019 , 14, 810-818	1	2
157	Understanding the influence of ambience on thermal ageing of natural ester liquid. <i>IET Science, Measurement and Technology</i> , 2019 , 13, 123-130	1.5	5
156	Understanding the fundamental properties of epoxy molybdenum disulfide nanocomposites. <i>Polymer Composites</i> , 2019 , 40, 1556-1563	3	3
155	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019 , 26, 1098-1106	2.3	6

154	Investigation on dielectric and mechanical properties of epoxy reinforced with glass fiber and nano-silica composites. <i>Materials Research Express</i> , 2019 , 6, 115082	1.7	4
153	Synthesis and characterization of hypoeutectic Al-Mg nano powder produced by electrical explosion method. <i>Materials Research Express</i> , 2019 , 6, 1150g5	1.7	1
152	Study of The Phenomena of Surface Discharges and Flashover in Nanocomposite Epoxy Resin under the Influence of Homogeneous Electric Fields. <i>Engineering, Technology & Applied Science Research</i> , 2019 , 9, 4315-4321	1	4
151	Performance analysis of epoxy nanocomposites due to water droplet-initiated discharges under AC and DC voltages and localisation of discharges. <i>IET Science, Measurement and Technology</i> , 2019 , 13, 175-185	1.5	1
150	Understanding the electrical, thermal, and mechanical properties of epoxy magnesium oxide nanocomposites. <i>IET Science, Measurement and Technology</i> , 2019 , 13, 632-639	1.5	6
149	Understanding the dielectric and mechanical properties of self-passivated Al ₂ O ₃ /epoxy nanocomposites. <i>IET Science, Measurement and Technology</i> , 2019 , 13, 1336-1344	1.5	4
148	Effect of gamma irradiation on space charge and charge trap characteristics of epoxy/MgO nanocomposites. <i>Micro and Nano Letters</i> , 2019 , 14, 1334-1339	0.9	5
147	Investigating the Impact of Corona Ageing on Physicochemical properties of Natural Ester Oil Nanofluid 2019 ,		2
146	Investigation on Insulation Performance of Thermally Aged Natural Ester Oil Impregnated Pressboard. <i>IET Science, Measurement and Technology</i> , 2019 , 13, 1194-1202	1.5	3
145	Understanding the performance of gamma-ray-irradiated epoxy nanocomposites. <i>Micro and Nano Letters</i> , 2019 , 14, 107-112	0.9	9
144	Investigation on the dielectric performance of titania nanoparticles and surfactant added mixture of mineral and natural ester oil. <i>Materials Research Express</i> , 2019 , 6, 125020	1.7	2
143	Understanding the electrical, thermal and mechanical properties of LDPE-clay nanocomposites. <i>Micro and Nano Letters</i> , 2019 , 14, 650-655	0.9	2
142	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019 , 26, 1876-1884	2.3	7
141	Understanding the water droplet initiated discharges on gamma irradiated silicone rubber insulation. <i>Polymer Engineering and Science</i> , 2019 , 59, 182-191	2.3	4
140	Magnesium oxide modified nitrogen-doped porous carbon composite as an efficient candidate for high pressure carbon dioxide capture and methane storage. <i>Journal of Colloid and Interface Science</i> , 2019 , 539, 245-256	9.3	15
139	Influence of Salt Fog Test on Silicone Rubber Insulating Material Under AC and DC Voltages. <i>INAE Letters</i> , 2019 , 4, 1-6	0.7	2
138	Understanding the Water Droplet Initiated Discharges on Silicone Rubber Adopting Optical Emission and Laser Induced Breakdown Spectroscopy. <i>INAE Letters</i> , 2019 , 4, 7-13	0.7	1
137	Analysis of copper contamination in transformer insulating material with nanosecond- and femtosecond-laser-induced breakdown spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 235603		5

136	Understanding the physico-chemical and surface discharge properties of epoxy silicon carbide nanocomposites. <i>Polymer Composites</i> , 2018 , 39, 3268-3279	3	1
135	Synthesis and Photocatalytic Activity of Anatase/Rutile TiO ₂ Nanoparticles by Wire Explosion Process. <i>INAE Letters</i> , 2018 , 3, 189-196	0.7	5
134	Carbon Dioxide Adsorption of Zinc Oxide Nanoparticles Synthesized by Wire Explosion Technique. <i>INAE Letters</i> , 2018 , 3, 197-202	0.7	8
133	Optical Sensing Techniques for Condition Monitoring of Transformer Insulation Material. <i>INAE Letters</i> , 2018 , 3, 159-166	0.7	0
132	Partial discharge activity due to particle movement in SF ₆ gas filled electrode gap under different voltage profiles. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018 , 25, 1429-1438	2.3	5
131	Understanding the Incipient Discharge Activity with Epoxy/MoS ₂ Nanocomposites. <i>International Journal of the Society of Materials Engineering for Resources</i> , 2018 , 23, 195-202	0	2
130	Suppression of Red Luminescence in Wire Explosion Derived Eu:ZnO. <i>Journal of Electronic Materials</i> , 2018 , 47, 1924-1931	1.9	
129	Size-Dependent Energetics and Thermodynamic Modeling of ZnO Nanoparticles produced by Electrical Wire Explosion Technique. <i>Materials Today: Proceedings</i> , 2018 , 5, 17293-17303	1.4	0
128	Thermodynamic Modelling and Characterisation of TiO ₂ nanoparticles Produced by Wire Explosion Process. <i>Materials Today: Proceedings</i> , 2018 , 5, 17304-17311	1.4	3
127	Partial Discharge Source Classification using Time-Frequency Transformation 2018 ,		3
126	Understanding the performance of corona aged epoxy nano micro composites. <i>Micro and Nano Letters</i> , 2018 , 13, 1280-1285	0.9	16
125	Identification and localisation of incipient discharges in transformer insulation adopting UHF technique. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018 , 25, 1924-1931	2.3	9
124	Understanding incipient discharge characteristics in nano ester oil under AC/DC voltages adopting UHF technique 2018 ,		1
123	Understanding the Impact of Corona Aging of Ester Oil Adopting Fluorescent Technique. <i>INAE Letters</i> , 2018 , 3, 251-256	0.7	
122	Robust Classification of Partial Discharges in Transformer Insulation Based on Acoustic Emissions Detected Using Fiber Bragg Gratings. <i>IEEE Sensors Journal</i> , 2018 , 18, 10018-10027	4	15
121	Corona discharge activity in nanoparticle dispersed transformer oil under composite voltages. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018 , 25, 1731-1738	2.3	6
120	Study on performance of silica nanoparticle dispersed synthetic ester oil under AC and DC voltages. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018 , 25, 1958-1966	2.3	9
119	Thermodynamic modeling and characterizations of Al nanoparticles produced by electrical wire explosion process. <i>Journal of Materials Research</i> , 2017 , 32, 897-909	2.5	9

118	Thermodynamic analysis of ZnO nanoparticle formation by wire explosion process and characterization. <i>Ceramics International</i> , 2017 , 43, 6709-6720	5.1	14
117	Understanding the dielectric properties of pressboard material thermally aged in Dibenzyl Disulphide (DBDS) included transformer oil. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017 , 24, 647-655	2.3	3
116	Synthesis of nano-ZnO by wire explosion process and its photocatalytic activity. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 1676-1684	6.8	11
115	Understanding surface discharge activity with epoxy silicon carbide nanocomposites. <i>Polymer Engineering and Science</i> , 2017 , 57, 1349-1355	2.3	8
114	Rapid degradation, mineralization and detoxification of pharmaceutically active compounds in aqueous solution during pulsed corona discharge treatment. <i>Water Research</i> , 2017 , 121, 20-36	12.5	47
113	Combustion mechanism of composite solid propellant sandwiches containing nano-aluminium. <i>Combustion and Flame</i> , 2017 , 182, 64-75	5.3	28
112	Understanding Corona discharge activity in titania nanoparticles dispersed in transformer oil under AC and DC voltages. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017 , 24, 2325-2336	2.3	16
111	Thermal aging of cellulosic pressboard material and its surface discharge and chemical characterization. <i>Cellulose</i> , 2017 , 24, 5197-5210	5.5	16
110	Understanding the influence of water droplet initiated discharges on damage caused to corona-aged silicone rubber. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017 , 24, 2421-2431	2.3	16
109	Identification and localization of partial discharge in transformer insulation adopting cross recurrence plot analysis of acoustic signals detected using fiber Bragg gratings. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017 , 24, 1773-1780	2.3	27
108	Removal of 2,4-dichlorophenoxyacetic acid in aqueous solution by pulsed corona discharge treatment: Effect of different water constituents, degradation pathway and toxicity assay. <i>Chemosphere</i> , 2017 , 184, 207-214	8.4	40
107	Synthesis of Alumina nanoparticles by wire-explosion process: Characterisation and formation mechanism 2017 ,		1
106	Influence of ambient medium on thermal ageing of pressboard in transformer oil containing dibenzyl bisulphide (DBDS). <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017 , 24, 2836-2846	2.3	10
105	Understanding the physico-chemical properties of thermally aged natural ester oil adopting fluorescent technique. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2017 , 24, 3460-3470	2.3	12
104	Understanding corona activity in nanoparticles dispersed transformer oil under harmonic AC voltages 2017 ,		1
103	A Study of SiR/EPDM Mixtures for Outdoor Insulators. <i>Engineering, Technology & Applied Science Research</i> , 2017 , 7, 1737-1740	1	2
102	Water droplet initiated discharges on epoxy nanocomposites under DC voltages. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016 , 23, 1743-1752	2.3	9
101	Understanding electrical treeing activity in electron beam irradiated XLPE cable insulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016 , 23, 1652-1662	2.3	10

100	Rapid Removal of Carbofuran from Aqueous Solution by Pulsed Corona Discharge Treatment: Kinetic Study, Oxidative, Reductive Degradation Pathway, and Toxicity Assay. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 7201-7209	3.9	27
99	Disinfection of water by pulsed power technique: a mechanistic perspective. <i>RSC Advances</i> , 2016 , 6, 11980-11990		
98	Influence of barrier on corona discharge activity in liquid nitrogen under AC voltages adopting UHF technique. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016 , 23, 230-236	2.3	4
97	Applicability of pulsed power technique for the degradation of methylene blue. <i>Journal of Water Process Engineering</i> , 2016 , 11, 118-129	6.7	27
96	Electrical treeing in XLPE cable insulation at cryogenic temperature under harmonic AC voltages. <i>Cryogenics</i> , 2015 , 71, 62-67	1.8	8
95	Preparation of palladium nanoparticles and a grain-size determining equation of pulsed wire discharge in N ₂ , Ar, and He ambient gasses. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 045002	1.4	5
94	Surface potential decay of PMMA and POM in air. <i>Materials Research Express</i> , 2015 , 2, 045301	1.7	0
93	Remote surface pollutant measurement by adopting a variable stand-off distance based laser induced spectroscopy technique. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 435504	3	11
92	Investigation of Nano-Molybdenum Carbide Particle Produced by Wire-Explosion Process. <i>IEEE Transactions on Plasma Science</i> , 2015 , 43, 3470-3475	1.3	6
91	Understanding the surface discharge characteristics of thermally aged copper sulphide diffused oil impregnated pressboard material. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015 , 22, 2513-2521 ¹¹	2.3	11
90	Influence of thermally aged barrier on corona discharge activity in transformer oil under AC voltages. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015 , 22, 2415-2423	2.3	5
89	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015 , 22, 3177-3185	2.3	15
88	Understanding surface discharge activity in copper sulphide diffused oil impregnated pressboard under AC voltages. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2014 , 21, 674-682	2.3	18
87	Analysis of surface discharge activity in epoxy nanocomposites in liquid nitrogen under AC voltage. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2014 , 21, 452-459	2.3	8
86	Effect of barrier in the propagation of partial discharge signals 2014 ,		1
85	2014 ,		2
84	Understanding the discharge activity across GFRP material due to salt deposit under transient voltages by adopting OES and LIBS technique. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2014 , 21, 2283-2292	2.3	6
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