

# Ramanujam Sarathi

## List of Publications by Citations

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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 thermal, mechanical and electrical properties of epoxy nanocomposites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 445-446, 567-578	5.3	124
242	Effect of nano-aluminium in plateau-burning and catalyzed composite solid propellant combustion. <i>Combustion and Flame</i> , <b>2009</b> , 156, 1662-1673	5.3	118
241	Generation of nano aluminium powder through wire explosion process and its characterization. <i>Materials Characterization</i> , <b>2007</b> , 58, 148-155	3.9	81
240	Understanding nanoparticle formation by a wire explosion process through experimental and modelling studies. <i>Nanotechnology</i> , <b>2008</b> , 19, 025703	3.4	74
239	Production, Characterization, and Combustion of Nanoaluminum in Composite Solid Propellants. <i>Journal of Propulsion and Power</i> , <b>2009</b> , 25, 471-481	1.8	53
238	Rapid degradation, mineralization and detoxification of pharmaceutically active compounds in aqueous solution during pulsed corona discharge treatment. <i>Water Research</i> , <b>2017</b> , 121, 20-36	12.5	47
237	Generation and characterization of nano-tungsten particles formed by wire explosion process. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 475, 658-663	5.7	43
236	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> , <b>2017</b> , 184, 207-214	8.4	40
235	Quench collection of nano-aluminium agglomerates from combustion of sandwiches and propellants. <i>Proceedings of the Combustion Institute</i> , <b>2011</b> , 33, 1941-1947	5.9	39
234	Partial discharge study in transformer oil due to particle movement under DC voltage using the UHF technique. <i>Electric Power Systems Research</i> , <b>2008</b> , 78, 1819-1825	3.5	35
233	Studies on production and characterization of nano-Al <sub>2</sub> O <sub>3</sub> powder using wire explosion technique. <i>Materials Letters</i> , <b>2004</b> , 58, 1047-1050	3.3	35
232	Understanding the partial discharge activity generated due to particle movement in a composite insulation under AC voltages. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2013</b> , 48, 1-9	5.1	31
231	Diagnostic study of the surface condition of the insulation structure using wavelet transform and neural networks. <i>Electric Power Systems Research</i> , <b>2004</b> , 68, 137-147	3.5	30
230	Combustion mechanism of composite solid propellant sandwiches containing nano-aluminium. <i>Combustion and Flame</i> , <b>2017</b> , 182, 64-75	5.3	28
229	Rapid Removal of Carbofuran from Aqueous Solution by Pulsed Corona Discharge Treatment: Kinetic Study, Oxidative, Reductive Degradation Pathway, and Toxicity Assay. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 7201-7209	3.9	27
228	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> , <b>2017</b> , 24, 1773-1780	2.3	27
227	Generation and characterization of nano-tungsten carbide particles by wire explosion process. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 496, 122-128	5.7	27

226	Applicability of pulsed power technique for the degradation of methylene blue. <i>Journal of Water Process Engineering</i> , <b>2016</b> , 11, 118-129	6.7	27
225	Understanding the mechanism of nano-aluminum particle formation by wire explosion process using optical emission technique. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2010</b> , 111, 2509-2516	2.1	26
224	Generation and characterization of nano aluminium powder obtained through wire explosion process. <i>Bulletin of Materials Science</i> , <b>2007</b> , 30, 187-195	1.7	26
223	Generation and characterization of nano tungsten oxide particles by wire explosion process. <i>Materials Characterization</i> , <b>2011</b> , 62, 248-255	3.9	24
222	Accumulation of nano-aluminium during combustion of composite solid propellant mixtures. <i>Combustion, Explosion and Shock Waves</i> , <b>2010</b> , 46, 21-29	1	23
221	Investigation of partial discharge activity by a conducting particle in transformer oil under harmonic AC voltages adopting UHF technique. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2012</b> , 19, 1514-1520	2.3	22
220	Identification of Partial Discharges in Gas-insulated Switchgear by Ultra-high-frequency Technique and Classification by Adopting Multi-class Support Vector Machines. <i>Electric Power Components and Systems</i> , <b>2011</b> , 39, 1577-1595	1	22
219	UHF technique for identification of partial discharge in a composite insulation under AC and DC voltages. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2008</b> , 15, 1724-1730	2.3	21
218	Synchronous fluorescence and excitation emission characteristics of transformer oil ageing. <i>Talanta</i> , <b>2006</b> , 70, 811-7	6.2	21
217	Disinfection of water by pulsed power technique: a mechanistic perspective. <i>RSC Advances</i> , <b>2016</b> , 6, 11980-11990	3.7	20
216	Understanding electrical treeing phenomena in XLPE cable insulation under harmonic AC voltages adopting UHF technique. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2012</b> , 19, 903-909	2.3	20
215	Investigation of partial discharge activity of single conducting particle in transformer oil under DC voltages using UHF technique. <i>IET Science, Measurement and Technology</i> , <b>2009</b> , 3, 325-333	1.5	20
214	Investigation into the failure of XLPE cables due to electrical treeing: a physico chemical approach. <i>Polymer Testing</i> , <b>2003</b> , 22, 313-318	4.5	20
213	Understanding the hydrophobic characteristics of epoxy nanocomposites using wavelets and fractal technique. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2008</b> , 15, 178-186	2.3	19
212	Understanding surface discharge activity in copper sulphide diffused oil impregnated pressboard under AC voltages. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2014</b> , 21, 674-682	2.3	18
211	Investigation of partial discharge activity of conducting particles in liquid nitrogen under DC voltages using uhf technique. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2008</b> , 15, 655-662	2.3	17
210	Investigation of tracking phenomena in outdoor polymeric insulation material under DC voltages using wavelets. <i>IEEE Transactions on Power Delivery</i> , <b>2006</b> , 21, 515-517	4.3	17
209	Understanding the Performance of Epoxy Nano Composites-A Physico-Chemical Approach. <i>IEEE Transactions on Fundamentals and Materials</i> , <b>2006</b> , 126, 1112-1120	0.2	17

208	Analysis of failure of crosslinked polyethylene cables because of electrical treeing: A physicochemical approach. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 92, 2169-2178	2.9	17
207	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> , <b>2017</b> , 24, 2325-2336	2.3	16
206	Thermal aging of cellulosic pressboard material and its surface discharge and chemical characterization. <i>Cellulose</i> , <b>2017</b> , 24, 5197-5210	5.5	16
205	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> , <b>2017</b> , 24, 2421-2431	2.3	16
204	Generation and characterization of zirconium nitride nanoparticles by wire explosion process. <i>Ceramics International</i> , <b>2012</b> , 38, 5507-5512	5.1	16
203	Analysis of Surface Degradation of Silicone Rubber Insulation Due to Tracking Under Different Voltage Profiles. <i>Electrical Engineering</i> , <b>2007</b> , 89, 489-501	1.5	16
202	Understanding the performance of corona aged epoxy nano micro composites. <i>Micro and Nano Letters</i> , <b>2018</b> , 13, 1280-1285	0.9	16
201	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2015</b> , 22, 3177-3185	2.3	15
200	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> , <b>2019</b> , 539, 245-256	9.3	15
199	Robust Classification of Partial Discharges in Transformer Insulation Based on Acoustic Emissions Detected Using Fiber Bragg Gratings. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 10018-10027	4	15
198	Thermodynamic analysis of ZnO nanoparticle formation by wire explosion process and characterization. <i>Ceramics International</i> , <b>2017</b> , 43, 6709-6720	5.1	14
197	Influence of harmonic AC voltage on surface discharge formation in transformer insulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2014</b> , 21, 2383-2393	2.3	14
196	Synthesis and characterization of hexagonal nano tungsten carbide powder using multi walled carbon nanotubes. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2012</b> , 33, 53-57	4.1	14
195	Detecting salt deposition on a wind turbine blade using laser induced breakdown spectroscopy technique. <i>Applied Physics A: Materials Science and Processing</i> , <b>2013</b> , 112, 149-153	2.6	14
194	Impact of binary gas on nano-aluminium particle formation through wire explosion process. <i>Materials Letters</i> , <b>2007</b> , 61, 1823-1826	3.3	14
193	A Review of Two Nanocomposite Insulating Materials Models: Lewis Contribution in the Development of the Models, their Differences, their Similarities and Future Challenges. <i>Engineering, Technology &amp; Applied Science Research</i> , <b>2014</b> , 4, 636-643	1	14
192	Fluorescence Fiber Based Identification of Partial Discharges in Liquid Nitrogen for High-Temperature Superconducting Power Apparatus <b>2020</b> , 4, 1-4		13
191	Analysis of partial discharge activity by a conducting particle in liquid nitrogen under AC voltages adopting UHF technique. <i>Cryogenics</i> , <b>2010</b> , 50, 43-49	1.8	13

190	UHF technique for identification of discharges initiated by liquid droplet in epoxy nanocomposite insulation material under ac voltages. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 155407	3	13
189	Investigations of surface modifications in ethylene propylene diene monomer (EPDM) rubber due to tracking. <i>Polymer Testing</i> , <b>2002</b> , 21, 463-471	4.5	13
188	Investigation on flow electrification of ester-based TiO <sub>2</sub> nanofluids. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2020</b> , 27, 1492-1500	2.3	13
187	Understanding the physico-chemical properties of thermally aged natural ester oil adopting fluorescent technique. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2017</b> , 24, 3460-3470	2.3	12
186	Analysis of surface degradation of epoxy nanocomposite due to tracking under AC and DC voltages. <i>Polymer Degradation and Stability</i> , <b>2007</b> , 92, 560-568	4.7	12
185	Investigations into the surface condition of silicone rubber insulation material using multiresolution signal decomposition. <i>IEEE Transactions on Power Delivery</i> , <b>2006</b> , 21, 243-252	4.3	12
184	Investigation on thermally aged natural ester oil for real-time monitoring and analysis of transformer insulation. <i>High Voltage</i> , <b>2020</b> , 5, 209-217	4.1	12
183	Synthesis of nano-ZnO by wire explosion process and its photocatalytic activity. <i>Journal of Environmental Chemical Engineering</i> , <b>2017</b> , 5, 1676-1684	6.8	11
182	Remote surface pollutant measurement by adopting a variable stand-off distance based laser induced spectroscopy technique. <i>Journal Physics D: Applied Physics</i> , <b>2015</b> , 48, 435504	3	11
181	Understanding the surface discharge characteristics of thermally aged copper sulphide diffused oil impregnated pressboard material. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2015</b> , 22, 2513-2521 <sup>11</sup>	2.3	11
180	Diagnostic study of electrical treeing in underground XLPE cables using acoustic emission technique. <i>Polymer Testing</i> , <b>2004</b> , 23, 863-869	4.5	11
179	Understanding electrical treeing activity in electron beam irradiated XLPE cable insulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 1652-1662	2.3	10
178	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> , <b>2017</b> , 24, 2836-2846 <sup>2.3</sup>	2.3	10
177	Thermodynamic modeling and characterizations of Al nanoparticles produced by electrical wire explosion process. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 897-909	2.5	9
176	Water droplet initiated discharges on epoxy nanocomposites under DC voltages. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2016</b> , 23, 1743-1752	2.3	9
175	Analysis of surface degradation of high density polyethylene (HDPE) insulation material due to tracking. <i>Bulletin of Materials Science</i> , <b>2004</b> , 27, 251-262	1.7	9
174	Investigation on space charge and charge trap characteristics of Al <sub>2</sub> O <sub>3</sub> /epoxy nanocomposites. <i>IET Science, Measurement and Technology</i> , <b>2020</b> , 14, 146-156	1.5	9
173	Understanding the performance of gamma-ray-irradiated epoxy nanocomposites. <i>Micro and Nano Letters</i> , <b>2019</b> , 14, 107-112	0.9	9

172	Identification and localisation of incipient discharges in transformer insulation adopting UHF technique. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2018</b> , 25, 1924-1931	2.3	9
171	Study on performance of silica nanoparticle dispersed synthetic ester oil under AC and DC voltages. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2018</b> , 25, 1958-1966	2.3	9
170	Understanding surface discharge activity with epoxy silicon carbide nanocomposites. <i>Polymer Engineering and Science</i> , <b>2017</b> , 57, 1349-1355	2.3	8
169	Electrical treeing in XLPE cable insulation at cryogenic temperature under harmonic AC voltages. <i>Cryogenics</i> , <b>2015</b> , 71, 62-67	1.8	8
168	Carbon Dioxide Adsorption of Zinc Oxide Nanoparticles Synthesized by Wire Explosion Technique. <i>INAE Letters</i> , <b>2018</b> , 3, 197-202	0.7	8
167	Analysis of surface discharge activity in epoxy nanocomposites in liquid nitrogen under AC voltage. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2014</b> , 21, 452-459	2.3	8
166	Feasibility study for detecting copper contaminants in transformer insulation using laser-induced breakdown spectroscopy. <i>Applied Physics A: Materials Science and Processing</i> , <b>2014</b> , 117, 281-288	2.6	8
165	Understanding the impact of gamma irradiation on electrical and mechanical properties of epoxy nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 125, 415-424	2.9	8
164	Understanding Electrical Treeing Phenomena in XLPE Cable Insulation Adopting UHF Technique. <i>Journal of Electrical Engineering</i> , <b>2011</b> , 62, 73-79	0.6	8
163	STUDIES ON GENERATION AND CHARACTERIZATION OF NANOALUMINA POWDER USING WIRE EXPLOSION TECHNIQUE. <i>International Journal of Nanoscience</i> , <b>2004</b> , 03, 819-827	0.6	8
162	Study of electrical treeing phenomena in XLPE cable samples using acoustic techniques. <i>Electric Power Systems Research</i> , <b>2005</b> , 73, 159-168	3.5	8
161	Investigation on space charge and charge trap characteristics of gamma-irradiated epoxy micro/nano composites. <i>High Voltage</i> , <b>2020</b> , 5, 191-201	4.1	8
160	Investigation on thermal ageing impact on dielectric properties of natural ester oil. <i>Electrical Engineering</i> , <b>2019</b> , 101, 1007-1018	1.5	7
159	Synthesis of titanium carbide nanoparticles by wire explosion process and its application in carbon dioxide adsorption. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 794, 645-653	5.7	7
158	Partial discharge source classification by support vector machine <b>2013</b> ,		7
157	Understanding treeing phenomena and space charge effect in gamma-irradiated XLPE cable insulation. <i>Electrical Engineering</i> , <b>2011</b> , 93, 199-207	1.5	7
156	Influence of Nano Aluminium Powder Produced by Wire Explosion Process at Different Ambience on Hydrogen Generation. <i>Journal of Electrical Engineering</i> , <b>2010</b> , 61, 215-221	0.6	7
155	Classification of incipient discharges in transformer insulation using Acoustic Emission signatures <b>2010</b> ,		7

154	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 1876-1884	2.3	7
153	Development of Nano-Al Based Highly Metalized Fuel-Rich Propellant for Water Ramjet Propulsion Applications. <i>Propellants, Explosives, Pyrotechnics</i> , <b>2020</b> , 45, 1026-1040	1.7	6
152	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2019</b> , 26, 1098-1106	2.3	6
151	Investigation of Nano-Molybdenum Carbide Particle Produced by Wire-Explosion Process. <i>IEEE Transactions on Plasma Science</i> , <b>2015</b> , 43, 3470-3475	1.3	6
150	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> , <b>2014</b> , 21, 2283-2292	2.3	6
149	Understanding water droplet initiated discharges on epoxy nanocomposites under harmonic AC voltages adopting uhf technique. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2014</b> , 21, 918-925	2.3	6
148	Understanding the Mechanism of Nanoparticle Formation in a Wire Explosion Process by Adopting the Optical Emission Technique. <i>Plasma Science and Technology</i> , <b>2013</b> , 15, 562-569	1.5	6
147	Understanding the incipient discharge activity in liquid nitrogen under AC voltage by adopting UHF technique. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2011</b> , 18, 707-713	2.3	6
146	Understanding the electrical, thermal, and mechanical properties of epoxy magnesium oxide nanocomposites. <i>IET Science, Measurement and Technology</i> , <b>2019</b> , 13, 632-639	1.5	6
145	Mechanical, thermal, electrical and crystallographic behaviour of EPDM rubber/clay nanocomposites for out-door insulation applications. <i>Advances in Materials and Processing Technologies</i> , <b>2020</b> , 6, 54-74	0.8	6
144	Fabrication of self-cleaning superhydrophobic silicone rubber insulator through laser texturing. <i>Surface Engineering</i> , <b>2021</b> , 37, 308-317	2.6	6
143	Corona discharge activity in nanoparticle dispersed transformer oil under composite voltages. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2018</b> , 25, 1731-1738	2.3	6
142	An Ultrawideband Conical Monopole With Radome for Detection of Partial Discharges. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 18764-18772	4	6
141	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> , <b>2021</b> , 9, 129218-129228	3.5	6
140	Synthesis, characterisation and formation mechanism of Sn-0.75 Cu solder nanoparticles by pulsed wire discharge. <i>Applied Nanoscience (Switzerland)</i> , <b>2019</b> , 9, 341-352	3.3	5
139	Synthesis of molybdenum carbide nanoparticles using pulsed wire discharge in mixed atmosphere of kerosene and argon. <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 7108-7115	3.8	5
138	Understanding the influence of ambience on thermal ageing of natural ester liquid. <i>IET Science, Measurement and Technology</i> , <b>2019</b> , 13, 123-130	1.5	5
137	Preparation of palladium nanoparticles and a grain-size determining equation of pulsed wire discharge in N <sub>2</sub> , Ar, and He ambient gasses. <i>Japanese Journal of Applied Physics</i> , <b>2015</b> , 54, 045002	1.4	5

136	Analysis of copper contamination in transformer insulating material with nanosecond- and femtosecond-laser-induced breakdown spectroscopy. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 235603		5
135	Synthesis and Photocatalytic Activity of Anatase/Rutile TiO <sub>2</sub> Nanoparticles by Wire Explosion Process. <i>INAE Letters</i> , <b>2018</b> , 3, 189-196	0.7	5
134	Partial discharge activity due to particle movement in SF <sub>6</sub> gas filled electrode gap under different voltage profiles. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2018</b> , 25, 1429-1438	2.3	5
133	Influence of thermally aged barrier on corona discharge activity in transformer oil under AC voltages. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2015</b> , 22, 2415-2423	2.3	5
132	Generation and Characterization of Zirconium Carbide Nanoparticles by Wire Explosion Process. <i>Materials Transactions</i> , <b>2012</b> , 53, 1420-1424	1.3	5
131	Production and Characterization of Nano Copper Powder Using Pulsed Power Technique. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , <b>2006</b> , 36, 127-130		5
130	Characterization of Partial Discharges in a Gas Insulated System Using an Acoustic Emission Technique. <i>Electric Power Components and Systems</i> , <b>2006</b> , 34, 653-669	1	5
129	Studies on Generation and Characterization of Nano Aluminium Nitride Using Wire Explosion Technique. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , <b>2006</b> , 36, 53-58		5
128	Investigations of surface characterization of silicone rubber due to tracking phenomena under a.c. and d.c. voltages. <i>Bulletin of Materials Science</i> , <b>2002</b> , 25, 473-475	1.7	5
127	Effect of gamma irradiation on space charge and charge trap characteristics of epoxy/MgO nanocomposites. <i>Micro and Nano Letters</i> , <b>2019</b> , 14, 1334-1339	0.9	5
126	Classification of Aged Epoxy Micro/Nanocomposites Through PCA- and ANN-Adopted LIBS Analysis. <i>IEEE Transactions on Plasma Science</i> , <b>2021</b> , 49, 1088-1096	1.3	5
125	Formation of tungsten carbide nanoparticles by wire explosion process. <i>International Journal of Applied Ceramic Technology</i> , <b>2020</b> , 17, 304-310	2	5
124	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> , <b>2016</b> , 23, 230-236	2.3	4
123	Investigation on dielectric and mechanical properties of epoxy reinforced with glass fiber and nano-silica composites. <i>Materials Research Express</i> , <b>2019</b> , 6, 115082	1.7	4
122	Dynamical aspects of electrical trees. <i>Materials Letters</i> , <b>1997</b> , 32, 351-354	3.3	4
121	Investigation into the Effects of Transformer Oil on Fluoro Poly(ether imide)s and their Nanocomposites Films. <i>Journal of Metastable and Nanocrystalline Materials</i> , <b>2005</b> , 23, 347-350	0.2	4
120	Study of The Phenomena of Surface Discharges and Flashover in Nanocomposite Epoxy Resin under the Influence of Homogeneous Electric Fields. <i>Engineering, Technology &amp; Applied Science Research</i> , <b>2019</b> , 9, 4315-4321	1	4
119	Understanding the dielectric and mechanical properties of self-passivated Al <sub>2</sub> O <sub>3</sub> /epoxy nanocomposites. <i>IET Science, Measurement and Technology</i> , <b>2019</b> , 13, 1336-1344	1.5	4



118	Vacuum ultraviolet laser induced breakdown spectroscopy for detecting sulphur in thermally aged transformer insulation material. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2020</b> , 163, 105730	3.1	4
117	Investigation on space charge dynamics and mechanical properties of Epoxy Alumina nanocomposites. <i>Materials Research Express</i> , <b>2020</b> , 7, 025037	1.7	4
116	Development of a Swirl-Induced Rotating Glow Discharge Reactor for CO2 Conversion: Fluid Dynamics and Discharge Dynamics Studies. <i>Energy Technology</i> , <b>2020</b> , 8, 2000535	3.5	4
115	Analysis of space charge and charge trap characteristics of gamma irradiated silicone rubber nanocomposites. <i>IET Nanodielectrics</i> , <b>2020</b> , 3, 44-52	2.8	4
114	Investigation on the performance of thermally aged natural ester fluid impregnated pressboard material. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2020</b> , 27, 1578-1586	2.3	4
113	Understanding the water droplet initiated discharges on gamma irradiated silicone rubber insulation. <i>Polymer Engineering and Science</i> , <b>2019</b> , 59, 182-191	2.3	4
112	Investigation on Surface Condition of the Corona-Aged Silicone Rubber Nanocomposite Adopting Wavelet and LIBS Technique. <i>IEEE Transactions on Plasma Science</i> , <b>2021</b> , 49, 2294-2304	1.3	4
111	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> , <b>2017</b> , 24, 647-655	2.3	3
110	Dynamical aspects of nanoparticle formation by wire explosion process. <i>Nano Express</i> , <b>2020</b> , 1, 010049	2	3
109	Understanding the fundamental properties of epoxy molybdenum disulfide nanocomposites. <i>Polymer Composites</i> , <b>2019</b> , 40, 1556-1563	3	3
108	Propagation of partial discharge signals and the location of partial discharge occurrences <b>2013</b> ,		3
107	Understanding discharges initiated by water droplet on epoxy nanocomposites under DC voltages adopting UHF technique. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , <b>2013</b> , 8, 427-431	1	3
106	Understanding the partial discharge activity of conducting particles in GIS under DC voltages using the UHF technique. <i>European Transactions on Electrical Power</i> , <b>2009</b> , 20, n/a-n/a		3
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104	Analysis of surface degradation of silicone rubber due to tracking a physicochemical approach. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 88, 2392-2399	2.9	3
103	Investigation on the digital image correlation and charge trap characteristics of Al/epoxy nanocomposites. <i>Materials Research Express</i> , <b>2020</b> , 7, 025035	1.7	3
102	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> , <b>2021</b> , 32, 115201	2	3
101	Investigation on Insulation Performance of Thermally Aged Natural Ester Oil Impregnated Pressboard. <i>IET Science, Measurement and Technology</i> , <b>2019</b> , 13, 1194-1202	1.5	3

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99	Investigation on the impact of nano MgO addition on dielectric properties and space charge behavior of epoxy resin AlN nanocomposites. <i>IOP SciNotes</i> , <b>2021</b> , 2, 014402	1.2	3
98	Thermodynamic Modelling and Characterisation of TiO <sub>2</sub> nanoparticles Produced by Wire Explosion Process. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 17304-17311	1.4	3
97	Partial Discharge Source Classification using Time-Frequency Transformation <b>2018</b> ,		3
96	Planar Ultrawideband Circularly Polarized Cosine Slot Archimedean Spiral Antenna for Partial Discharge Detection. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	3
95	Impact of Magnetic Field on Corona Discharge Behavior of Mineral Oil under AC Voltage. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2022</b> , 1-1	2.3	3
94	Enhancement of hydrogen generation using nanoaluminum particles produced by a wire explosion process. <i>IEEE Transactions on Electrical and Electronic Engineering</i> , <b>2019</b> , 14, 810-818	1	2
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91	Optical emission spectroscopy study on flashover along insulator surface due to particle contamination. <i>Laser and Particle Beams</i> , <b>2014</b> , 32, 681-689	0.9	2
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84	Investigation Into Variation of Resistivity and Permittivity of Aqueous Solutions and Soils With Frequency and Current Density. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2021</b> , 1-13	2	2
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67	Investigation of surface strain by digital image correlation and charge trap characteristics of epoxy alumina nanocomposites. <i>Nano Express</i> , <b>2020</b> , 1, 010043	2	1
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62	Synthesis of Alumina nanoparticles by wire-explosion process: Characterisation and formation mechanism <b>2017</b> ,		1
61	Understanding corona activity in nanoparticles dispersed transformer oil under harmonic AC voltages <b>2017</b> ,		1
60	Feature extraction of UHF PD signals by wavelet packet based MRSD analysis For defect identification in Gas Insulated Systems <b>2012</b> ,		1
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52	Understanding the dielectric properties and electromagnetic shielding efficiency of zirconia filled epoxy-MWCNT composites. <i>Engineering Research Express</i> , <b>2022</b> , 4, 015008	0.9	1
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34	Understanding incipient discharge characteristics in nano ester oil under AC/DC voltages adopting UHF technique <b>2018</b> ,		1
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13	Degradation Assessment of Ester Liquids <b>2021</b> , 85-125		
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11	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> , <b>2020</b> , 14, 1029-1036	1.5	

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