

Ramanujam Sarathi

List of Publications by Year in descending order

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294
papers

3,278
citations

186209

28
h-index

265120

42
g-index

298
all docs

298
docs citations

298
times ranked

2249
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of nano-aluminium in plateau-burning and catalyzed composite solid propellant combustion. <i>Combustion and Flame</i> , 2009, 156, 1662-1673.	2.8	151
2	Understanding the thermal, mechanical and electrical properties of epoxy nanocomposites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 445-446, 567-578.	2.6	149
3	Generation of nano aluminium powder through wire explosion process and its characterization. <i>Materials Characterization</i> , 2007, 58, 148-155.	1.9	92
4	Understanding nanoparticle formation by a wire explosion process through experimental and modelling studies. <i>Nanotechnology</i> , 2008, 19, 025703.	1.3	88
5	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.	5.3	71
6	Production, Characterization, and Combustion of Nanoaluminum in Composite Solid Propellants. <i>Journal of Propulsion and Power</i> , 2009, 25, 471-481.	1.3	64
7	Quench collection of nano-aluminium agglomerates from combustion of sandwiches and propellants. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 1941-1947.	2.4	57
8	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.	4.2	52
9	Partial discharge study in transformer oil due to particle movement under DC voltage using the UHF technique. <i>Electric Power Systems Research</i> , 2008, 78, 1819-1825.	2.1	49
10	Generation and characterization of nano-tungsten particles formed by wire explosion process. <i>Journal of Alloys and Compounds</i> , 2009, 475, 658-663.	2.8	49
11	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> , 2013, 48, 1-9.	3.3	45
12	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.	1.8	39
13	Combustion mechanism of composite solid propellant sandwiches containing nano-aluminium. <i>Combustion and Flame</i> , 2017, 182, 64-75.	2.8	39
14	Studies on production and characterization of nano-Al ₂ O ₃ powder using wire explosion technique. <i>Materials Letters</i> , 2004, 58, 1047-1050.	1.3	38
15	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> , 2008, 15, 1724-1730.	1.8	37
16	Diagnostic study of the surface condition of the insulation structure using wavelet transform and neural networks. <i>Electric Power Systems Research</i> , 2004, 68, 137-147.	2.1	35
17	Generation and characterization of nano-tungsten carbide particles by wire explosion process. <i>Journal of Alloys and Compounds</i> , 2010, 496, 122-128.	2.8	35
18	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> , 2012, 19, 1514-1520.	1.8	35

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19	Applicability of pulsed power technique for the degradation of methylene blue. Journal of Water Process Engineering, 2016, 11, 118-129.	2.6	35
20	Identification and localization of partial discharge in transformer insulation adopting cross recurrence plot analysis of acoustic signals detected using fiber Bragg gratings. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1773-1780.	1.8	35
21	Understanding the mechanism of nano-aluminum particle formation by wire explosion process using optical emission technique. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 2509-2516.	1.1	34
22	Magnesium oxide modified nitrogen-doped porous carbon composite as an efficient candidate for high pressure carbon dioxide capture and methane storage. Journal of Colloid and Interface Science, 2019, 539, 245-256.	5.0	33
23	Accumulation of nano-aluminium during combustion of composite solid propellant mixtures. Combustion, Explosion and Shock Waves, 2010, 46, 21-29.	0.3	32
24	Investigation on flow electrification of ester-based TiO ₂ nanofluids. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 1492-1500.	1.8	32
25	Identification of Partial Discharges in Gas-insulated Switchgear by Ultra-high-frequency Technique and Classification by Adopting Multi-class Support Vector Machines. Electric Power Components and Systems, 2011, 39, 1577-1595.	1.0	31
26	Understanding electrical treeing phenomena in XLPE cable insulation under harmonic AC voltages adopting UHF technique. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 903-909.	1.8	31
27	Robust Classification of Partial Discharges in Transformer Insulation Based on Acoustic Emissions Detected Using Fiber Bragg Gratings. IEEE Sensors Journal, 2018, 18, 10018-10027.	2.4	31
28	Generation and characterization of nano aluminium powder obtained through wire explosion process. Bulletin of Materials Science, 2007, 30, 187-195.	0.8	30
29	Electrical treeing in XLPE cable insulation under harmonic AC voltages. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 3177-3185.	1.8	29
30	Generation and characterization of nano tungsten oxide particles by wire explosion process. Materials Characterization, 2011, 62, 248-255.	1.9	28
31	Disinfection of water by pulsed power technique: a mechanistic perspective. RSC Advances, 2016, 6, 11980-11990.	1.7	28
32	Understanding the influence of water droplet initiated discharges on damage caused to corona-aged silicone rubber. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 2421-2431.	1.8	28
33	Investigation on thermally aged natural ester oil for real-time monitoring and analysis of transformer insulation. High Voltage, 2020, 5, 209-217.	2.7	27
34	Synchronous fluorescence and excitation emission characteristics of transformer oil ageing. Talanta, 2006, 70, 811-817.	2.9	26
35	Investigation of partial discharge activity of single conducting particle in transformer oil under DC voltages using UHF technique. IET Science, Measurement and Technology, 2009, 3, 325-333.	0.9	26
36	Investigation on space charge and charge trap characteristics of gamma-irradiated epoxy micro-nano composites. High Voltage, 2020, 5, 191-201.	2.7	24

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37	Thermal aging of cellulosic pressboard material and its surface discharge and chemical characterization. <i>Cellulose</i> , 2017, 24, 5197-5210.	2.4	23
38	Investigation into the failure of XLPE cables due to electrical treeing: a physico chemical approach. <i>Polymer Testing</i> , 2003, 22, 313-318.	2.3	21
39	Analysis of Surface Degradation of Silicone Rubber Insulation Due to Tracking Under Different Voltage Profiles. <i>Electrical Engineering</i> , 2007, 89, 489-501.	1.2	21
40	Understanding the hydrophobic characteristics of epoxy nanocomposites using wavelets and fractal technique. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2008, 15, 178-186.	1.8	21
41	Generation and characterization of zirconium nitride nanoparticles by wire explosion process. <i>Ceramics International</i> , 2012, 38, 5507-5512.	2.3	21
42	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.	1.8	21
43	Analysis of failure of crosslinked polyethylene cables because of electrical treeing: A physicochemical approach. <i>Journal of Applied Polymer Science</i> , 2004, 92, 2169-2178.	1.3	20
44	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> , 2008, 15, 655-662.	1.8	20
45	Influence of harmonic AC voltage on surface discharge formation in transformer insulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2014, 21, 2383-2393.	1.8	20
46	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.	1.8	20
47	Understanding the performance of corona aged epoxy nano micro composites. <i>Micro and Nano Letters</i> , 2018, 13, 1280-1285.	0.6	20
48	Understanding the Performance of Epoxy Nano Composites-A Physico-Chemical Approach. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2006, 126, 1112-1120.	0.2	19
49	Detecting salt deposition on a wind turbine blade using laser induced breakdown spectroscopy technique. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 112, 149-153.	1.1	19
50	Thermodynamic analysis of ZnO nanoparticle formation by wire explosion process and characterization. <i>Ceramics International</i> , 2017, 43, 6709-6720.	2.3	19
51	Analysis of surface degradation of epoxy nanocomposite due to tracking under AC and DC voltages. <i>Polymer Degradation and Stability</i> , 2007, 92, 560-568.	2.7	18
52	Impact of binary gas on nano-aluminium particle formation through wire explosion process. <i>Materials Letters</i> , 2007, 61, 1823-1826.	1.3	18
53	Fabrication of self-cleaning superhydrophobic silicone rubber insulator through laser texturing. <i>Surface Engineering</i> , 2021, 37, 308-317.	1.1	18
54	Study of Ultra High Frequency Measurement Techniques for Online Monitoring of Partial Discharges in High Voltage Systems. <i>IEEE Sensors Journal</i> , 2022, 22, 11698-11709.	2.4	18

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55	Investigation of Tracking Phenomena in Outdoor Polymeric Insulation Material Under DC Voltages Using Wavelets. IEEE Transactions on Power Delivery, 2006, 21, 515-517.	2.9	17
56	Synthesis and characterization of hexagonal nano tungsten carbide powder using multi walled carbon nanotubes. International Journal of Refractory Metals and Hard Materials, 2012, 33, 53-57.	1.7	17
57	Understanding the surface discharge characteristics of thermally aged copper sulphide diffused oil impregnated pressboard material. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 2513-2521.	1.8	17
58	Investigations of surface modifications in ethylene propylene diene monomer (EPDM) rubber due to tracking. Polymer Testing, 2002, 21, 463-471.	2.3	16
59	UHF technique for identification of discharges initiated by liquid droplet in epoxy nanocomposite insulation material under ac voltages. Journal Physics D: Applied Physics, 2008, 41, 155407.	1.3	16
60	Remote surface pollutant measurement by adopting a variable stand-off distance based laser induced spectroscopy technique. Journal Physics D: Applied Physics, 2015, 48, 435504.	1.3	16
61	Synthesis of titanium carbide nanoparticles by wire explosion process and its application in carbon dioxide adsorption. Journal of Alloys and Compounds, 2019, 794, 645-653.	2.8	16
62	An Ultrawideband Conical Monopole With Radome for Detection of Partial Discharges. IEEE Sensors Journal, 2021, 21, 18764-18772.	2.4	16
63	Investigation on space charge and charge trap characteristics of Al ³⁺ epoxy nanocomposites. IET Science, Measurement and Technology, 2020, 14, 146-156.	0.9	16
64	Investigations Into the Surface Condition of Silicone Rubber Insulation Material Using Multiresolution Signal Decomposition. IEEE Transactions on Power Delivery, 2006, 21, 243-252.	2.9	15
65	Analysis of partial discharge activity by a conducting particle in liquid nitrogen under AC voltages adopting UHF technique. Cryogenics, 2010, 50, 43-49.	0.9	15
66	Investigation on thermal ageing impact on dielectric properties of natural ester oil. Electrical Engineering, 2019, 101, 1007-1018.	1.2	15
67	Fluorescence Fiber Based Identification of Partial Discharges in Liquid Nitrogen for High-Temperature Superconducting Power Apparatus. , 2020, 4, 1-4.		15
68	Classification of Aged Epoxy Micro ² Nanocomposites Through PCA- and ANN-Adopted LIBS Analysis. IEEE Transactions on Plasma Science, 2021, 49, 1088-1096.	0.6	15
69	A Review of Two Nanocomposite Insulating Materials Models: Lewis TM Contribution in the Development of the Models, their Differences, their Similarities and Future Challenges. Engineering, Technology & Applied Science Research, 2014, 4, 636-643.	0.8	15
70	Analysis of surface degradation of high density polyethylene (HDPE) insulation material due to tracking. Bulletin of Materials Science, 2004, 27, 251-262.	0.8	14
71	Understanding Electrical Treeing Phenomena in XLPE Cable Insulation Adopting UHF Technique. Journal of Electrical Engineering, 2011, 62, 73-79.	0.4	14
72	Analysis of surface discharge activity in epoxy nanocomposites in liquid nitrogen under AC voltage. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 452-459.	1.8	14

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73	Synthesis of nano-ZnO by wire explosion process and its photocatalytic activity. Journal of Environmental Chemical Engineering, 2017, 5, 1676-1684.	3.3	14
74	Investigation on the electrical, thermal and mechanical properties of silicone rubber nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2019, 26, 1876-1884.	1.8	14
75	Development of a Swirl-Induced Rotating Glow Discharge Reactor for CO ₂ Conversion: Fluid Dynamics and Discharge Dynamics Studies. Energy Technology, 2020, 8, 2000535.	1.8	14
76	Investigation on Impact of Magnetic Field on the Corona Discharge Activity in Punga Oil Using Fluorescent Fiber and UHF Sensor Techniques. IEEE Access, 2021, 9, 129218-129228.	2.6	14
77	Water droplet initiated discharges on epoxy nanocomposites under DC voltages. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 1743-1752.	1.8	13
78	Understanding the physico-chemical properties of thermally aged natural ester oil adopting fluorescent technique. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 3460-3470.	1.8	13
79	Carbon Dioxide Adsorption of Zinc Oxide Nanoparticles Synthesized by Wire Explosion Technique. INAE Letters, 2018, 3, 197-202.	1.0	13
80	Understanding the performance of gamma-irradiated epoxy nanocomposites. Micro and Nano Letters, 2019, 14, 107-112.	0.6	13
81	Dielectric properties of silica based synthetic ester nanofluid. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 1508-1515.	1.8	13
82	Development of Nano-Al Based Highly Metalized Fuel-Rich Propellant for Water Ramjet Propulsion Applications. Propellants, Explosives, Pyrotechnics, 2020, 45, 1026-1040.	1.0	13
83	Diagnostic study of electrical treeing in underground XLPE cables using acoustic emission technique. Polymer Testing, 2004, 23, 863-869.	2.3	12
84	Study of electrical treeing phenomena in XLPE cable samples using acoustic techniques. Electric Power Systems Research, 2005, 73, 159-168.	2.1	12
85	Partial discharge source classification by support vector machine. , 2013, , .		12
86	Electrical treeing in XLPE cable insulation at cryogenic temperature under harmonic AC voltages. Cryogenics, 2015, 71, 62-67.	0.9	12
87	Influence of ambient medium on thermal ageing of pressboard in transformer oil containing dibenzyl bisulphide (DBDS). IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 2836-2846.	1.8	12
88	Identification and localisation of incipient discharges in transformer insulation adopting UHF technique. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1924-1931.	1.8	12
89	Corona discharge activity in nanoparticle dispersed transformer oil under composite voltages. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1731-1738.	1.8	12
90	Investigation on Surface Condition of the Corona-Aged Silicone Rubber Nanocomposite Adopting Wavelet and LIBS Technique. IEEE Transactions on Plasma Science, 2021, 49, 2294-2304.	0.6	12

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91	Selective Production of Hydrogen and Solid Carbon via Methane Pyrolysis Using a Swirl-Induced Point-Plane Non-thermal Plasma Reactor. <i>Energy & Fuels</i> , 2022, 36, 826-836.	2.5	12
92	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.	1.8	11
93	Understanding electrical treeing activity in electron beam irradiated XLPE cable insulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2016, 23, 1652-1662.	1.8	11
94	Thermodynamic modeling and characterizations of Al nanoparticles produced by electrical wire explosion process. <i>Journal of Materials Research</i> , 2017, 32, 897-909.	1.2	11
95	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.	1.8	11
96	Investigation on dielectric and mechanical properties of epoxy reinforced with glass fiber and nano-silica composites. <i>Materials Research Express</i> , 2019, 6, 115082.	0.8	11
97	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.	0.6	11
98	Impact of Surfactants on the Electrical and Rheological Aspects of Silica Based Synthetic Ester Nanofluids. <i>IEEE Access</i> , 2022, 10, 18192-18200.	2.6	11
99	Classification of incipient discharges in transformer insulation using Acoustic Emission signatures. , 2010, , .		10
100	Investigation of Nano-Molybdenum Carbide Particle Produced by Wire-Explosion Process. <i>IEEE Transactions on Plasma Science</i> , 2015, 43, 3470-3475.	0.6	10
101	Understanding surface discharge activity with epoxy silicon carbide nanocomposites. <i>Polymer Engineering and Science</i> , 2017, 57, 1349-1355.	1.5	10
102	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.	1.8	10
103	Impact of Magnetic Field on Corona Discharge Behavior of Mineral Oil Under AC Voltage. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2022, 29, 1417-1424.	1.8	10
104	Understanding the impact of gamma irradiation on electrical and mechanical properties of epoxy nanocomposites. <i>Journal of Applied Polymer Science</i> , 2012, 125, 415-424.	1.3	9
105	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.	0.8	9
106	Understanding the influence of nano micro filler on electrical and mechanical behaviour of epoxy nanocomposites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019, 26, 1098-1106.	1.8	9
107	Formation of tungsten carbide nanoparticles by wire explosion process. <i>International Journal of Applied Ceramic Technology</i> , 2020, 17, 304-310.	1.1	9
108	Investigation on space charge dynamics and mechanical properties of Epoxy Alumina nanocomposites. <i>Materials Research Express</i> , 2020, 7, 025037.	0.8	9

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109	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.	1.2	9
110	Dielectric properties of mixed mineral and synthetic ester oil. <i>IET Science, Measurement and Technology</i> , 2020, 14, 704-714.	0.9	9
111	STUDIES ON GENERATION AND CHARACTERIZATION OF NANOALUMINA POWDER USING WIRE EXPLOSION TECHNIQUE. <i>International Journal of Nanoscience</i> , 2004, 03, 819-827.	0.4	8
112	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.	1.8	8
113	Feasibility study for detecting copper contaminants in transformer insulation using laser-induced breakdown spectroscopy. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 281-288.	1.1	8
114	Understanding incipient discharge characteristics in nano ester oil under AC/DC voltages adopting UHF technique. , 2018, , .		8
115	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.	1.9	8
116	Understanding the influence of ambience on thermal ageing of natural ester liquid. <i>IET Science, Measurement and Technology</i> , 2019, 13, 123-130.	0.9	8
117	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	8
118	Understanding the dielectric and mechanical properties of self-passivated Al ³⁺ epoxy nanocomposites. <i>IET Science, Measurement and Technology</i> , 2019, 13, 1336-1344.	0.9	8
119	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, 29, 956-964.	1.8	8
120	Influence of Nano Aluminium Powder Produced by Wire Explosion Process at Different Ambience on Hydrogen Generation. <i>Journal of Electrical Engineering</i> , 2010, 61, 215-221.	0.4	7
121	Understanding treeing phenomena and space charge effect in gamma-irradiated XLPE cable insulation. <i>Electrical Engineering</i> , 2011, 93, 199-207.	1.2	7
122	Understanding the Mechanism of Nanoparticle Formation in a Wire Explosion Process by Adopting the Optical Emission Technique. <i>Plasma Science and Technology</i> , 2013, 15, 562-569.	0.7	7
123	Understanding water droplet initiated discharges on epoxy nanocomposites under harmonic AC voltages adopting uhf technique. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2014, 21, 918-925.	1.8	7
124	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, 235601.	1.3	7
125	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.	1.6	7
126	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.	1.5	7

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127	Dynamical aspects of nanoparticle formation by wire explosion process. Nano Express, 2020, 1, 010049.	1.2	7
128	Influence of Gamma Irradiation and Water Aging on the Space Charge Characteristics of Epoxy Micro-Nano Composites. Polymers, 2021, 13, 964.	2.0	7
129	Impact of adding activated bentonite to thermally aged ester-based TiO ₂ nanofluids on insulation performance. IET Nanodielectrics, 2021, 4, 63-74.	2.0	7
130	Understanding the electrical, thermal, and mechanical properties of epoxy magnesium oxide nanocomposites. IET Science, Measurement and Technology, 2019, 13, 632-639.	0.9	7
131	Understanding the dielectric properties and electromagnetic shielding efficiency of zirconia filled epoxy-MWCNT composites. Engineering Research Express, 2022, 4, 015008.	0.8	7
132	Investigation on the Electrical and Rheological Properties of AlN-Based Synthetic Ester Nanofluids. IEEE Access, 2022, 10, 37495-37505.	2.6	7
133	Planar Ultrawideband Circularly Polarized Cosine Slot Archimedean Spiral Antenna for Partial Discharge Detection. IEEE Access, 2022, 10, 35701-35711.	2.6	7
134	Understanding the incipient discharge activity in liquid nitrogen under AC voltage by adopting UHF technique. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 707-713.	1.8	6
135	Generation and Characterization of Zirconium Carbide Nanoparticles by Wire Explosion Process. Materials Transactions, 2012, 53, 1420-1424.	0.4	6
136	Optical emission spectroscopy study on flashover along insulator surface due to particle contamination. Laser and Particle Beams, 2014, 32, 681-689.	0.4	6
137	Thermodynamic Modelling and Characterisation of TiO ₂ nanoparticles Produced by Wire Explosion Process. Materials Today: Proceedings, 2018, 5, 17304-17311.	0.9	6
138	Investigation on Insulation Performance of Thermally Aged Natural Ester Oil Impregnated Pressboard. IET Science, Measurement and Technology, 2019, 13, 1194-1202.	0.9	6
139	Understanding the water droplet initiated discharges on gamma irradiated silicone rubber insulation. Polymer Engineering and Science, 2019, 59, 182-191.	1.5	6
140	Analysis of space charge and charge trap characteristics of gamma irradiated silicone rubber nanocomposites. IET Nanodielectrics, 2020, 3, 44-52.	2.0	6
141	Investigation on the performance of thermally aged natural ester fluid impregnated pressboard material. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 1578-1586.	1.8	6
142	Effect of nanoclay on mechanical, thermal and morphological properties of silicone rubber and EPDM/silicone rubber hybrid composites. Advances in Materials and Processing Technologies, 2021, 7, 109-116.	0.8	6
143	Influence of Water, Acid Rain and Bentonite on Ionization Characteristics of Sand under Lightning Impulse Voltage. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 897-905.	1.8	6
144	Use of LIBS technique for identification of type of pollutant and ESDD level on epoxy-alumina nanocomposites using ANN. Measurement Science and Technology, 2021, 32, 115201.	1.4	6

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145	Synthesis of multiphase binary eutectic Al-Mg 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.	2.8	6
146	Ageing impact on the surface condition of silicone rubber micro nanocomposites adopting AFM studies. <i>Journal of Polymer Research</i> , 2022, 29, 1.	1.2	6
147	Performance evaluation of room temperature vulcanized silicone rubber nanocomposites aged in strong aqueous solutions. <i>Polymer Engineering and Science</i> , 2022, 62, 1619-1630.	1.5	6
148	Investigations of surface degradation of high-density polyethylene materials resulting from tracking, using physicochemical analysis. <i>Journal of Applied Polymer Science</i> , 2002, 83, 2843-2849.	1.3	5
149	Investigations of surface characterization of silicone rubber due to tracking phenomena under a.c. and d.c. voltages. <i>Bulletin of Materials Science</i> , 2002, 25, 473-475.	0.8	5
150	Analysis of surface degradation of silicone rubber due to tracking?A physicochemical approach. <i>Journal of Applied Polymer Science</i> , 2003, 88, 2392-2399.	1.3	5
151	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> , 2006, 36, 53-58.	0.6	5
152	Production and Characterization of Nano Copper Powder Using Pulsed Power Technique. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2006, 36, 127-130.	0.6	5
153	Characterization of Partial Discharges in a Gas Insulated System Using an Acoustic Emission Technique. <i>Electric Power Components and Systems</i> , 2006, 34, 653-669.	1.0	5
154	Understanding the partial discharge activity of conducting particles in GIS under DC voltages using the UHF technique. <i>European Transactions on Electrical Power</i> , 2010, 20, 591-599.	1.0	5
155	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.	1.8	5
156	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.	1.8	5
157	Partial Discharge Source Classification using Time-Frequency Transformation. , 2018, , .		5
158	Synthesis and Photocatalytic Activity of Anatase/Rutile TiO ₂ Nanoparticles by Wire Explosion Process. <i>INAE Letters</i> , 2018, 3, 189-196.	1.0	5
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