

# Yoshimichi Ohki

## List of Publications by Year in descending order

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213  
papers

3,656  
citations

147726

31  
h-index

168321

53  
g-index

215  
all docs

215  
docs citations

215  
times ranked

2282  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoluminescence from defect centers in high-purity silica glasses observed under 7.9-eV excitation. Physical Review B, 1992, 45, 586-591.	1.1	393
2	Effects of nano-filler addition on partial discharge resistance and dielectric breakdown strength of Micro-Al <sub>2</sub> O <sub>3</sub> Epoxy composite. IEEE Transactions on Dielectrics and Electrical Insulation, 2010, 17, 653-661.	1.8	151
3	Electric modulus powerful tool for analyzing dielectric behavior. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 929-931.	1.8	141
4	Development of epoxy/BN composites with high thermal conductivity and sufficient dielectric breakdown strength part I - sample preparations and thermal conductivity. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 1963-1972.	1.8	138
5	Possible mechanisms of superior resistance of polyamide nanocomposites to partial discharges and plasmas. IEEE Transactions on Dielectrics and Electrical Insulation, 2008, 15, 161-169.	1.8	85
6	Development of epoxy/BN composites with high thermal conductivity and sufficient dielectric breakdown strength part II-breakdown strength. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 1973-1983.	1.8	84
7	Superiority of dielectric properties of LDPE/MgO nanocomposites over microcomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2009, 16, 1735-1742.	1.8	75
8	Treeing Phenomena in Epoxy/Alumina Nanocomposite and Interpretation by a Multi-core Model. IEEE Transactions on Fundamentals and Materials, 2006, 126, 1128-1135.	0.2	73
9	Observation and Analysis of Molecular Vibration Modes in Polylactide at Terahertz Frequencies. Japanese Journal of Applied Physics, 2010, 49, 102402.	0.8	73
10	Band-tail photoluminescence in hydrogenated amorphous silicon oxynitride and silicon nitride films. Journal of Applied Physics, 2003, 93, 239-244.	1.1	72
11	Similarities in photoluminescence in hafnia and zirconia induced by ultraviolet photons. Journal of Applied Physics, 2005, 97, 054104.	1.1	71
12	The role of nano and micro particles on partial discharge and breakdown strength in epoxy composites. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 675-681.	1.8	71
13	Detection of norovirus virus-like particles using a surface plasmon resonance-assisted fluoroimmunosensor optimized for quantum dot fluorescent labels. Biosensors and Bioelectronics, 2017, 93, 260-266.	5.3	70
14	Degradation mechanisms of silicone rubber under different aging conditions. Polymer Degradation and Stability, 2019, 168, 108936.	2.7	65
15	Charge transport and electrode polarization in epoxy resin at high temperatures. Journal Physics D: Applied Physics, 2014, 47, 045311.	1.3	62
16	Tree initiation phenomena in nanostructured epoxy composites. IEEE Transactions on Dielectrics and Electrical Insulation, 2010, 17, 1509-1515.	1.8	59
17	Terahertz spectroscopy as a new tool for insulating material analysis and condition monitoring. IEEE Electrical Insulation Magazine, 2011, 27, 26-35.	1.1	59
18	Experimental investigation of the degradation mechanism of silicone rubber exposed to heat and gamma rays. High Voltage, 2017, 2, 92-101.	2.7	56

#	ARTICLE	IF	CITATIONS
19	Tree initiation characteristics of epoxy resin and epoxy/clay nanocomposite. IEEE Transactions on Dielectrics and Electrical Insulation, 2009, 16, 1473-1480.	1.8	54
20	Terahertz Time-Domain Spectroscopic Analysis of Molecular Behavior in Polyamide Nanocomposites. Applied Physics Express, 2008, 1, 122401.	1.1	53
21	Improvement of Radiation Resistance of Pure Silica Core Fibers by Hydrogen Treatment. Japanese Journal of Applied Physics, 1985, 24, 1224-1228.	0.8	50
22	Precise location of the excessive temperature points in polymer insulated cables. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 2099-2106.	1.8	49
23	Effects of the structure and insulation material of a cable on the ability of a location method by FDR. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 77-84.	1.8	49
24	Effect of implanted ion species on the decay kinetics of 2.7 eV photoluminescence in thermal SiO <sub>2</sub> films. Journal of Applied Physics, 1996, 80, 6444-6447.	1.1	46
25	Photoluminescence study on point defects in buried SiO <sub>2</sub> film formed by implantation of oxygen. Journal of Applied Physics, 1996, 79, 412-416.	1.1	43
26	Observation of water trees using terahertz spectroscopy and time-domain imaging. IEEE Transactions on Dielectrics and Electrical Insulation, 2011, 18, 1570-1577.	1.8	37
27	Comparison of nano-structuration effects in polypropylene among four typical dielectric properties. IEEE Transactions on Dielectrics and Electrical Insulation, 2010, 17, 671-677.	1.8	36
28	Terahertz absorption spectra of oxidized polyethylene and their analysis by quantum chemical calculations. Japanese Journal of Applied Physics, 2014, 53, 092402.	0.8	35
29	Frequency dependence of breakdown performance of XLPE with different artificial defects. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 1351-1359.	1.8	33
30	Filler-content Dependence of Dielectric Properties of Low-Density Polyethylene/MgO Nanocomposites. IEEJ Transactions on Fundamentals and Materials, 2006, 126, 1072-1077.	0.2	31
31	Aging of poly(ether ether ketone) by heat and gamma rays " Its degradation mechanism and effects on mechanical, dielectric and thermal properties. Polymer Degradation and Stability, 2017, 142, 117-128.	2.7	31
32	Improving Epoxy-based Insulating Materials with Nano-fillers toward Practical Application. Electrical Insulation, IEEE International Symposium on, 2008, , .	0.0	28
33	Diagnosis of cable aging by broadband impedance spectroscopy. , 2011, , .		27
34	Comparison of broadband impedance spectroscopy and time domain reflectometry for locating cable degradation. , 2012, , .		27
35	Time-resolved photoluminescence study of hydrogenated amorphous silicon nitride. Physical Review B, 2000, 62, 1532-1535.	1.1	26
36	Space Charge Formation and Charge Transport in Epoxy Resin at Varied Temperatures. IEEJ Transactions on Fundamentals and Materials, 2015, 135, 88-93.	0.2	26

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37	Improvement in sensitivity of broadband impedance spectroscopy for locating degradation in cable insulation by ascending the measurement frequency. , 2012, , .		23
38	Location attempt of a degraded portion in a long polymer-insulated cable. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 2461-2466.	1.8	23
39	Preparation and Various Characteristics of Epoxy/Alumina Nanocomposites. IEEJ Transactions on Fundamentals and Materials, 2006, 126, 1121-1127.	0.2	22
40	Aging Behavior of Flame-retardant Cross-linked Polyolefin under Thermal and Radiation Stresses. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 303-309.	1.8	22
41	Effect of Glass Transition on Electrical Conduction Characteristics of Poly-L-lactic Acid. IEEJ Transactions on Fundamentals and Materials, 2005, 125, 254-260.	0.2	21
42	Terahertz spectral change associated with glass transition of poly- $\hat{\mu}$ -caprolactone. Journal of Applied Physics, 2015, 117, .	1.1	21
43	Effects of gamma irradiation on the degradation of silicone rubber by steam exposure. Journal of Nuclear Science and Technology, 2021, 58, 166-172.	0.7	21
44	Effects of Heat and Gamma-rays on Mechanical and Dielectric Properties of Cross-linked Polyethylene. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 1998-2006.	1.8	21
45	Space charge behavior in multi-layered dielectrics with LDPE and LDPE/MgO nanocomposites. , 2010, , .		19
46	Effects of crystallinity on dielectric properties of poly(L-lactide). Electronics and Communications in Japan, 2011, 94, 1-8.	0.3	19
47	Effects of ultraviolet photon irradiation on the transition metal impurities in LaAlO <sub>3</sub> . Journal of Applied Physics, 2011, 110, .	1.1	19
48	A new method for estimating the content of vinyl acetate in ethylene-vinyl acetate copolymer. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 1260-1265.	1.8	19
49	Detection of abnormality occurring over the whole cable length by frequency domain reflectometry. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 2467-2469.	1.8	19
50	Synthesis and characterization of metal-dielectric composites with copper nanoparticles embedded in a glass matrix: A multitechnique approach. Journal of Applied Physics, 2005, 98, 054301.	1.1	18
51	Dielectric properties of poly(ethylene terephthalate) and poly(ethylene 2,6-naphthalate). IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 2310-2317.	1.8	18
52	Temperature Dependence of Complex Permittivity in Biodegradable Polybutylene Succinate. IEEJ Transactions on Fundamentals and Materials, 2008, 128, 647-651.	0.2	17
53	Effect of tacticity on the dielectric properties of polystyrene. IEEJ Transactions on Electrical and Electronic Engineering, 2011, 6, 299-303.	0.8	17
54	Effects of interaction between filler and resin on the glass transition and dielectric properties of epoxy resin nanocomposites. IET Nanodielectrics, 2019, 2, 92-96.	2.0	17

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55	How to Install TEMPO in Dielectric Polymers—Their Rational Design toward Energy-Storeable Materials. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1800734.	2.0	17
56	Comparison of the effects of heat and gamma irradiation on the degradation of cross-linked polyethylene. <i>IEEE Transactions on Electrical and Electronic Engineering</i> , 2020, 15, 24-29.	0.8	17
57	Mechanisms of several photoluminescence bands in hafnium and zirconium silicates induced by ultraviolet photons. <i>Journal of Applied Physics</i> , 2006, 99, 094106.	1.1	16
58	Rejuvenation of retired power cables by heat treatment. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019, 26, 668-670.	1.8	16
59	Degradation of Mechanical and Dielectric Properties of Flame-Retardant Ethylene Propylene Rubber by Thermal Aging. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2020, 15, 488-495.	0.8	16
60	Broadband Complex Permittivity and Electric Modulus Spectra for Dielectric Materials Research. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2022, 17, 958-972.	0.8	16
61	Ferroelectricity of single-crystalline, monodisperse lead zirconate titanate nanoparticles of 9 nm in diameter. <i>Applied Physics Letters</i> , 2004, 85, 2325-2327.	1.5	15
62	Cr <sup>3+</sup> Impurities and Photoluminescence in LaAlO <sub>3</sub> . <i>Japanese Journal of Applied Physics</i> , 2010, 49, 091102.	0.8	15
63	Effects of addition of MgO fillers with various sizes and co-addition of nano-sized SiO <sub>2</sub> fillers on the dielectric properties of epoxy resin. , 2017, , .		15
64	Aging behavior of flame-retardant cross-linked polyethylene in nuclear power plant environments. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2019, 14, 1133-1138.	0.8	15
65	Degradation of flame-retardant ethylene-propylene-diene rubber by radiation and steam. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2020, 15, 1572-1579.	0.8	15
66	Tree initiation and growth in LDPE/MgO nanocomposites and roles of nano fillers. , 2009, , .		13
67	Enhanced conductivity of polyaniline in the presence of nonionic amphiphilic polymers and their diverse morphologies. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45547.	1.3	13
68	Identification of antioxidants in polymeric insulating materials by terahertz absorption spectroscopy. <i>Polymer Degradation and Stability</i> , 2018, 147, 284-290.	2.7	13
69	Dielectric and relaxation properties of composites of epoxy resin and hyperbranched-polyester-treated nanosilica. <i>RSC Advances</i> , 2018, 8, 30669-30677.	1.7	13
70	Comparison of degradation behavior between soft and hard epoxy resins. <i>Journal of Nuclear Science and Technology</i> , 2021, 58, 620-628.	0.7	13
71	Partial Discharge Degradation of Several Biodegradable Polymers. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2007, 127, 459-466.	0.2	13
72	Effects of Crystallinity on Dielectric Properties of Poly (L-lactide). <i>IEEJ Transactions on Fundamentals and Materials</i> , 2009, 129, 217-222.	0.2	13

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73	Degradation of Soft Epoxy Resin for Cable Penetrations Induced by Simulated Severe Accidents. Energies, 2021, 14, 6932.	1.6	13
74	Complex Permittivity Spectra of Various Insulating Polymers at Ultrawide-Band Frequencies. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2017, 198, 11-18.	0.2	12
75	Terahertz spectroscopic estimation of crystallinity of poly(phenylene sulfide). Journal of Applied Polymer Science, 2018, 135, 46427.	1.3	12
76	Various Characteristics of Severely Aged Flame-Retardant Cross-Linked Polyolefin. IEEJ Transactions on Electrical and Electronic Engineering, 2021, 16, 1556-1562.	0.8	12
77	Suppression of packet-like space charge formation in LDPE by the addition of magnesia nanofillers. , 2009, , .		11
78	Crystallinity of poly(ethylene naphthalate) and its relation to terahertz absorption. Japanese Journal of Applied Physics, 2017, 56, 032402.	0.8	11
79	Location Feasibility of Degradation in Cable through Fourier Transform Analysis of Broadband Impedance Spectra. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 122-128.	0.2	11
80	Various bonding forms of OH groups in hydrogen-treated silica. Journal of Applied Physics, 1993, 74, 2378-2380.	1.1	10
81	Temperature effects on luminescence properties of Cr <sup>3+</sup> ions in alkali gallium silicate nanostructured media. Journal of Applied Physics, 2005, 98, 054302.	1.1	10
82	Diagnosis of surface degradation of flame-retardant ethylene propylene diene copolymer by scanning probe microscopy. Journal of Nuclear Science and Technology, 2016, 53, 82-88.	0.7	10
83	Correlation between indenter modulus and elongation-at-break observed for four electrical insulating polymers. , 2017, , .		10
84	Aiming at a more rigorous understanding in electrical insulating materials research. IEEE Transactions on Dielectrics and Electrical Insulation, 2008, 15, 1201-1214.	1.8	9
85	Charge transport characteristics in epoxy resin at high temperatures based on electrode polarization analysis. , 2013, , .		9
86	Estimation of gel fraction of polyethylene cross-linked with silane by far-infrared absorption spectroscopy. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 1500-1505.	1.8	9
87	Terahertz spectroscopic analysis of crystal growth in poly(ethylene naphthalate). Japanese Journal of Applied Physics, 2017, 56, 072401.	0.8	9
88	Effect of Water Treatment Temperature on Space Charge Profiles in Printed Circuit Board Insulations. IEEJ Transactions on Fundamentals and Materials, 2006, 126, 709-715.	0.2	9
89	Thermally Stimulated Current in Low-density Polyethylene/MgO Nanocomposite -On the Mechanism of its Superior Dielectric Properties-. IEEJ Transactions on Fundamentals and Materials, 2009, 129, 97-102.	0.2	9
90	Electrical breakdown characteristics of ethylene-styrene copolymers.. IEEJ Transactions on Fundamentals and Materials, 1986, 106, 473-479.	0.2	8

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91	Electrical breakdown characteristics of copolymers of ethylene and various aromatic monomers. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 1988, 108, 1-15.	0.2	8
92	Dielectric Properties of Polybutylene Succinate and Polybutylene Succinate Adipate. , 2007, , .		8
93	Effects of Ultraviolet Photon Irradiation on the Dielectric Properties of Biodegradable Polymers. IEEJ Transactions on Fundamentals and Materials, 2007, 127, 115-120.	0.2	8
94	High field light emission in LDPE/MgO nanocomposite. , 2008, , .		8
95	Comparison of Dielectric Properties of Olefin Thermosetting Polydicyclopentadiene and Epoxy Resin. IEEJ Transactions on Fundamentals and Materials, 2015, 135, 82-87.	0.2	8
96	Involvement of crystallinity in various luminescent bands in yttrium aluminate. Nuclear Instruments & Methods in Physics Research B, 2016, 366, 198-205.	0.6	8
97	Broadband FIR absorption spectra of low-density polyethylene sheets containing six different antioxidants and estimation of their contents by chemometric analysis. High Voltage, 2019, 4, 161-166.	2.7	8
98	Terahertz absorption spectra of several polymer nanocomposites indicating polymer-filler interactions. AIP Advances, 2019, 9, .	0.6	8
99	Filler-dependent changes in thermal, dielectric, and mechanical properties of epoxy resin nanocomposites. IEEJ Transactions on Electrical and Electronic Engineering, 2021, 16, 15-20.	0.8	8
100	Estimation of Talc Contents in Ethylene-Propylene-Diene Copolymer by Terahertz Absorption Spectroscopy. IEEJ Transactions on Fundamentals and Materials, 2016, 136, 81-85.	0.2	8
101	Dielectric absorption behavior of YAlO <sub>3</sub> at terahertz frequencies. Japanese Journal of Applied Physics, 2017, 56, 102601.	0.8	8
102	Degradation of Flame-Retardant Cross-Linked Polyethylene Caused by Heat, Gamma-Rays, and Steam. IEEE Access, 2022, 10, 62164-62172.	2.6	8
103	Plasma polymer surface layer for suppression of charge injection into polyethylene. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 1988, 108, 24-30.	0.2	7
104	Photoluminescence in polyamide/mica and polyethylene/ MgO nanocomposites induced by ultraviolet photons. IEEE Transactions on Dielectrics and Electrical Insulation, 2008, 15, 1215-1223.	1.8	7
105	Suppression of Charge Injection into LDPE by Addition of MgO Nanofillers. IEEJ Transactions on Fundamentals and Materials, 2008, 128, 742-743.	0.2	7
106	Highly sensitive location method of an abnormal temperature point in a cable by frequency domain reflectometry. , 2013, , .		7
107	Dielectric relaxation phenomena of several insulating polymers analyzed by electric modulus spectra. , 2015, , .		7
108	Electronic excitation and relaxation processes of oxygen vacancies in YSZ and their involvement in photoluminescence. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	7

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109	Terahertz spectroscopic analysis of crystal orientation in polymers. Japanese Journal of Applied Physics, 2018, 57, 050302.	0.8	7
110	Facile Synthesis of Isotactic Polyacrylonitrile via Template Polymerization in Interlayer Space for Dielectric Energy Storage. ACS Applied Polymer Materials, 2020, 2, 775-781.	2.0	7
111	Effects of Additives, Photodegradation, and Water-tree Degradation on the Photoluminescence in Polyethylene and Polypropylene. IEEJ Transactions on Fundamentals and Materials, 2004, 124, 624-630.	0.2	6
112	Dielectric Properties of Low-Density Polyethylene/MgO Nanocomposites. , 2006, , .		6
113	Need for condition monitoring and diagnosis of electric wires and cables used in nuclear power plants. , 2008, , .		6
114	Role of nano-filler on partial discharge resistance and dielectric breakdown strength of micro-Al <sub>2</sub> O <sub>3</sub> / epoxy composites. , 2009, , .		6
115	Experimental observations on the crystalline structures of YAlO <sub>3</sub> single crystal at high temperatures. Applied Physics A: Materials Science and Processing, 2015, 119, 1423-1429.	1.1	6
116	Effect of Water Absorption Temperature on Space Charge Profiles in Paper/phenol-resin Composites for Printed Circuit Boards. IEEJ Transactions on Fundamentals and Materials, 2008, 128, 585-590.	0.2	6
117	Factors Determining the Partial Discharge Resistance of Polymers. IEEJ Transactions on Fundamentals and Materials, 2013, 133, 75-80.	0.2	6
118	Three-dimensional Space Charge Distribution in Glass Fiber/Epoxy Composites. , 2006, , .		5
119	Generation mechanism of electrochemical migration in printed wiring board insulation. IEEJ Transactions on Electrical and Electronic Engineering, 2011, 6, 200-206.	0.8	5
120	Terahertz spectroscopic observation of oxidation of ethylene-propylene-diene-copolymer. , 2015, , .		5
121	Dielectric properties of nanocomposites based on epoxy resin and HBP/plasma modified nanosilica. AIP Advances, 2020, 10, 045015.	0.6	5
122	Insulation Performance of Safety-related Cables for Nuclear Power Plants under Simulated Severe Accident Conditions. IEEJ Transactions on Fundamentals and Materials, 2019, 139, 54-59.	0.2	5
123	Effect of plasma surface modification on electrical conduction in polyethylene. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 1991, 111, 17-24.	0.2	4
124	Effects of Humidity and Temperature on Space Charge Distribution Profiles in Printed Circuit Board Insulations. , 2007, , .		4
125	Nano-clay and micro-silica mixed composites for insulating materials for environmentally-conscious switchgear. , 2009, , .		4
126	Tree initiation time evaluation of epoxy/silica composites by partial discharge detection. , 2009, , .		4

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127	High thermal conductivity epoxy/BN composites with sufficient dielectric breakdown strength. , 2011, , .		4
128	Similarity in degradation behavior by heat and irradiation between ethylene-propylene-diene rubber and silicone rubber. , 2017, , .		4
129	Insulation performance of safety-related cables for nuclear power plants under simulated severe accident conditions. , 2017, , .		4
130	Effects of ultraviolet photon irradiation and subsequent thermal treatments on solution-processed amorphous indium gallium zinc oxide thin films. AIP Advances, 2018, 8, .	0.6	4
131	Location Attempt of Multiple Heated Spots in a Polymer-insulated Coaxial Cable by Frequency Domain Reflectometry. , 2018, , .		4
132	Identification and quantification of phenol-type antioxidants in low-density polyethylene by broadband far-infrared spectroscopy. Polymer Testing, 2019, 76, 10-18.	2.3	4
133	Effects of metal content on electrical and physical properties in solution-processed IGZO thin films. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	4
134	Numerical evaluation of complex permittivity of silicone rubber based on Jonscher's law. IEEJ Transactions on Electrical and Electronic Engineering, 2020, 15, 658-662.	0.8	4
135	Spatial Resolution between Two Abnormalities in a Cable by Frequency Domain Reflectometry. IEEJ Transactions on Electrical and Electronic Engineering, 2021, 16, 822-826.	0.8	4
136	Pros and Cons of THz and Far-infrared Absorption Spectroscopy for Dielectric Materials Research. IEEJ Transactions on Fundamentals and Materials, 2021, 141, 521-526.	0.2	4
137	Electrical Conduction and Dielectric Relaxation in Polyethylene Terephthalate Succinate. IEEJ Transactions on Fundamentals and Materials, 2008, 128, 490-496.	0.2	4
138	Correlation between Mechanical and Dielectric Relaxation Processes in Epoxy Resin Composites with Nano- and Micro-fillers. IEEJ Transactions on Fundamentals and Materials, 2011, 131, 1041-1047.	0.2	4
139	Detection of Overheated Parts in Low-density Polyethylene by Terahertz Absorption Spectroscopy and Imaging. IEEJ Transactions on Fundamentals and Materials, 2016, 136, 603-608.	0.2	4
140	Fabrication of two-dimensional photonic structure of titanium dioxide with sub-micrometer resolution by deep x-ray lithography. Materials Research Society Symposia Proceedings, 2004, 820, 300.	0.1	3
141	Effects of Temperature and Crystallinity on Partial Discharge Resistance of Poly-L-lactic Acid. IEEJ Transactions on Electrical and Electronic Engineering, 2010, 5, 323-327.	0.8	3
142	Chemiluminescence as a clear diagnostic tool of polymer oxidation. , 2012, , .		3
143	Experimental study on the factors determining the partial discharge resistance of polymers. , 2012, , .		3
144	Development of Low Loss Magnetodielectric Nanocomposites of Epoxy Resin and Iron Nanoparticles. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2015, 190, 17-23.	0.2	3

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145	Aging State Analysis of Safety-related Cables for Nuclear Power Plants Exposed to Simulated Accident Conditions. , 2018, , .		3
146	Relation Between the Glass Transition and Dielectric Properties in Bisphenol A and F Epoxy Resins. , 2019, , .		3
147	Quantum Chemical and Spectroscopic Study on Hydrogen Bonds in Hairpin DNA. IEEJ Transactions on Electrical and Electronic Engineering, 2022, 17, 43.	0.8	3
148	Optical Characterization and Computational Chemical Evaluation of Electronic Localized States in Polyolefin. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 760-766.	0.2	3
149	Effects of Resin/Filler Adhesion on the Thermal and Electrical Conductivity of Polyimide Nanocomposites. Journal of Composites Science, 2021, 5, 272.	1.4	3
150	Status Quo and Trends of Insulation Monitoring and Diagnosis Methods for Electric Power Apparatus in Japan. IEEJ Transactions on Power and Energy, 2004, 124, 496-503.	0.1	2
151	Nano- and micro-filler combination enabling practical use of nanocomposite insulating materials. , 2008, , .		2
152	Superiority of syndiotactic polystyrene as an electrical insulating polymer. , 2011, , .		2
153	Crystalline structures of $\text{YAlO}_3$ ; single crystal at high temperatures. , 2014, , .		2
154	Dielectric properties of three liquid crystal polymers. IEEJ Transactions on Electrical and Electronic Engineering, 2015, 10, 609-613.	0.8	2
155	Terahertz and far-infrared spectroscopic estimation of vinyl acetate content in ethylene-vinyl acetate copolymer. , 2015, , .		2
156	Far-infrared Absorption of Deoxyribonucleic Acid with Thymine. Electronics and Communications in Japan, 2017, 100, 53-60.	0.3	2
157	Terahertz absorption spectroscopy of poly(ether ether ketone). , 2017, , .		2
158	Several Experimental Results Indicating Filler/Polymer Interactions in Polymer Nanocomposites. , 2018, , .		2
159	Fluorescence imaging of <i>Escherichia coli</i> on a rotating optical disk. Japanese Journal of Applied Physics, 2018, 57, 088003.	0.8	2
160	Degradation in Mechanical and Dielectric Properties of Silicone Rubber under Severe Aging Conditions. , 2019, , .		2
161	Insulation Performance of Safety-Related Electrical Penetrations for Pressurized Water Reactors under Simulated Severe Accident Conditions. IEEJ Transactions on Fundamentals and Materials, 2021, 141, 552-559.	0.2	2
162	Space Charge Distributions in Two-layered LDPE/MgO Nanocomposites Exhibiting Superior Insulation Performance. IEEJ Transactions on Fundamentals and Materials, 2010, 130, 349-354.	0.2	2

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163	Inverse Proportionality of Thermal Conductivity and Complex Permittivity to Filler-Diameter in Epoxy Resin Composites with Silica. Journal of Composites Science, 2021, 5, 266.	1.4	2
164	Effects of Ultraviolet Photon Irradiation on the Dielectric Properties of Polyimide. IEEJ Transactions on Fundamentals and Materials, 2004, 124, 98-103.	0.2	2
165	Terahertz and Far-infrared Absorption Spectroscopic Study of DNA Bases. , 2020, , .		2
166	Properties of Polyethylene Blend as a Non-crosslinked Insulating Material for Power Cable. IEEJ Transactions on Fundamentals and Materials, 2004, 124, 817-822.	0.2	1
167	High thermal conductivity epoxy/BN composites with sufficient dielectric breakdown strength. , 2011, , .		1
168	Experimental and numerical analyses of molecular vibrations in poly-ε-caprolactone at terahertz frequencies. , 2011, , .		1
169	Terahertz spectroscopy as a novel method for diagnosing the integrity of polymer insulated cables. , 2012, , .		1
170	Space charges induced in polymers by electron beam irradiation and their decay profiles. , 2013, , .		1
171	Analysis on thermally stimulated currents in polyethylene-terephthalate and polyethylene-naphthalate. , 2014, , .		1
172	Structural change induced in LaAlO <sub>3</sub> by ion implantation. IEEJ Transactions on Electrical and Electronic Engineering, 2016, 11, 5-9.	0.8	1
173	Effects of Heat and Radiation Aging and Burning on the Surface Physical Properties of Polymer-Insulated Cables. , 2018, , .		1
174	Development of a Sub-micron Processing Method with Ion Implantation. IEEJ Transactions on Fundamentals and Materials, 2005, 125, 69-70.	0.2	1
175	Comparisons of Partial Discharge Resistance and Dielectric Properties after Water Absorption between Polyetherimide and Aramid Insulating Papers. IEEJ Transactions on Fundamentals and Materials, 2013, 133, 51-56.	0.2	1
176	Technology 2004: Reviews and Forecasts. IEEJ Transactions on Fundamentals and Materials, 2004, 124, 2-2.	0.2	1
177	High Resolution Three-dimensional Space Charge Distribution Measurement System. IEEJ Transactions on Fundamentals and Materials, 2006, 126, 185-190.	0.2	1
178	Radiation resistance of ethylene-styrene copolymers.. IEEJ Transactions on Fundamentals and Materials, 1988, 108, 335-342.	0.2	1
179	Electrical breakdown characteristics of plasma-copolymerized thin films from allylamine and ethylene.. IEEJ Transactions on Fundamentals and Materials, 1988, 108, 103-110.	0.2	1
180	Influence of morphology on electrical breakdown characteristics of ethylene-styrene copolymers.. IEEJ Transactions on Fundamentals and Materials, 1988, 108, 321-328.	0.2	1

#	ARTICLE	IF	CITATIONS
181	Terahertz Imaging of Iron Powder in Low Density Polyethylene Sheets. IEEJ Transactions on Fundamentals and Materials, 2017, 137, 311-312.	0.2	1
182	Effects of Surface Treatment of Fillers on the Dielectric Properties of Polyimide Nanocomposites. , 2020, , .		1
183	Dielectric properties and ESCA study of plasma polymerized ethylene. , 1982, , .		0
184	Three-Dimensional Lithography for Rutile TiO <sub>2</sub> Single Crystals using Swift Heavy Ions. Materials Research Society Symposia Proceedings, 2003, 797, 75.	0.1	0
185	Aiming at a more rigorous understanding in electrical insulating materials research. , 2007, , .		0
186	Experimental study on the dielectric properties of a liquid crystal polymer. , 2013, , .		0
187	Structural change induced in LaAlO <sub>3</sub> by ion implantation. , 2014, , .		0
188	Space charges remaining in polymers after electron beam irradiation and the role of conductivity in their decay profiles. IEEJ Transactions on Electrical and Electronic Engineering, 2015, 10, 237-241.	0.8	0
189	Terahertz spectroscopic diagnosis of degradation of ethylene-propylene-diene copolymer. , 2016, , .		0
190	A Monitoring Method of Additives in a Copper Sulfate Plating Solution Using a Near-Field Optical Sensor. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2016, 67, 575-580.	0.1	0
191	Dielectrophoresis-assisted SPRF illumination biosensor for selective detection of biological substances. , 2017, , .		0
192	Terahertz absorption spectra of polyphenylene sulfide sheets with different degrees of crystallinity. , 2017, , .		0
193	Terahertz absorption spectra of antioxidants in insulating polymers. , 2017, , .		0
194	A Significant Contribution of Dr. Hoashi to the Theory on Electric Circuits. , 2017, , .		0
195	Far-infrared Absorption of Deoxyribonucleic Acid with Thymine. IEEJ Transactions on Fundamentals and Materials, 2017, 137, 88-94.	0.2	0
196	Far-infrared Spectroscopic Identification of Seven Kinds of Antioxidants in Polymeric Insulation. , 2018, , .		0
197	Far-infrared Spectroscopic Identification of Seven Kinds of Antioxidants in Polymeric Insulation. , 2018, , .		0
198	Terahertz time-domain spectroscopic analyses on crystallinity of several organic polymers. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
199	Origins of Chemiluminescence in Polymeric Insulating Materials. , 2019, , .		0
200	Evaluation of Aging Status of Flame-retardant Cross-linked Polyethylene by Measuring Indenter Modulus. , 2019, , .		0
201	Degradation in Dielectric Behavior of Soft Epoxy Resin by Concurrent Aging with Heat and Radiation. , 2019, , .		0
202	Effects of Humidity and Temperature on Space Charge Distribution Profiles in Printed Circuit Board Insulations. Journal of Japan Institute of Electronics Packaging, 2007, 10, 148-151.	0.0	0
203	Terahertz Imaging of Water Trees Generated in Low-density Polyethylene. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 148-149.	0.2	0
204	Development of Low Loss Magneto-Dielectric Nanocomposites of Epoxy Resin and Iron Nanoparticles. IEEJ Transactions on Fundamentals and Materials, 2013, 133, 668-673.	0.2	0
205	Plasma polymer surface layer for suppression of charge injection into polyethylene.. IEEJ Transactions on Fundamentals and Materials, 1987, 107, 511-516.	0.2	0
206	Electrical breakdown characteristics of copolymers of ethylene and various aromatic monomers.. IEEJ Transactions on Fundamentals and Materials, 1987, 107, 415-422.	0.2	0
207	Possibility of Ethylene-styrene Copolymer Applying to Power Cable Insulator. IEEJ Transactions on Fundamentals and Materials, 1987, 107, 404-404.	0.2	0
208	Water-Tree Resistance of Ethylene-Styrene Copolymers. IEEJ Transactions on Fundamentals and Materials, 1989, 109, 464-464.	0.2	0
209	Effect of introduced fluorine on electrical breakdown characteristics of plasma polymer films.. IEEJ Transactions on Fundamentals and Materials, 1989, 109, 343-350.	0.2	0
210	Failure Aspects of Electronic Watt-hour Meters due to Direct Lightning Strikes to Distribution Lines. IEEJ Transactions on Power and Energy, 2017, 137, 766-776.	0.1	0
211	Comparison of Three Mechanical Parameters as Aging Indicators of Polymeric Insulation. , 2020, , .		0
212	Broadband Infrared Absorption Spectroscopy as a Tool for Dielectric Materials Research. , 2021, , .		0
213	Degradation of Flame-retardant Cross-linked Polyolefin Caused by Severe Aging Treatments. , 2021, , .		0