

# Zhongyang Cheng

## List of Publications by Year in descending order

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199  
papers

7,854  
citations

61857

43  
h-index

53109

85  
g-index

201  
all docs

201  
docs citations

201  
times ranked

5558  
citing authors

#	ARTICLE	IF	CITATIONS
1	An all-organic composite actuator material with a high dielectric constant. <i>Nature</i> , 2002, 419, 284-287.	13.7	985
2	High-dielectric-constant ceramic-powder polymer composites. <i>Applied Physics Letters</i> , 2000, 76, 3804-3806.	1.5	696
3	Ceramic-Polymer Composites with High Dielectric Constant. <i>Advanced Materials</i> , 2007, 19, 1369-1372.	11.1	552
4	High Electromechanical Responses in a Poly(vinylidene fluoride-trifluoroethylene-chlorofluoropolymer) Terpolymer. <i>Applied Physics Letters</i> , 2001, 78, 2360-2362.	11.1	287
5	Ferroelectric and electromechanical properties of poly(vinylidene fluoride-trifluoroethylene-chlorotrifluoroethylene) terpolymer. <i>Applied Physics Letters</i> , 2001, 78, 2360-2362.	1.5	280
6	Phase transitional behavior and piezoelectric properties of the orthorhombic phase of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - $\text{PbTiO}_3$ single crystals. <i>Applied Physics Letters</i> , 2001, 78, 3109-3111.	1.5	239
7	Temperature dependence of the dielectric constant of relaxor ferroelectrics. <i>Physical Review B</i> , 1998, 57, 8166-8177.	1.1	170
8	Improvement in electrical, thermal and mechanical properties of epoxy by filling carbon nanotube. <i>EXPRESS Polymer Letters</i> , 2008, 2, 40-48.	1.1	168
9	Dielectric behavior of lead magnesium niobate relaxors. <i>Physical Review B</i> , 1997, 55, 8165-8174.	1.1	150
10	Electrostrictive poly(vinylidene fluoride-trifluoroethylene) copolymers. <i>Sensors and Actuators A: Physical</i> , 2001, 90, 138-147.	2.0	148
11	DEVELOPMENT OF POLYMER-BASED COMPOSITES WITH HIGH DIELECTRIC CONSTANT. <i>Journal of Advanced Dielectrics</i> , 2011, 01, 389-406.	1.5	140
12	Critical thickness of crystallization and discontinuous change in ferroelectric behavior with thickness in ferroelectric polymer thin films. <i>Journal of Applied Physics</i> , 2001, 89, 2613-2616.	1.1	136
13	Investigation of glassy behavior of lead magnesium niobate relaxors. <i>Journal of Applied Physics</i> , 1996, 79, 8615-8619.	1.1	124
14	Poly(vinylidene fluoride-trifluoroethylene) based high performance electroactive polymers. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2004, 11, 299-311.	1.8	106
15	Dielectric relaxation behavior and its relation to microstructure in relaxor ferroelectric polymers: High-energy electron irradiated poly(vinylidene fluoride-trifluoroethylene) copolymers. <i>Journal of Applied Physics</i> , 2002, 92, 6749-6755.	1.1	102
16	Nano-clip based composites with a low percolation threshold and high dielectric constant. <i>Nano Energy</i> , 2016, 26, 550-557.	8.2	98
17	Preparation process and dielectric properties of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$ - $\text{P}(\text{VDF}-\text{CTFE})$ nanocomposites. <i>Composites Part B: Engineering</i> , 2014, 56, 284-289.	5.9	97
18	Dielectric characteristics of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}/\text{P}(\text{VDF}-\text{TrFE})$ nanocomposites. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 107, 597-602.	1.1	94

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19	BST-P(VDF-CTFE) nanocomposite films with high dielectric constant, low dielectric loss, and high energy-storage density. <i>Composites Part B: Engineering</i> , 2019, 168, 34-43.	5.9	94
20	Electromechanical properties of poly(vinylidene-fluoride-chlorotrifluoroethylene) copolymer. <i>Applied Physics Letters</i> , 2006, 88, 062904.	1.5	91
21	Transverse strain responses in the electrostrictive poly(vinylidene fluoride-trifluoroethylene) copolymer. <i>Applied Physics Letters</i> , 1999, 74, 1901-1903.	1.5	89
22	Structural Changes and Transitional Behavior Studied from Both Micro- and Macroscale in the High-Energy Electron-Irradiated Poly(vinylidene fluoride-trifluoroethylene) Copolymer. <i>Macromolecules</i> , 2002, 35, 664-672.	2.2	82
23	Thickness dependence of ferroelectric polarization switching in poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 582 Td (f	1.5	81
24	Process and Microstructure to Achieve Ultra-high Dielectric Constant in Ceramic-Polymer Composites. <i>Scientific Reports</i> , 2016, 6, 35763.	1.6	81
25	Field-Activated Electroactive Polymers. <i>MRS Bulletin</i> , 2008, 33, 183-187.	1.7	79
26	Dependence of threshold thickness of crystallization and film morphology on film processing conditions in poly(vinylidene fluoride-trifluoroethylene) copolymer thin films. <i>Journal of Applied Physics</i> , 2002, 92, 3111-3115.	1.1	75
27	Transverse strain responses in electrostrictive poly(vinylidene fluoride-trifluoroethylene) films and development of a dilatometer for the measurement. <i>Journal of Applied Physics</i> , 1999, 86, 2208-2214.	1.1	74
28	Magnetostrictive resonators as sensors and actuators. <i>Sensors and Actuators A: Physical</i> , 2013, 200, 2-10.	2.0	71
29	A wireless biosensor using microfabricated phage-interfaced magnetoelastic particles. <i>Sensors and Actuators A: Physical</i> , 2008, 144, 38-47.	2.0	70
30	High energy density with ultrahigh discharging efficiency obtained in ceramic-polymer nanocomposites using a non-ferroelectric polar polymer as matrix. <i>Nano Energy</i> , 2020, 70, 104551.	8.2	70
31	High-performance micromachined unimorph actuators based on electrostrictive poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 582 Td (f	1.5	69
32	Linear Electro-optic Effect of 0.88Pb(Zn1/3Nb2/3)O3-0.12PbTiO3Single Crystal. <i>Japanese Journal of Applied Physics</i> , 2000, 39, 141-145.	0.8	67
33	Metal-polymer nanocomposites with high percolation threshold and high dielectric constant. <i>Applied Physics Letters</i> , 2013, 103, 232903.	1.5	67
34	Quantitative experimental determination of site-specific magnetic structures by transmitted electrons. <i>Nature Communications</i> , 2013, 4, 1395.	5.8	66
35	Phase stabilities of -omorphotropic-phases in Pb(Zn1/3Nb2/3)O3-PbTiO3 single crystals. <i>Applied Physics Letters</i> , 2002, 80, 1918-1920.	1.5	64
36	Composition, temperature, and crystal orientation dependence of the linear electro-optic properties of Pb(Zn1/3Nb2/3)O3-PbTiO3 single crystals. <i>Applied Physics Letters</i> , 2000, 77, 1247-1249.	1.5	52

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37	All-organic dielectric nanocomposites using conducting polypyrrole nanoclips as filler. <i>Composites Science and Technology</i> , 2018, 167, 285-293.	3.8	51
38	Biosensor based on magnetostrictive microcantilever. <i>Applied Physics Letters</i> , 2006, 88, 073507.	1.5	50
39	Magnetostrictive Microcantilever as an Advanced Transducer for Biosensors. <i>Sensors</i> , 2007, 7, 2929-2941.	2.1	50
40	Dielectric composites with a high and temperature-independent dielectric constant. <i>Journal of Advanced Ceramics</i> , 2012, 1, 310-316.	8.9	49
41	Phase transition and phase stability in [110]-, [001]-, and [111]-oriented $0.68\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.32\text{PbTiO}_3$ single crystal under electric field. <i>Journal of Applied Physics</i> , 2008, 104, 024112.	1.1	48
42	The effect of salt and phage concentrations on the binding sensitivity of magnetoelastic biosensors for <i>Bacillus anthracis</i> detection. <i>Biotechnology and Bioengineering</i> , 2008, 101, 1014-1021.	1.7	45
43	Dielectric and energy-storage performance of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3\text{-SiO}_2$ ceramic-glass composites. <i>Journal of Alloys and Compounds</i> , 2018, 745, 127-134.	2.8	44
44	High dielectric constant composites based on metallophthalocyanine oligomer and poly(vinylidene) fluoride. <i>Journal of Applied Physics</i> , 2010, 107, 094105.	1.3	43
45	Electron diffraction and HREM study of a short-range ordered structure in the relaxor ferroelectric $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ . <i>Physical Review B</i> , 2001, 65, .	1.1	43
46	Recrystallization Study of High-Energy Electron-Irradiated P(VDF-TrFE) 65/35 Copolymer. <i>Macromolecules</i> , 2004, 37, 79-85.	2.2	43
47	Design of a surface-scanning coil detector for direct bacteria detection on food surfaces using a magnetoelastic biosensor. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	41
48	Revisiting the percolation phenomena in dielectric composites with conducting fillers. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	40
49	High electrostrictive strain under high mechanical stress in electron-irradiated poly(vinylidene) fluoride. <i>Journal of Applied Physics</i> , 2011, 110, 094105.	1.5	39
50	Resonance behavior of magnetostrictive micro/milli-cantilever and its application as a biosensor. <i>Sensors and Actuators B: Chemical</i> , 2009, 137, 692-699.	4.0	38
51	Fabrication and characterization of free-standing, flexible and translucent $\text{BaTiO}_3\text{-P(VDF-CTFE)}$ nanocomposite films. <i>Journal of Alloys and Compounds</i> , 2019, 770, 327-334.	2.8	37
52	Piezoelectric diaphragm as a high performance biosensor platform. <i>Applied Physics Letters</i> , 2006, 89, 223508.	1.5	36
53	Nonuniform mass detection using magnetostrictive biosensors operating under multiple harmonic resonance modes. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	35
54	Crystallization behaviors and related dielectric properties of semicrystalline matrix in polymer-ceramic nanocomposites. <i>Composites Part B: Engineering</i> , 2021, 224, 109195.	5.9	35

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55	Characterizations of P(VDF-HFP)-BaTiO <sub>3</sub> nanocomposite films fabricated by a spin-coating process. <i>Ceramics International</i> , 2019, 45, 17758-17766.	2.3	34
56	Detection of Bacillus anthracis Spores Using Phage-Immobilized Magnetostrictive Milli/Micro Cantilevers. <i>IEEE Sensors Journal</i> , 2011, 11, 1684-1691.	2.4	33
57	High Performance Electroactive Polymers and Nano-composites for Artificial Muscles. <i>Journal of Intelligent Material Systems and Structures</i> , 2007, 18, 133-145.	1.4	32
58	In situ real-time detection of E. coli in water using antibody-coated magnetostrictive microcantilever. <i>Sensors and Actuators B: Chemical</i> , 2010, 150, 220-225.	4.0	31
59	Effects of CuO additive on the dielectric property and energy-storage performance of BaTiO <sub>3</sub> -SiO <sub>2</sub> ceramic-glass composite. <i>Ceramics International</i> , 2018, 44, 16977-16983.	2.3	31
60	Relaxor ferroelectric behavior in high-energy electron-irradiated poly(vinylidene fluoride) (P(VDF-TrFE)) copolymer. <i>Journal of Applied Physics</i> , 2005, 97, 014102.	1.1	30
61	Crystalline structure and transition behavior of recrystallized-irradiated P(VDF-TrFE) 65/35 copolymer. <i>Journal of Applied Physics</i> , 2005, 97, 014102.	1.1	30
62	Physical aspects of 0-3 dielectric composites. <i>Journal of Advanced Dielectrics</i> , 2015, 05, 1550012.	1.5	27
63	Piezoelectric-excited membrane for liquids viscosity and mass density measurement. <i>Sensors and Actuators A: Physical</i> , 2017, 261, 196-201.	2.0	27
64	Fabrication and characterization of three-dimensional periodic ferroelectric polymer-silica opal composites and inverse opals. <i>Journal of Applied Physics</i> , 2000, 88, 405-409.	1.1	26
65	Biosensor platform based on stress-improved piezoelectric membrane. <i>Sensors and Actuators A: Physical</i> , 2012, 179, 32-38.	2.0	26
66	Dielectric property and ac conductivity of P(VDF-CTFE)-PLZST polymer-ceramic composite films. <i>Ceramics International</i> , 2019, 45, 8979-8987.	2.3	25
67	Glassy dynamics in an electron-irradiated poly(vinylidene fluoride-trifluoroethylene) copolymer system. <i>Physical Review B</i> , 2003, 67, .	1.1	24
68	High-Frequency Characterization and Modeling of Coaxial Connectors With Degraded Contact Surfaces. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2018, 8, 447-455.	1.4	24
69	High Energy Storage Density of Sandwich-Structured Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> /PVDF Nanocomposites Enhanced by Optimizing the Dimensions of Fillers. <i>ACS Applied Energy Materials</i> , 2021, 4, 13528-13537.	2.5	24
70	Dielectric properties of polystyrene based composites filled with core-shell BaTiO <sub>3</sub> /polystyrene hybrid nanoparticles. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2014, 21, 1438-1445.	1.8	23
71	Effect of space charge on micro-macro domain transition of PLZT. <i>IEEE Transactions on Electrical Insulation</i> , 1992, 27, 773-776.	0.8	22
72	Fabrication of carbon nanotubes grown woven carbon fiber/epoxy composites and their electrical and mechanical properties. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	22

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73	The Effect of Electrical Connector Degradation on High-Frequency Signal Transmission. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2017, 7, 1163-1172.	1.4	22
74	High dielectric tunability in composites prepared using SiO <sub>2</sub> coated Ba <sub>0.5</sub> Sr <sub>0.5</sub> TiO <sub>3</sub> nanoparticles. Ceramics International, 2018, 44, 9875-9879.	2.3	22
75	Filler size effects on the microstructure and properties of polymer-ceramic nanocomposites using a semicrystalline matrix. Journal of Materials Science, 2021, 56, 19983-19995.	1.7	22
76	Photoelastic effects in tetragonal Pb(Zn <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> –PbTiO <sub>3</sub> single crystals near the morphotropic phase boundary. Journal of Applied Physics, 2001, 89, 5075-5078.	1.1	21
77	Blocking Agent Optimization for Nonspecific Binding on Phage Based Magnetoelastic Biosensors. Journal of the Electrochemical Society, 2012, 159, B818-B823.	1.3	21
78	Influence of silane coupling agent on microstructure and properties of CCTO-P(VDF-CTFE) composites. Journal of Advanced Dielectrics, 2018, 08, 1850008.	1.5	21
79	Model study of contribution of polar-regions to dielectric property for relaxor ferroelectrics. Ferroelectrics, 1997, 190, 167-172.	0.3	19
80	Dielectric properties and glassy behaviour in the solid-solution ceramics Pb(Zn <sub>x</sub> Nb <sub>1-x</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> -BaTiO <sub>3</sub> . The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 78, 279-293.	0.6	18
81	Pressure-temperature study of dielectric relaxation of a polyurethane elastomer. Journal of Polymer Science, Part B: Polymer Physics, 1999, 37, 983-990.	2.4	18
82	Conduction behavior of doped polyaniline films at high current density regime. Journal of Polymer Science, Part B: Polymer Physics, 1999, 37, 2845-2850.	2.4	18
83	Influence of the annealing conditions on the polarization and electromechanical response of high-energy-electron-irradiated poly(vinylidene fluoride trifluoroethylene) copolymer. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 797-806.	2.4	18
84	Magnetostrictive particle based biosensors for in situ and real-time detection of pathogens in water. Biotechnology and Bioengineering, 2014, 111, 2229-2238.	1.7	18
85	Microstructure and Dielectric Properties of CCTO-P(VDF-TrFE) Nanocomposites. Ferroelectrics, 2010, 405, 92-97.	0.3	17
86	Design, fabrication, and performance of a flextensional transducer based on electrostrictive polyvinylidene fluoride-trifluoroethylene copolymer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 1312-1320.	1.7	16
87	Enhancement of Biodegradable Poly(Ethylene Oxide) Ionic Polymer Metallic Composite Actuators with Nanocrystalline Cellulose Fillers. Actuators, 2018, 7, 72.	1.2	16
88	Temperature-domain analysis of primary and secondary dielectric relaxation phenomena in a nonlinear optical side-chain polymer. Journal of Applied Physics, 1998, 83, 7799-7807.	1.1	15
89	All-polymer electromechanical systems consisting of electrostrictive poly(vinylidene fluoride)-trifluoroethylene copolymer. Journal of Applied Physics, 2002, 92, 945-951.	1.3	15
90	Investigation of the electro-optic properties of electron-irradiated poly(vinylidene fluoride)-trifluoroethylene copolymer. Journal of Applied Physics, 2002, 92, 952-957.	0.5	15

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91	Quantitative analysis of structural, relaxational and electrostrictive properties of PVDF-TRFE/PMMA films irradiated with high-energy electrons. IEEE Transactions on Dielectrics and Electrical Insulation, 2001, 8, 718-724.	1.8	15
92	Dual-cathode method for sputtering magnetoelastic iron-boron films. Vacuum, 2009, 83, 958-964.	1.6	15
93	Novel P(VDF-HFP)/BST nanocomposite films with enhanced dielectric properties and optimized energy storage performance. Ceramics International, 2021, 47, 15561-15567.	2.3	15
94	Electric-field-induced polarization fatigue of [001]-oriented single crystals. Solid State Communications, 2011, 151, 1188-1191.	0.9	14
95	Interface Effect on Polarization Switching and Critical Thickness of Crystallization in P(VDF-TRFE) Copolymer Thin Films. Ferroelectrics, 2002, 273, 377-382.	0.3	13
96	Piezoelectric biosensor platform based on ZnO micro membrane. Current Applied Physics, 2011, 11, S285-S287.	1.1	13
97	Relaxor Ferroelectric Polymers. Ferroelectrics, 2006, 339, 37-45.	0.3	12
98	Characterization of percolation behavior in conductor-dielectric 0-3 composites. Journal of Advanced Dielectrics, 2014, 04, 1450035.	1.5	11
99	Influence of high-energy electron irradiation on the conduction behavior of doped polyaniline films in the high current density regime. Synthetic Metals, 2000, 108, 133-137.	2.1	10
100	Dielectric response and percolation behavior of Ni-P(VDF-TrFE) nanocomposites. Journal of Advanced Dielectrics, 2017, 07, 1750015.	1.5	10
101	The Impact of Connection Failure of Bonding Wire on Signal Transmission in Radio Frequency Circuits. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2020, 10, 1729-1737.	1.4	9
102	Electrocaloric devices part I: Analytical solution of one-dimensional transient heat conduction in a multilayer electrocaloric system. Journal of Advanced Dielectrics, 2020, 10, 2050028.	1.5	9
103	A new glass model for lead magnesium niobate relaxors. Ferroelectrics, 1997, 197, 131-134.	0.3	8
104	Applications of Smart Materials in the Development of High Performance Biosensors. Materials Research Society Symposia Proceedings, 2005, 888, 1.	0.1	8
105	Ferroelectric Thin Film Diaphragm Resonators for Bio-Detection. Ferroelectrics, 2010, 410, 145-151.	0.3	8
106	Time-dependence of the electromechanical bending actuation observed in ionic-electroactive polymers. Journal of Advanced Dielectrics, 2017, 07, 1720002.	1.5	8
107	Electrocaloric devices part II: All-solid heat pump without moving parts. Journal of Advanced Dielectrics, 2020, 10, 2050029.	1.5	8
108	Dielectric investigation of thermally-induced chromophore degradation in nonlinear optical polymer electrets. IEEE Transactions on Dielectrics and Electrical Insulation, 1998, 5, 21-25.	1.8	7

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109	Photoluminescence in $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ – $\text{PbIn}_{1/2}\text{Nb}_{1/2}\text{O}_3$ systems. <i>Journal of Materials Research</i> , 1998, 13, 1861-1864.	1.2	7
110	High Electromechanical Coupling Factor and Electrostrictive Strain over Broad Frequency Range in Electrostrictive Poly(vinylidene fluoride-trifluoroethylene) Copolymer Films. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 672-675.	0.8	7
111	A Case Study of Conductor-Dielectric $\text{O}_2$ Composites Using Ni-P(VDF-CTFE) Nanocomposites. <i>Journal of Advanced Physics</i> , 2015, 4, 362-369.	0.4	7
112	Modeling and Analysis of Signal Integrity of Ball Grid Array Packages With Failed Ground Solder Balls. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2022, 12, 306-315.	1.4	7
113	Piezoelectric Membrane Based Biosensor Platform. <i>Ferroelectrics</i> , 2010, 409, 78-84.	0.3	6
114	Location Dependence of Mass Sensitivity for Acoustic Wave Devices. <i>Sensors</i> , 2015, 15, 24585-24594.	2.1	6
115	Capacitance build-up in electrical connectors due to vibration induce fretting corrosion. , 2016, , .		6
116	Microstructure and enhanced dielectric properties of $\text{BaTiO}_3$ – $\text{SiO}_2$ nanocomposites using hydrogen treated nanoparticles. <i>IET Nanodielectrics</i> , 2019, 2, 41-47.	2.0	6
117	Low-frequency dielectric dispersion in polymer-derived amorphous silicon carbonitride ceramics. <i>Journal of the American Ceramic Society</i> , 2019, 102, 3547-3554.	1.9	6
118	Novel electroactive polymer system: PVDF-based polymer blends. , 2004, 5385, 99.		5
119	Electropolymers for Mechatronics and Artificial Muscles. , 2008, , 131-159.		5
120	Dielectric Behavior of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ –Polyethylene Composites with a Low Dielectric Loss. <i>Iranian Journal of Science and Technology, Transaction A: Science</i> , 2017, 41, 7-16.	0.7	5
121	Enhanced thermal and pyroelectric properties in $\text{O}_2$ TGS:PVDF composites doped with graphene for infrared application. <i>Journal of Advanced Dielectrics</i> , 2017, 07, 1750006.	1.5	5
122	Effects of $\text{SiO}_2$ coating on the dielectric and ferroelectric properties of $\text{BaTiO}_3$ - $\text{SiO}_2$ composites. , 2017, , .		5
123	Influence of Crystallization Condition on Structure of P(VDF-CTFE) Copolymers. <i>Materials Research Society Symposia Proceedings</i> , 2005, 889, 1.	0.1	4
124	Detection of Bacillus Anthracis Spores Using Magnetostrictive Microcantilever-based Biosensor. <i>Materials Research Society Symposia Proceedings</i> , 2006, 951, 4.	0.1	4
125	Detection of Bacillus anthracis spores in water using biosensors based on magnetostrictive microcantilever coated with phage. , 2007, , .		4
126	Dielectric properties of ceramics. <i>Journal Physics D: Applied Physics</i> , 1997, 30, 1165-1165.	1.3	3



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127	Mechanical load effects on the electrostrictive strain of P(VDF-TrFE) copolymer and the development of a high-resolution hydrostatic-pressure dilatometer. , 0, , .		3
128	Poly(vinylidene fluoroethylene-trifluoroethylene) based high performance electroactive polymers. , 0, , .		3
129	Development of highly sensitive handheld device for real-time detection of bacteria in food. , 2010, , .		3
130	High-Frequency Behavior Analysis and Modeling of Silver Plated Printed Circuit Board with Electrochemical Migration. Journal of Electronic Materials, 2019, 48, 8039-8046.	1.0	3
131	3D Phage-based biomolecular filter for effective high throughput capture of Salmonella Typhimurium in liquid streams. Food Research International, 2021, 142, 110181.	2.9	3
132	Investigation of impedance compensation in radio frequency circuits with bonding wire. International Journal of RF and Microwave Computer-Aided Engineering, 2022, 32, .	0.8	3
133	High Dielectric Constant Polymer Ceramic Composites. Materials Research Society Symposia Proceedings, 1999, 600, 281.	0.1	2
134	Electromechanical coupling factor of electrostrictive P(VDF-TrFE) copolymer. , 0, , .		2
135	Evolution of Property and Microstructure of P(VDF-TrFE) Copolymers Modified by Irradiation Introduced Defects. Materials Research Society Symposia Proceedings, 2002, 734, 251.	0.1	2
136	Characterization of Microstructure and Composition of Fe-B Nanobars as Biosensor Platform. Materials Research Society Symposia Proceedings, 2006, 962, 1.	0.1	2
137	Micro-fabricated wireless biosensors for the detection of S. typhimurium in liquids. Proceedings of SPIE, 2010, , .	0.8	2
138	Influence of Process Condition on the Dielectric Properties of CCTO-P(VDF-TrFE) 0-3 Composites. Materials Research Society Symposia Proceedings, 2011, 1312, 1.	0.1	2
139	Modeling and analysis of radio frequency connector degradation using time domain reflectometry technique. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22271.	0.8	2
140	Chapter 10. Ferroelectric Relaxor Polymers as Intelligent Soft Actuators and Artificial Muscles. , 2007, , 256-281.		2
141	Intelligent Detection Methods of Electrical Connection Faults in RF Circuits. Applied Sciences (Switzerland), 2021, 11, 9973.	1.3	2
142	Analytical Solution of Heat Exchange in Typical Electrocaloric Devices. Journal of Heat Transfer, 2022, 144, .	1.2	2
143	Investigation of Dipolar Relaxation Processes in a Side-Chain Nonlinear Optical Polymer. Materials Research Society Symposia Proceedings, 1996, 446, 97.	0.1	1
144	Dielectric properties of irradiated PMN-PT/P(VDF-TrFE) 0-3 composites. , 0, , .		1

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145	New High-Dielectric-Constant Polymer-Ceramic Composites. Materials Research Society Symposia Proceedings, 2004, 847, 263.	0.1	1
146	Thermal and Electric Properties of P(VDF-TrFE) and P(VDF-CTFE) Copolymer Blends. Materials Research Society Symposia Proceedings, 2004, 856, BB12.9.1.	0.1	1
147	Structure and property of recrystallized high-energy-electron-irradiated P(VDF-TrFE). , 2004, , .		1
148	The netted ferrite at grain boundaries in the steels with thermomechanical processing. Materials Letters, 2005, 59, 2570-2573.	1.3	1
149	Piezopolymer Diaphragm as high performance biosensor platform. Materials Research Society Symposia Proceedings, 2005, 889, 1.	0.1	1
150	Dielectric Response of Ceramic-Polymer Composite with High Permittivity. Materials Research Society Symposia Proceedings, 2008, 1134, 1.	0.1	1
151	Crystallinity Properties of Carbon Nanotube-Polyvinylidene Fluoride Composites. Materials Research Society Symposia Proceedings, 2008, 1134, 1.	0.1	1
152	Direct detection of Salmonella on fresh vegetables using multiple magnetoelastic biosensors. , 2010, , .		1
153	Rapid detection of small quantities of specific bacteria using phage-based wireless biosensors. , 2016, , .		1
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