

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	Analytical Solution of Heat Exchange in Typical Electrocaloric Devices. Journal of Heat Transfer, 2022, 144, .	1.2	2
2	Modeling and Analysis of Signal Integrity of Ball Grid Array Packages With Failed Ground Solder Balls. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2022, 12, 306-315.	1.4	7
3	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
4	Flexible all-organic composites with ultrahigh energy storage density for wearable electronics. , 2022, , .		0
5	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
6	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
7	Crystallization behaviors and related dielectric properties of semicrystalline matrix in polymer-ceramic nanocomposites. Composites Part B: Engineering, 2021, 224, 109195.	5.9	35
8	Intelligent Detection Methods of Electrical Connection Faults in RF Circuits. Applied Sciences (Switzerland), 2021, 11, 9973.	1.3	2
9	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
10	High Energy Storage Density of Sandwich-Structured Na _{0.5} Bi _{0.5} TiO ₃ /PVDF Nanocomposites Enhanced by Optimizing the Dimensions of Fillers. ACS Applied Energy Materials, 2021, 4, 13528-13537.	2.5	24
11	Sensor for In-situ Detection of Bacteria in Urinary Tract Infection. , 2021, , .		0
12	Electrocaloric devices part II: All-solid heat pump without moving parts. Journal of Advanced Dielectrics, 2020, 10, 2050029.	1.5	8
13	Technical committees: Activities of the DEIS technical committee on "functional dielectrics". IEEE Electrical Insulation Magazine, 2020, 36, 62-63.	1.1	1
14	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
15	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
16	High energy density with ultrahigh discharging efficiency obtained in ceramic-polymer nanocomposites using a non-ferroelectric polar polymer as matrix. Nano Energy, 2020, 70, 104551.	8.2	70
17	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
18	Development of Polymer-based 0â€³ Composites with High Dielectric Constant. , 2020, , 369-409.		1

#	ARTICLE	IF	CITATIONS
19	Fabrication and characterization of free-standing, flexible and translucent BaTiO ₃ -P(VDF-CTFE) nanocomposite films. <i>Journal of Alloys and Compounds</i> , 2019, 770, 327-334.	2.8	37
20	High-Frequency Behavior Analysis and Modeling of Silver Plated Printed Circuit Board with Electrochemical Migration. <i>Journal of Electronic Materials</i> , 2019, 48, 8039-8046.	1.0	3
21	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
22	Characterizations of P(VDF-HFP)-BaTiO ₃ nanocomposite films fabricated by a spin-coating process. <i>Ceramics International</i> , 2019, 45, 17758-17766.	2.3	34
23	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
24	Microstructure and enhanced dielectric properties of BaTiO ₃ @ SiO ₂ nanocomposites using hydrogen treated nanoparticles. <i>IET Nanodielectrics</i> , 2019, 2, 41-47.	2.0	6
25	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
26	Dielectric and energy-storage performance of Ba _{0.5} Sr _{0.5} TiO ₃ -SiO ₂ ceramic-glass composites. <i>Journal of Alloys and Compounds</i> , 2018, 745, 127-134.	2.8	44
27	Influence of silane coupling agent on microstructure and properties of CCTO-P(VDF-CTFE) composites. <i>Journal of Advanced Dielectrics</i> , 2018, 08, 1850008.	1.5	21
28	High dielectric tunability in composites prepared using SiO ₂ coated Ba _{0.5} Sr _{0.5} TiO ₃ nanoparticles. <i>Ceramics International</i> , 2018, 44, 9875-9879.	2.3	22
29	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
30	Direct Detection of Bacterial Pathogens on Fresh Fruits and Vegetables. , 2018, , .		1
31	Enhancement of Biodegradable Poly(Ethylene Oxide) Ionic Polymer Metallic Composite Actuators with Nanocrystalline Cellulose Fillers. <i>Actuators</i> , 2018, 7, 72.	1.2	16
32	Effects of CuO additive on the dielectric property and energy-storage performance of BaTiO ₃ -SiO ₂ ceramic-glass composite. <i>Ceramics International</i> , 2018, 44, 16977-16983.	2.3	31
33	All-organic dielectric nanocomposites using conducting polypyrrole nanoclips as filler. <i>Composites Science and Technology</i> , 2018, 167, 285-293.	3.8	51
34	Dielectric Behavior of CaCu ₃ Ti ₄ 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
35	Time-dependence of the electromechanical bending actuation observed in ionic-electroactive polymers. <i>Journal of Advanced Dielectrics</i> , 2017, 07, 1720002.	1.5	8
36	Enhanced thermal and pyroelectric properties in 3 TGS:PVDF composites doped with graphene for infrared application. <i>Journal of Advanced Dielectrics</i> , 2017, 07, 1750006.	1.5	5

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37	Boundary-condition analysis for physics-based modeling of ionic-polymer metal composite electroactive polymers. Proceedings of SPIE, 2017, , .	0.8	0
38	Piezoelectric-excited membrane for liquids viscosity and mass density measurement. Sensors and Actuators A: Physical, 2017, 261, 196-201.	2.0	27
39	Effect of SiO ₂ Coating Layer on CCTO Particles on Properties of CCTO/PVDF Composites. ECS Transactions, 2017, 80, 271-278.	0.3	1
40	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
41	Dielectric response and percolation behavior of Niâ€P(VDFâ€TrFE) nanocomposites. Journal of Advanced Dielectrics, 2017, 07, 1750015.	1.5	10
42	PVDF/PPy nanofibrous membranes for peripheral nerve lesion treatments. , 2017, , .		1
43	Detection of Bacillus Anthracis Spores in Water Using a Phage-Coated Piezoelectric Membrane. ECS Transactions, 2017, 80, 1541-1547.	0.3	0
44	Effects of Surface-Scanning Detector Position on the Response of a Wireless Magnetoelastic Biosensor. ECS Transactions, 2017, 80, 1579-1583.	0.3	0
45	Process and microstructure to achieve high dielectric constant in ceramic-glass composites for energy storage applications. , 2017, , .		1
46	Effects of SiO ₂ coating on the dielectric and ferroelectric properties of BaTiO ₃ -SiO ₂ composites. , 2017, , .		5
47	Rapid detection of small quantities of specific bacteria using phage-based wireless biosensors. , 2016, , .		1
48	Capacitance build-up in electrical connectors due to vibration induce fretting corrosion. , 2016, , .		6
49	An interrogating circuit and device for magnetostrictive biosensors. , 2016, , .		0
50	Process and Microstructure to Achieve Ultra-high Dielectric Constant in Ceramic-Polymer Composites. Scientific Reports, 2016, 6, 35763.	1.6	81
51	Nano-clip based composites with a low percolation threshold and high dielectric constant. Nano Energy, 2016, 26, 550-557.	8.2	98
52	Physical aspects of 0-3 dielectric composites. Journal of Advanced Dielectrics, 2015, 05, 1550012.	1.5	27
53	Location Dependence of Mass Sensitivity for Acoustic Wave Devices. Sensors, 2015, 15, 24585-24594.	2.1	6
54	Development of Novel Magnetostrictive Fe-Co-B Thin Films as a High Frequency Sensor Platform. Materials Research Society Symposia Proceedings, 2015, 1720, 46.	0.1	0

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55	Modeling of the time-dependent strain response of electroactive NCC-PEO and PVDF composites. , 2015, , .		0
56	A Case Study of Conductor-Dielectric 0-3 Composites Using Ni-P(VDF-CTFE) Nanocomposites. Journal of Advanced Physics, 2015, 4, 362-369.	0.4	7
57	Characterization of percolation behavior in conductor-dielectric 0-3 composites. Journal of Advanced Dielectrics, 2014, 04, 1450035.	1.5	11
58	Revisiting the percolation phenomena in dielectric composites with conducting fillers. Applied Physics Letters, 2014, 105, .	1.5	40
59	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
60	Electromechanical response of NCC-PEO composites. , 2014, , .		0
61	Preparation process and dielectric properties of Ba _{0.5} Sr _{0.5} TiO ₃ -P(VDF-CTFE) nanocomposites. Composites Part B: Engineering, 2014, 56, 284-289.	5.9	97
62	Dielectric properties of polystyrene based composites filled with core-shell BaTiO ₃ /polystyrene hybrid nanoparticles. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 1438-1445.	1.8	23
63	Design of a surface-scanning coil detector for direct bacteria detection on food surfaces using a magnetoelastic biosensor. Journal of Applied Physics, 2013, 114, .	1.1	41
64	Magnetostrictive resonators as sensors and actuators. Sensors and Actuators A: Physical, 2013, 200, 2-10.	2.0	71
65	Metal-polymer nanocomposites with high percolation threshold and high dielectric constant. Applied Physics Letters, 2013, 103, 232903.	1.5	67
66	Quantitative experimental determination of site-specific magnetic structures by transmitted electrons. Nature Communications, 2013, 4, 1395.	5.8	66
67	Fabrication of carbon nanotubes grown woven carbon fiber/epoxy composites and their electrical and mechanical properties. Journal of Applied Physics, 2013, 113, .	1.1	22
68	Blocking Agent Optimization for Nonspecific Binding on Phage Based Magnetoelastic Biosensors. Journal of the Electrochemical Society, 2012, 159, B818-B823.	1.3	21
69	Biosensor platform based on stress-improved piezoelectric membrane. , 2012, , .		0
70	Biosensor for direct detection of pathogens on fresh produce. , 2012, , .		0
71	Dielectric composites with a high and temperature-independent dielectric constant. Journal of Advanced Ceramics, 2012, 1, 310-316.	8.9	49
72	Dielectric characteristics of CaCu ₃ Ti ₄ O ₁₂ /P(VDF-TrFE) nanocomposites. Applied Physics A: Materials Science and Processing, 2012, 107, 597-602.	1.1	94

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73	Biosensor platform based on stress-improved piezoelectric membrane. <i>Sensors and Actuators A: Physical</i> , 2012, 179, 32-38.	2.0	26
74	DEVELOPMENT OF POLYMER-BASED 0â€“3 COMPOSITES WITH HIGH DIELECTRIC CONSTANT. <i>Journal of Advanced Dielectrics</i> , 2011, 01, 389-406.	1.5	140
75	Detection of <i>Bacillus anthracis</i> Spores Using Phage-Immobilized Magnetostrictive Milli/Micro Cantilevers. <i>IEEE Sensors Journal</i> , 2011, 11, 1684-1691.	2.4	33
76	Piezoelectric biosensor platform based on ZnO micro membrane. <i>Current Applied Physics</i> , 2011, 11, S285-S287.	1.1	13
77	Electric-field-induced polarization fatigue of [001]-oriented single crystals. <i>Solid State Communications</i> , 2011, 151, 1188-1191.	0.9	14
78	Resonance behavior of metallic glass resonators and their application as sensor platform. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1300, 1.	0.1	0
79	Influence of Process Condition on the Dielectric Properties of CCTO-P(VDF-TrFE) 0-3 Composites. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1312, 1.	0.1	2
80	Micro-fabricated wireless biosensors for the detection of <i>S. typhimurium</i> in liquids. <i>Proceedings of SPIE</i> , 2010, , .	0.8	2
81	Development of highly sensitive handheld device for real-time detection of bacteria in food. , 2010, , .		3
82	In situ real-time detection of <i>E. coli</i> in water using antibody-coated magnetostrictive microcantilever. <i>Sensors and Actuators B: Chemical</i> , 2010, 150, 220-225.	4.0	31
83	Nonuniform mass detection using magnetostrictive biosensors operating under multiple harmonic resonance modes. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	35
84	Piezoelectric Membrane Based Biosensor Platform. <i>Ferroelectrics</i> , 2010, 409, 78-84.	0.3	6
85	Ferroelectric Thin Film Diaphragm Resonators for Bio-Detection. <i>Ferroelectrics</i> , 2010, 410, 145-151.	0.3	8
86	Direct detection of <i>Salmonella</i> on fresh vegetables using multiple magnetoelastic biosensors. , 2010, , .		1
87	Microstructure and Dielectric Properties of CCTO-P(VDF-TrFE) Nanocomposites. <i>Ferroelectrics</i> , 2010, 405, 92-97.	0.3	17
88	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
89	Dual-cathode method for sputtering magnetoelastic iron-boron films. <i>Vacuum</i> , 2009, 83, 958-964.	1.6	15
90	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

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91	A wireless biosensor using microfabricated phage-interfaced magnetoelastic particles. <i>Sensors and Actuators A: Physical</i> , 2008, 144, 38-47.	2.0	70
92	Electropolymers for Mechatronics and Artificial Muscles. , 2008, , 131-159.		5
93	Dielectric Response of Ceramic-Polymer Composite with High Permittivity. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1134, 1.	0.1	1
94	Field-Activated Electroactive Polymers. <i>MRS Bulletin</i> , 2008, 33, 183-187.	1.7	79
95	Crystallinity Properties of Carbon Nanotube-Polyvinylidene Fluoride Composites. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1134, 1.	0.1	1
96	Paper ID: HP006. , 2008, , .		0
97	NA006. , 2008, , .		0
98	Phase transition and phase stability in [110]-, [001]-, and [111]-oriented $0.68\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3 \cdot 0.32\text{PbTiO}_3$ single crystal under electric field. <i>Journal of Applied Physics</i> , 2008, 104, 024112.	1.1	48
99	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
100	Microstructure and Morphology of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3\text{-P(VDF-CTFE)}$ Nanocomposites. , 2008, , .		0
101	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
102	Detection of <i>Bacillus anthracis</i> spores in water using biosensors based on magnetostrictive microcantilever coated with phage. , 2007, , .		4
103	Magnetostrictive Microcantilever as an Advanced Transducer for Biosensors. <i>Sensors</i> , 2007, 7, 2929-2941.	2.1	50
104	Ceramic-Polymer Composites with High Dielectric Constant. <i>Advanced Materials</i> , 2007, 19, 1369-1372.	11.1	552
105	Chapter 10. Ferroelectric Relaxor Polymers as Intelligent Soft Actuators and Artificial Muscles. , 2007, , 256-281.		2
106	Relaxor Ferroelectric Polymers. <i>Ferroelectrics</i> , 2006, 339, 37-45.	0.3	12
107	Piezoelectric diaphragm as a high performance biosensor platform. <i>Applied Physics Letters</i> , 2006, 89, 223508.	1.5	36
108	Electromechanical properties of poly(vinylidene-fluoride-chlorotrifluoroethylene) copolymer. <i>Applied Physics Letters</i> , 2006, 88, 062904.	1.5	91

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109	Identification of blood cell types using magnetostrictive microcantilevers based biosensors. , 2006, , .		0
110	Fabrication of magnetostrictive nanobars. , 2006, , .		0
111	Detection of Bacillus Anthracis Spores Using Magnetostrictive Microcantilever-based Biosensor. Materials Research Society Symposia Proceedings, 2006, 951, 4.	0.1	4
112	Characterization of Microstructure and Composition of Fe-B Nanobars as Biosensor Platform. Materials Research Society Symposia Proceedings, 2006, 962, 1.	0.1	2
113	Dielectric Properties of CaCu ₃ Ti ₄ O ₁₂ -P(VDF-TrFE) Composite. Materials Research Society Symposia Proceedings, 2006, 949, 1.	0.1	0
114	Biosensor based on magnetostrictive microcantilever. Applied Physics Letters, 2006, 88, 073507.	1.5	50
115	Influence of CNT on the Crystallization Behavior of P(VDF-CTFE) Copolymers. Materials Research Society Symposia Proceedings, 2006, 949, 1.	0.1	0
116	High-performance sensor platform based on electroactive polymers. , 2005, , .		0
117	Biosensor-based magnetostrictive microcantilever. , 2005, 5763, 310.		0
118	Biosensor-based magnetostrictive microcantilever. , 2005, 5798, 207.		0
119	The netted ferrite at grain boundaries in the steels with thermomechanical processing. Materials Letters, 2005, 59, 2570-2573.	1.3	1
120	Piezopolymer Diaphragm as high performance biosensor platform. Materials Research Society Symposia Proceedings, 2005, 889, 1.	0.1	1
121	Effect of High-Energy-Electron Irradiation on Nonisothermal Crystallization Kinetics in P(VDF-TrFE) 65/35 mol% Copolymers. Materials Research Society Symposia Proceedings, 2005, 889, 1.	0.1	0
122	Crystalline structure and transition behavior of recrystallized-irradiated P(VDF-TrFE) 65 [^] 35 copolymer. Journal of Applied Physics, 2005, 97, 014102.	1.1	30
123	Applications of Smart Materials in the Developement of High Performance Biosensors. Materials Research Society Symposia Proceedings, 2005, 888, 1.	0.1	8
124	Electrosynthesis of Magnetostrictive Nanosensor Array. Materials Research Society Symposia Proceedings, 2005, 900, 1.	0.1	0
125	Influence of Crystallization Condition on Structure of P(VDF-CTFE) Copolymers. Materials Research Society Symposia Proceedings, 2005, 889, 1.	0.1	4
126	New High-Dielectric-Constant Polymer-Ceramic Composites. Materials Research Society Symposia Proceedings, 2004, 847, 263.	0.1	1

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127	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
128	Interfacial Layer - A New Mechanism for Electromechanical Response. Materials Research Society Symposia Proceedings, 2004, 856, BB12.10.1.	0.1	0
129	Electroactive Polymer Based Micro-ElectroMechanical System as Biosensor Platform. Materials Research Society Symposia Proceedings, 2004, 855, 93.	0.1	0
130	Magnetostrictive Microcantilever as Micro-Biosensor Platform. Materials Research Society Symposia Proceedings, 2004, 855, 1.	0.1	0
131	Recrystallization Study of High-Energy Electron-Irradiated P(VDF-TrFE) 65/35 Copolymer. Macromolecules, 2004, 37, 79-85.	2.2	43
132	Novel electroactive polymer system: PVDF-based polymer blends. , 2004, 5385, 99.		5
133	Poly(vinylidene fluoride-trifluoroethylene) based high performance electroactive polymers. IEEE Transactions on Dielectrics and Electrical Insulation, 2004, 11, 299-311.	1.8	106
134	Structure and property of recrystallized high-energy-electron-irradiated P(VDF-TrFE). , 2004, , .		1
135	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
136	Glassy dynamics in an electron-irradiated poly(vinylidene fluoride-trifluoroethylene) copolymer system. Physical Review B, 2003, 67, .	1.1	24
137	Phase stabilities of ϵ -morphic phases in $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - PbTiO_3 single crystals. Applied Physics Letters, 2002, 80, 1918-1920.	1.5	64
138	High-performance micromachined unimorph actuators based on electrostrictive poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	1.5	69
139	Dependence of threshold thickness of crystallization and film morphology on film processing conditions in poly(vinylidene fluoride-trifluoroethylene) copolymer thin films. Journal of Applied Physics, 2002, 92, 3111-3115.	1.1	75
140	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
141	Investigation of Polymer Micro-Actuators Based on Electrostrictive Poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 187 To 541.	0.1	0
142	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
143	Structural Changes and Transitional Behavior Studied from Both Micro- and Macroscale in the High-Energy Electron-Irradiated Poly(vinylidene fluoride-trifluoroethylene) Copolymer. Macromolecules, 2002, 35, 664-672.	2.2	82
144	Dielectric relaxation behavior and its relation to microstructure in relaxor ferroelectric polymers: High-energy electron irradiated poly(vinylidene fluoride-trifluoroethylene) copolymers. Journal of Applied Physics, 2002, 92, 6749-6755.	1.1	102

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145	Design, fabrication, and performance of a flextensional transducer based on electrostrictive poly(vinylidene fluoride-trifluoroethylene) copolymer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 1312-1320.	1.7	16
146	High Electromechanical Responses in a Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td (fluoride-trifluoroethylene-chlorofluoride) terpolymer. Applied Physics Letters, 2001, 78, 287-290.	11.1	287
147	An all-organic composite actuator material with a high dielectric constant. Nature, 2002, 419, 284-287.	13.7	985
148	Phase transitional behavior and piezoelectric properties of the orthorhombic phase of Pb(Mg _{1/3} Nb _{2/3})O ₃ â€“PbTiO ₃ single crystals. Applied Physics Letters, 2001, 78, 3109-3111.	1.5	239
149	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
150	Critical thickness of crystallization and discontinuous change in ferroelectric behavior with thickness in ferroelectric polymer thin films. Journal of Applied Physics, 2001, 89, 2613-2616.	1.1	136
151	Electrostrictive poly(vinylidene fluoride-trifluoroethylene) copolymers. Sensors and Actuators A: Physical, 2001, 90, 138-147.	2.0	148
152	High dielectric constant composites based on metallophthalocyanine oligomer and poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 342 Td (fluoride-trifluoroethylene-chlorofluoride) terpolymer. Applied Physics Letters, 2001, 78, 43-46.	1.3	43
153	High Electromechanical Coupling Factor and Electrostrictive Strain over Broad Frequency Range in Electrostrictive Poly(vinylidene fluoride-trifluoroethylene) Copolymer Films. Japanese Journal of Applied Physics, 2001, 40, 672-675.	0.8	7
154	Photoelastic effects in tetragonal Pb(Zn _{1/3} Nb _{2/3})O ₃ â€“PbTiO ₃ single crystals near the morphotropic phase boundary. Journal of Applied Physics, 2001, 89, 5075-5078.	1.1	21
155	Thickness dependence of ferroelectric polarization switching in poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 342 Td (fluoride-trifluoroethylene-chlorofluoride) terpolymer. Applied Physics Letters, 2001, 78, 81-84.	1.5	81
156	Electron diffraction and HREM study of a short-range ordered structure in the relaxor ferroelectric Pb(Mg _{1/3} Nb _{2/3})O ₃ . Physical Review B, 2001, 65, .	1.1	43
157	Ferroelectric and electromechanical properties of poly(vinylidene-fluorideâ€“trifluoroethyleneâ€“chlorotrifluoroethylene) terpolymer. Applied Physics Letters, 2001, 78, 2360-2362.	1.5	280
158	All-polymer electromechanical systems consisting of electrostrictive poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (fluoride-trifluoroethylene-chlorofluoride) terpolymer. Applied Physics Letters, 2001, 78, 945-951.	1.3	15
159	Relaxor ferroelectric behavior in high-energy electron-irradiated poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 187 Td (fluoride-trifluoroethylene-chlorofluoride) terpolymer. Applied Physics Letters, 2001, 78, 307-312.	1.1	30
160	Fabrication and characterization of three-dimensional periodic ferroelectric polymer-silica opal composites and inverse opals. Journal of Applied Physics, 2000, 88, 405-409.	1.1	26
161	Investigation of the electro-optic properties of electron-irradiated poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 102 Td (fluoride-trifluoroethylene-chlorofluoride) terpolymer. Applied Physics Letters, 2001, 78, 15-18.	0.5	15
162	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

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163	Composition, temperature, and crystal orientation dependence of the linear electro-optic properties of $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - PbTiO_3 single crystals. Applied Physics Letters, 2000, 77, 1247-1249.	1.5	52
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