Zhaoqiang Chu

List of Publications by Year
in descending order

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171	11,898	46984 47	27389 106
papers	citations	h-index	g-index

173	173	173	6017
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multiferroic magnetoelectric composites: Historical perspective, status, and future directions. Journal of Applied Physics, 2008, 103, .	1.1	3,224
2	Magnetoelectric Laminate Composites: An Overview. Journal of the American Ceramic Society, 2008, 91, 351-358.	1.9	397
3	Near-ideal magnetoelectricity in high-permeability magnetostrictive/piezofiber laminates with a (2-1) connectivity. Applied Physics Letters, 2006, 89, 252904.	1.5	342
4	Detection of pico-Tesla magnetic fields using magneto-electric sensors at room temperature. Applied Physics Letters, 2006, 88, 062510.	1.5	332
5	Enhanced magnetoelectric effects in laminate composites of Terfenol-D/Pb(Zr,Ti)O3 under resonant drive. Applied Physics Letters, 2003, 83, 4812-4814.	1.5	319
6	Longitudinal and transverse magnetoelectric voltage coefficients of magnetostrictive/piezoelectric laminate composite: theory. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 1253-1261.	1.7	287
7	Ultrahigh magnetic field sensitivity in laminates of TERFENOL-D and Pb(Mg1/3Nb2/3)O3â€“PbTiO3 crystals. Applied Physics Letters, 2003, 83, 2265-2267.	1.5	279
8	Giant magnetoelectric effect in Metglas/polyvinylidene-fluoride laminates. Applied Physics Letters, 2006, 89, 083507.	1.5	233
9	Piezoelectric Actuators and Motors: Materials, Designs, and Applications. Advanced Materials Technologies, 2020, 5, 1900716.	3.0	224
10	Recent advancements in magnetoelectric particulate and laminate composites. Journal of Electroceramics, 2007, 19, 149-166.	0.8	206
11	Push-pull mode magnetostrictive/piezoelectric laminate composite with an enhanced magnetoelectric voltage coefficient. Applied Physics Letters, 2005, 87, 062502.	1.5	195
12	Review of multi-layered magnetoelectric composite materials and devices applications. Journal Physics D: Applied Physics, 2018, 51, 243001.	1.3	193
13	A strong magnetoelectric voltage gain effect in magnetostrictive-piezoelectric composite. Applied Physics Letters, 2004, 85, 3534-3536.	1.5	165
14	Multimodal system for harvesting magnetic and mechanical energy. Applied Physics Letters, 2008, 93, .	1.5	161
15	Characterization of magnetoelectric laminate composites operated in longitudinal-transverse and transverseâ€“transverse modes. Journal of Applied Physics, 2004, 95, 2625-2630.	1.1	152
16	Giant Piezoelectric Coefficients in Relaxor Piezoelectric Ceramic PNNâ€PZT for Vibration Energy Harvesting. Advanced Functional Materials, 2018, 28, 1706895.	7.8	152
17	Small dc magnetic field response of magnetoelectric laminate composites. Applied Physics Letters, 2006, 88, 082907.	1.5	147
18	Enhanced multiferroic properties of the high-valence Pr doped BiFeO3 thin film. Applied Physics Letters, 2008, 93, .	1.5	146

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19	Ferroelectric memristor based on Pt/BiFeO3/Nb-doped SrTiO3 heterostructure. Applied Physics Letters, 2013, 102, .	1.5	143
20	Enhanced Resonance Magnetoelectric Coupling in (1â€1) Connectivity Composites. Advanced Materials, 2017, 29, 1606022.	11.1	137
21	Piezoelectric ultrasonic micromotor with 1.5 mm diameter. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 361-367.	1.7	122
22	Highâ€Temperature BiScO₃â€PbTiO₃ Piezoelectric Vibration Energy Harvester. Advanced Functional Materials, 2016, 26, 7186-7194.	7.8	116
23	A Portable Very Low Frequency (VLF) Communication System Based on Acoustically Actuated Magnetoelectric Antennas. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 398-402.	2.4	116
24	Energy harvesting from ambient low-frequency magnetic field using magneto-mechano-electric composite cantilever. Applied Physics Letters, 2014, 104, .	1.5	109
25	A longitudinal-longitudinal mode TERFENOL-Dâˆ•Pb(Mg1âˆ•3Nb2âˆ•3)O3â€“PbTiO3 laminate composite. Applied Physics Letters, 2004, 85, 5305-5306.	1.5	102
26	Extremely low frequency response of magnetoelectric multilayer composites. Applied Physics Letters, 2005, 86, 102901.	1.5	101
27	Equivalent circuit method for static and dynamic analysis of magnetoelectric laminated composites. Science Bulletin, 2008, 53, 2113-2123.	4.3	91
28	Circumferential-mode, quasi-ring-type, magnetoelectric laminate compositeâ€”a highly sensitive electric current andâˆ•or vortex magnetic field sensor. Applied Physics Letters, 2005, 86, 182506.	1.5	88
29	A 3D-printed, alternatively tilt-polarized PVDF-TrFE polymer with enhanced piezoelectric effect for self-powered sensor application. Nano Energy, 2021, 85, 105985.	8.2	86
30	Magnetoelectric gyration effect in Tb1âˆ’xDyxFe2âˆ’yâˆ•Pb(Zr,Ti)O3 laminated composites at the electromechanical resonance. Applied Physics Letters, 2006, 89, 243512.	1.5	84
31	Magnetoelectric coupling, efficiency, and voltage gain effect in piezoelectric-piezomagnetic laminate composites. Journal of Materials Science, 2006, 41, 97-106.	1.7	84
32	Giant magnetoelectric effect (under a dc magnetic bias of 2Oe) in laminate composites of FeBSiC alloy ribbons and Pb(Zn1âˆ•3,Nb2âˆ•3)O3â€“7%PbTiO3 fibers. Applied Physics Letters, 2007, 91, 022915.	1.5	84
33	Longitudinal and transverse magnetoelectric voltage coefficients of magnetostrictive/ piezoelectric laminate composite: experiments. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 794-799.	1.7	83
34	Geomagnetic sensor based on giant magnetoelectric effect. Applied Physics Letters, 2007, 91, .	1.5	83
35	REVIEW ON PIEZOELECTRIC, ULTRASONIC, AND MAGNETOELECTRIC ACTUATORS. Journal of Advanced Dielectrics, 2012, 02, 1230001.	1.5	83
36	Voltage gain effect in a ring-type magnetoelectric laminate. Applied Physics Letters, 2004, 84, 4188-4190.	1.5	82

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37	The large piezoelectricity and high power density of a 3D-printed multilayer copolymer in a rugby ball-structured mechanical energy harvester. Energy and Environmental Science, 2020, 13, 152-161.	15.6	82
38	Temperature dependence of dielectric, piezoelectric and elastic properties of BiScO3â€“PbTiO3 high temperature ceramics with morphotropic phase boundary (MPB) composition. Journal of Alloys and Compounds, 2012, 537, 280-285.	2.8	72
39	Circumferentially magnetized and circumferentially polarized magnetostrictive/piezoelectric laminated rings. Journal of Applied Physics, 2004, 96, 3382-3387.	1.1	70
40	A quasi(unidirectional) Tellegen gyrator. Journal of Applied Physics, 2006, 100, 124509.	1.1	67
41	Highâ€Performance [001]câ€Textured PNNâ€PZT Relaxor Ferroelectric Ceramics for Electromechanical Coupling Devices. Advanced Functional Materials, 2020, 30, 2001846.	7.8	66
42	A flex-compressive-mode piezoelectric transducer for mechanical vibration/strain energy harvesting. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 698-703.	1.7	63
43	Colossal low-frequency resonant magnetomechanical and magnetoelectric effects in a three-phase ferromagnetic/elastic/piezoelectric composite. Applied Physics Letters, 2012, 101, .	1.5	58
44	3D-printed flexible, Ag-coated PNN-PZT ceramic-polymer grid-composite for electromechanical energy conversion. Nano Energy, 2020, 73, 104737.	8.2	57
45	Review on high temperature piezoelectric ceramics and actuators based on BiScO₃â€“PbTiO₃ solid solutions. Journal of Advanced Dielectrics, 2014, 04, 1430002.	1.5	53
46	Mechanical-Resonance-Enhanced Thin-Film Magnetoelectric Heterostructures for Magnetometers, Mechanical Antennas, Tunable RF Inductors, and Filters. Materials, 2019, 12, 2259.	1.3	53
47	A poling-free PVDF nanocomposite via mechanically directional stress field for self-powered pressure sensor application. Nano Energy, 2022, 98, 107340.	8.2	53
48	Giant Piezoelectricity of Ternary Perovskite Ceramics at High Temperatures. Advanced Functional Materials, 2019, 29, 1807920.	7.8	50
49	A standing wave linear ultrasonic motor operating in in-plane expanding and bending modes. Review of Scientific Instruments, 2015, 86, 035002.	0.6	48
50	Designing electromechanical metamaterial with full nonzero piezoelectric coefficients. Science Advances, 2019, 5, eaax1782.	4.7	48
51	A small linear ultrasonic motor utilizing longitudinal and bending modes of a piezoelectric tube. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 705-709.	1.7	47
52	A barbell-shaped high-temperature piezoelectric vibration energy harvester based on BiScO3-PbTiO3 ceramic. Applied Physics Letters, 2016, 109, .	1.5	47
53	Excitation of fundamental shear horizontal wave by using face-shear (d36) piezoelectric ceramics. Journal of Applied Physics, 2016, 119, .	1.1	47
54	Dual-stimulus magnetoelectric energy harvesting. MRS Bulletin, 2018, 43, 199-205.	1.7	47

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55	Piezoelectric Ring-Morph Actuators for Valve Application. , 2002, 8, 155-161.		44
56	Review of Magnetoelectric Sensors. Actuators, 2021, 10, 109.	1.2	42
57	A double-mode piezoelectric single-crystal ultrasonic micro-actuator. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 2596-2600.	1.7	41
58	A piezoelectric single crystal traveling wave step motor for low-temperature application. Applied Physics Letters, 2008, 92, .	1.5	40
59	A two degrees-of-freedom piezoelectric single-crystal micromotor. Journal of Applied Physics, 2014, 116, .	1.1	40
60	Versatile power and energy conversion of magnetoelectric composite materials with high efficiency via electromechanical resonance. Nano Energy, 2020, 70, 104506.	8.2	40
61	Thermal noise cancellation in symmetric magnetoelectric bimorph laminates. Applied Physics Letters, 2008, 93, 072906.	1.5	38
62	A two-layer linear piezoelectric micromotor. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 405-411.	1.7	38
63	A high-temperature double-mode piezoelectric ultrasonic linear motor. Applied Physics Letters, 2012, 101, 072902.	1.5	37
64	Giant magnetoelectric effect in laminate composites. Philosophical Magazine Letters, 2003, 83, 769-773.	0.5	36
65	Analytical solutions for the transverse deflection of a piezoelectric circular axisymmetric unimorph actuator. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 1240-1249.	1.7	36
66	Magneto-Mechano-Electric (MME) Energy Harvesting Properties of Piezoelectric Macro-fiber Composite/Ni Magnetoelectric Generator. Energy Harvesting and Systems, 2014, 1, 3-11.	1.7	36
67	Theoretical analyses on effective magnetoelectric coupling coefficients in piezoelectric/piezomagnetic laminates. Journal of Applied Physics, 2011, 109, .	1.1	34
68	A square-plate ultrasonic linear motor operating in two orthogonal first bending modes. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 115-120.	1.7	34
69	A standing wave linear ultrasonic motor operating in face-diagonal-bending mode. Applied Physics Letters, 2013, 103, .	1.5	34
70	Three-degree-of-freedom ultrasonic motor using a 5-mm-diameter piezoelectric ceramic tube. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1446-1452.	1.7	32
71	A magnetoelectric flux gate: new approach for weak DC magnetic field detection. Scientific Reports, 2017, 7, 8592.	1.6	32
72	A flexible, wave-shaped P(VDF-TrFE)/metglas piezoelectric composite for wearable applications. Journal of Applied Physics, 2016, 120, .	1.1	31

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73	A low-power and high-sensitivity magnetic field sensor based on converse magnetoelectric effect. Applied Physics Letters, 2019, 115, .	1.5	30
74	(Na_{1/2}Bi_{1/2})TiO₃â€based leadâ€free coâ€fired multilayer actuators with large strain and high fatigue resistance. Journal of the American Ceramic Society, 2019, 102, 6147-6155.	1.9	30
75	High-performance Pb(Ni1/3Nb2/3)O3-PbZrO3-PbTiO3 ceramics with the triple point composition. Journal of the European Ceramic Society, 2021, 41, 6983-6990.	2.8	30
76	Tunable features of magnetoelectric transformers. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 1124-1127.	1.7	29
77	MnO 2 doped PSNâ€“PZNâ€“PZT piezoelectric ceramics for resonant actuator application. Journal of Alloys and Compounds, 2014, 615, 676-682.	2.8	29
78	Morphotropic phase boundary and high temperature dielectric, piezoelectric, and ferroelectric properties of (1â^'x)Bi(Sc3/4In1/4)O3-xPbTiO3 ceramics. Journal of Applied Physics, 2011, 110, .	1.1	28
79	Ferroelectric, piezoelectric, and dielectric properties of BiScO3-PbTiO3-Pb(Cd1/3Nb2/3)O3 ternary high temperature piezoelectric ceramics. Journal of Applied Physics, 2013, 114, .	1.1	26
80	A multilayered-cylindrical piezoelectric shear actuator operating in shear (d15) mode. Applied Physics Letters, 2018, 112, .	1.5	26
81	Magnetoelectric devices based on magnetoelectric bulk composites. Journal of Materials Chemistry C, 2021, 9, 5594-5614.	2.7	26
82	A spiral motion piezoelectric micromotor for autofocus and auto zoom in a medical endoscope. Applied Physics Letters, 2016, 108, 052902.	1.5	25
83	A modified barbell-shaped PNN-PZT-PIN piezoelectric ceramic energy harvester. Applied Physics Letters, 2017, 111, .	1.5	25
84	Sound-resonance hydrogen sensor. Applied Physics Letters, 2003, 82, 4590-4592.	1.5	24
85	Voltage-Driven Nonlinearity in Magnetoelectric Heterostructures. Physical Review Applied, 2019, 12, .	1.5	24
86	A 1D Magnetoelectric Sensor Array for Magnetic Sketching. Advanced Materials Technologies, 2019, 4, 1800484.	3.0	24
87	High-temperature actuation performance of BiScO₃â€“PbTiO₃ ceramics and their multilayer configuration. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 446-450.	1.7	23
88	Structure and enhanced piezoelectric performance of BiScO3-PbTiO3-Pb(Ni1/3Nb2/3)O3 ternary high temperature piezoelectric ceramics. Journal of Alloys and Compounds, 2019, 806, 11-18.	2.8	23
89	Enhanced low-frequency magnetic field sensitivity in magnetoelectric composite with amplitude modulation method. Applied Physics Letters, 2019, 114, .	1.5	23
90	Ultralow dielectric loss of BiScO3-PbTiO3 ceramics by Bi(Mn1/2Zr1/2)O3 modification. Journal of the European Ceramic Society, 2020, 40, 3003-3010.	2.8	22

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91	A high-temperature piezoelectric linear actuator operating in two orthogonal first bending modes. Applied Physics Letters, 2013, 102, .	1.5	21
92	Full set of material constants of (Na0.5K0.5)NbO3â€“BaZrO3â€“(Bi0.5Li0.5)TiO3 lead-free piezoelectric ceramics at the morphotropic phase boundary. Journal of Alloys and Compounds, 2016, 655, 290-295.	2.8	21
93	Low-power eddy current detection with 1-1 type magnetoelectric sensor for pipeline cracks monitoring. Sensors and Actuators A: Physical, 2021, 318, 112496.	2.0	21
94	A miniature cylindrical piezoelectric motor with an asymmetric vibrator. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1498-1504.	1.7	20
95	Effect of magnetic domain structure on longitudinal and transverse magnetoelectric response of particulate magnetostrictive-piezoelectric composites. Applied Physics Letters, 2014, 104, .	1.5	20
96	Significantly Enhanced Power Generation from Extremely Lowâ€Intensity Magnetic Field via a Clampedâ€Clamped Magnetoâ€Mechanoâ€Electric Generator. Advanced Energy Materials, 2022, 12, .	10.2	20
97	Magnetoelectric laminate based DC magnetic field sensor. Physica Status Solidi - Rapid Research Letters, 2008, 2, 108-110.	1.2	19
98	Investigation on Resonant Vibration Performances of Feâ€Doped BiScO₃â€“PbTiO₃ Ceramics in Highâ€Temperature Environment. Journal of the American Ceramic Society, 2015, 98, 3145-3152.	1.9	19
99	Novel method for driving the ultrasonic motor. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 1356-1362.	1.7	18
100	A shear-bending mode high temperature piezoelectric actuator. Applied Physics Letters, 2012, 101, .	1.5	18
101	A magneto-mechano-electric (MME) energy harvester based on rectangular cymbal structure. Sensors and Actuators A: Physical, 2020, 316, 112400.	2.0	18
102	A micromachined piezoelectric microgripper for manipulation of micro/nanomaterials. Review of Scientific Instruments, 2017, 88, 065002.	0.6	17
103	Low-Temperature Co-Fired Unipoled Multilayer Piezoelectric Transformers. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 513-519.	1.7	17
104	A hexagonal-framed magnetoelectric composite for magnetic vector measurement. Applied Physics Letters, 2018, 113, .	1.5	17
105	A PMNNâ€PZT Piezoceramic Based Magnetoâ€Mechanoâ€Electric Coupled Energy Harvester. Advanced Functional Materials, 2022, 32, .	7.8	17
106	A passive isolator realized by magnetoelectric laminate composites. Applied Physics Letters, 2018, 113, .	1.5	16
107	A Magnetoelectric Compass for In-Plane AC Magnetic Field Detection. IEEE Transactions on Industrial Electronics, 2021, 68, 3527-3536.	5.2	16
108	Eddy-current effect on resonant magnetoelectric coupling in magnetostrictive-piezoelectric laminated composites. Journal of Applied Physics, 2013, 114, .	1.1	15

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109	Enhanced piezoelectric performance of (0.98-x)Bi(Sc3/4In1/4)O3-xPbTiO3-0.02Pb(Zn1/3Nb2/3)O3 ternary high temperature piezoelectric ceramics. Journal of Applied Physics, 2013, 113, .	1.1	15
110	Theoretical analysis on low frequency magneto-mechano-electric coupling behavior in piezo-unimorph/magnet composite. Journal of Applied Physics, 2014, 115, 164104.	1.1	15
111	A square-plate piezoelectric linear motor operating in two orthogonal and isomorphic face-diagonal-bending modes. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 159-165.	1.7	15
112	Enhanced piezoelectric performance of BiScO3-PbTiO3 ceramics modified by 0.03Pb(Sb1/2Nb1/2)O3. Journal of Alloys and Compounds, 2018, 731, 1140-1145.	2.8	15
113	A ring-shaped, linear piezoelectric ultrasonic motor operating in E01 mode. Applied Physics Letters, 2020, 116, .	1.5	15
114	Designing Ordered Structure with Piezoceramic Actuation Units (OSPAU) for Generating Continual Nanostep Motion. Advanced Science, 2020, 7, 2001155.	5.6	15
115	Designing Artificial Vibration Modes of Piezoelectric Devices Using Programmable, 3D Ordered Structure with Piezoceramic Strain Units. Advanced Materials, 2022, 34, e2107236.	11.1	15
116	Low temperature sintering of Li2CO3 added Pb(Ni1/3Nb2/3)-Pb(Zr,Ti)O3 ceramics with high piezoelectric properties. Journal of Alloys and Compounds, 2022, 892, 162132.	2.8	14
117	Enhanced electrical manipulation of magnetic susceptibility in ferromagnetic amorphous alloy and piezoelectric bimorph heterostructure. Journal of Applied Physics, 2013, 114, 064107.	1.1	13
118	Actuation performance and heat generation of shear-bending actuator based on BiScO3-PbTiO3 ceramics from 25 to 300â€‰Â°C. Applied Physics Letters, 2015, 107, .	1.5	13
119	Enhancing weak magnetic field MME coupling in NdFeB magnet/piezoelectric composite cantilevers with stress concentration effect. Applied Physics Letters, 2021, 118, .	1.5	13
120	3D-printed flexible, multilayered ceramic-polymer composite grid with integrated structural-self-sensing function. Sensors and Actuators A: Physical, 2021, 332, 113187.	2.0	13
121	An approach combining additive manufacturing and dielectrophoresis for 3D-structured flexible lead-free piezoelectric composites for electromechanical energy conversion. Journal of Materials Chemistry A, 2021, 9, 26767-26776.	5.2	13
122	Epitaxial growth and capacitance-voltage characteristics of BiFeO3/CeO2/yttria-stabilized zirconia/Si(001) heterostructure. Applied Physics Letters, 2012, 100, 252908.	1.5	12
123	Enhanced self-bias magnetoelectric effect in locally heat-treated ME laminated composite. Applied Physics Letters, 2019, 115, .	1.5	12
124	A Piezoelectric and Electromagnetic Dual Mechanism Multimodal Linear Actuator for Generating Macro- and Nanomotion. Research, 2019, 2019, 8232097.	2.8	12
125	A piezoelectric-sound-resonance cavity for hydrogen gas detection. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 1105-1113.	1.7	10
126	A piezoelectric pseudo-bimorph actuator. Applied Physics Letters, 2013, 102, .	1.5	10

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127	Electrode shape dependence of the barbell-shaped magneto-mechano-electric energy harvester for low-frequency applications. Sensors and Actuators A: Physical, 2019, 297, 111535.	2.0	10
128	Quantitative studies of domain evolution in tetragonal BSâ€“PT ceramics in electric poling and thermal depoling processes. Journal of Materials Chemistry C, 2019, 7, 4517-4526.	2.7	10
129	A piezoelectric single-crystal ultrasonic microactuator for driving optics. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2737-2742.	1.7	9
130	Cryogenic motion performances of a piezoelectric single crystal micromotor. Journal of Applied Physics, 2014, 115, .	1.1	9
131	A diffraction-plane-transformation model for quantitatively evaluating 90Â° domain evolution in tetragonal BS-PT piezoelectric ceramic. Journal of Alloys and Compounds, 2018, 745, 669-676.	2.8	9
132	A ring-shaped linear ultrasonic motor based on PSN-PMS-PZT ceramic. Sensors and Actuators A: Physical, 2020, 309, 112036.	2.0	9
133	Quantitative domain engineering for realizing d36 piezoelectric coefficient in tetragonal ceramics. Acta Materialia, 2020, 188, 416-423.	3.8	9
134	Unconventional piezoelectric coefficients in perovskite piezoelectric ceramics. Journal of Materiomics, 2021, 7, 254-263.	2.8	9
135	Low-Frequency Magnetic Field Detection Using Magnetoelectric Sensor With Optimized Metglas Layers by Frequency Modulation. IEEE Sensors Journal, 2022, 22, 4028-4035.	2.4	9
136	Equivalent circuit and optimum design of a multilayer laminated piezoelectric transformer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2504-2515.	1.7	8
137	From Model to Algorithms: Distributed Magnetic Sensor System for Vehicle Tracking. IEEE Transactions on Industrial Informatics, 2023, 19, 2963-2972.	7.2	8
138	A method to compensate for the lift off effect of ACFM in crack estimation of nonferromagnetic metals. Journal of Magnetism and Magnetic Materials, 2022, 554, 169301.	1.0	8
139	Highly-Sensitive MEMS Micro-Fluxgate Magnetometer. IEEE Electron Device Letters, 2022, 43, 1327-1330.	2.2	8
140	A digitally linear piezoelectric bimorph actuator in open-loop mode. Applied Physics Letters, 2013, 102, 123503.	1.5	7
141	Tailoring Artificial Mode to Enable Cofired Integration of Shearâ€type Piezoelectric Devices. Advanced Science, 2020, 7, 2001368.	5.6	7
142	A bending-bending mode piezoelectric actuator based on PIN-PMN-PT crystal stacks. Sensors and Actuators A: Physical, 2021, 331, 113052.	2.0	7
143	Jumping and hysteresis effect in 1â€“1-typed magnetoelectric resonators. Applied Physics Letters, 2021, 119, .	1.5	7
144	Development of hard high-temperature piezoelectric ceramics for actuator applications. Journal of Materials Science: Materials in Electronics, 2015, 26, 9350-9354.	1.1	6

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145	A square-framed ME composite with inherent multiple resonant peaks for broadband magnetoelectric response. Science Bulletin, 2017, 62, 1177-1180.	4.3	6
146	Magnetoelectric coupling of a magnetoelectric flux gate sensor in vibration noise circumstance. AIP Advances, 2018, 8, .	0.6	6
147	A differential magnetoelectric laminated composite for vibration noise suppression. Science Bulletin, 2014, 59, 5223-5226.	1.7	5
148	Enhanced Actuation Performance and Reduced Heat Generation in Shear-Bending Mode Actuator at High Temperature. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 1186-1191.	1.7	5
149	Resonance acoustic field position sensor. Applied Physics Letters, 2003, 82, 4181-4183.	1.5	4
150	An acoustic position sensor. Review of Scientific Instruments, 2003, 74, 4863-4868.	0.6	4
151	Converse magnetoelectric effect in laminated composite of Metglas and Pb(Zr,Ti)O3 with screen-printed interdigitated electrodes. AIP Advances, 2014, 4, 067105.	0.6	4
152	Highly Sensitive Magneto-Mechano-Electric Magnetic Field Sensor Based on Torque Effect. IEEE Sensors Journal, 2021, 21, 1409-1416.	2.4	4
153	A co-fired multilayer PMnS-PZT ceramic based linear piezoelectric ultrasonic micromotor with a high-load-density. Applied Physics Letters, 2022, 120, .	1.5	4
154	Vacuum response and gas leak detection in piezoelectrically driven sound-resonance cavity. Applied Physics Letters, 2004, 84, 4144-4146.	1.5	3
155	High power density magnetoelectric energy harvester. , 2008, , .		3
156	Large electrical manipulation of permittivity in BaTiO3 and Pb(Zr,Ti)O3 bimorph heterostructure. Applied Physics Letters, 2014, 105, .	1.5	3
157	Phase transitional behavior and enhanced electrical properties of Bi(Sc3/4In1/4)O3â€“PbTiO3 by small content Pb(Mg1/3Nb2/3)O3 modification. Journal of Materials Science: Materials in Electronics, 2016, 27, 606-612.	1.1	3
158	Theoretical analysis on shear-bending deflection of a ring-shape piezoelectric plate. AIP Advances, 2016, 6, .	0.6	3
159	Using magnetoelectric effect to reveal magnetization behavior of bulk and heavy ferromagnetic materials. Applied Materials Today, 2021, 23, 101051.	2.3	3
160	Monolithic piezoceramic actuators with a twist. Science China Materials, 2021, 64, 2777-2785.	3.5	2
161	Control of ferromagnetic resonance by phase change in Si/GeSbTe/FeCoB heterostructures. Journal of Magnetism and Magnetic Materials, 2021, 538, 168312.	1.0	2
162	Multiferroic Magnetoelectric Composites: Historical Perspective, Status, and Future Directions. , 2020, , 191-293.		2

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163	Conductive mechanism and the enhancement high-power electrical properties of Mn-modified Bi(Sc3/4In1/4)O3â€“PbTiO3â€“Pb(Mg1/3Nb2/3)O3 high temperature piezoelectric ceramics. Journal of Materials Science: Materials in Electronics, 2019, 30, 7780-7786.	1.1	1
164	Piezoelectrically actuated vibrating flexible differential capacitances for electrostatic detection. Applied Physics Letters, 2019, 114, .	1.5	1
165	Effective enhancement of piezomagnetic effect in core/shell structured cobalt/manganese-zinc nanocomposite. Applied Materials Today, 2020, 21, 100834.	2.3	1
166	Multiferroic Composites. , 2021, , 225-240.		1
167	Axial compressive stress for depolarization suppression and source level enhancement of underwater projectors made of [011]-poled PZN-PT single crystals. Applied Physics Letters, 2022, 120, .	1.5	1
168	Study on piezoelectric ceramic/metal composite thin plate of driving stator for travelling-wave motor. , 0, , .		0
169	Study on characteristics of standing wave motors. , 0, , .		0
170	Study on standing wave ultrasonic motor with L-B mode. Ferroelectrics, 1997, 195, 159-162.	0.3	0
171	Magnetoelectric Laminate Composites â€“ Enhanced Magnetic Field Sensitivity, and High Voltage Gain. Materials Research Society Symposia Proceedings, 2005, 881, 1.	0.1	0