

Zhuo Xu

List of Publications by Year in descending order

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281
papers

12,121
citations

44069

48
h-index

29157

104
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282
all docs

282
docs citations

282
times ranked

6914
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-high piezoelectricity in ferroelectric ceramics by design. <i>Nature Materials</i> , 2018, 17, 349-354.	27.5	874
2	The origin of ultra-high piezoelectricity in relaxor-ferroelectric solid solution crystals. <i>Nature Communications</i> , 2016, 7, 13807.	12.8	510
3	Giant piezoelectricity of Sm-doped $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - PbTiO_3 single crystals. <i>Science</i> , 2019, 364, 264-268.	12.6	479
4	Potassium-sodium niobate based lead-free ceramics: novel electrical energy storage materials. <i>Journal of Materials Chemistry A</i> , 2017, 5, 554-563.	10.3	472
5	Grain size engineered lead-free ceramics with both large energy storage density and ultra-high mechanical properties. <i>Nano Energy</i> , 2019, 58, 768-777.	16.0	457
6	Significantly enhanced recoverable energy storage density in potassium-sodium niobate-based lead free ceramics. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13778-13785.	10.3	409
7	Electrostrictive effect in ferroelectrics: An alternative approach to improve piezoelectricity. <i>Applied Physics Reviews</i> , 2014, 1, 011103.	11.3	395
8	Multilayer Lead-Free Ceramic Capacitors with Ultra-high Energy Density and Efficiency. <i>Advanced Materials</i> , 2018, 30, e1802155.	21.0	392
9	Transparent ferroelectric crystals with ultra-high piezoelectricity. <i>Nature</i> , 2020, 577, 350-354.	27.8	360
10	Grain-orientation-engineered multilayer ceramic capacitors for energy storage applications. <i>Nature Materials</i> , 2020, 19, 999-1005.	27.5	347
11	Achieve ultra-high energy storage performance in BaTiO_3 - $\text{Bi}(\text{Mg}_{1/2}\text{Ti}_{1/2})\text{O}_3$ relaxor ferroelectric ceramics via nano-scale polarization mismatch and reconstruction. <i>Nano Energy</i> , 2020, 67, 104264.	16.0	320
12	High energy density in silver niobate ceramics. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17279-17287.	10.3	318
13	Ultra-wideband polarization conversion metasurfaces based on multiple plasmon resonances. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	304
14	Phase transitions in bismuth-modified silver niobate ceramics for high power energy storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17525-17531.	10.3	288
15	Electric energy storage properties of poly(vinylidene fluoride). <i>Applied Physics Letters</i> , 2010, 96, .	3.3	280
16	Wideband radar cross section reduction using two-dimensional phase gradient metasurfaces. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	190
17	Phase transitions in tantalum-modified silver niobate ceramics for high power energy storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 834-842.	10.3	185
18	High-efficiency spoof plasmon polariton coupler mediated by gradient metasurfaces. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	153

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19	Filter-Antenna Consisting of Conical FSS Radome and Monopole Antenna. IEEE Transactions on Antennas and Propagation, 2012, 60, 3040-3045.	5.1	149
20	A new family of sodium niobate-based dielectrics for electrical energy storage applications. Journal of the European Ceramic Society, 2019, 39, 2899-2907.	5.7	144
21	Structural and Dielectric Properties of $(\text{Mg}_{1/2}\text{Ti}_{1/2})\text{O}_3$ - BaTiO_3 Lead-Free Ceramics. Journal of the American Ceramic Society, 2011, 94, 4335-4339.	3.8	133
22	The Contributions of Polar Nanoregions to the Dielectric and Piezoelectric Responses in Domain-Engineered Relaxor PbTiO_3 Crystals. Advanced Functional Materials, 2017, 27, 1700310.	14.9	129
23	Thermally tunable water-substrate broadband metamaterial absorbers. Applied Physics Letters, 2017, 110, .	3.3	127
24	Evidences of grain boundary capacitance effect on the colossal dielectric permittivity in (Nb + In) co-doped TiO_2 ceramics. Scientific Reports, 2015, 5, 8295.	3.3	126
25	A Novel High-Directivity Microstrip Patch Antenna Based on Zero-Index Metamaterial. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 538-541.	4.0	123
26	Ghost Imaging Based on Deep Learning. Scientific Reports, 2018, 8, 6469.	3.3	114
27	A Reconfigurable Polarization Converter Using Active Metasurface and Its Application in Horn Antenna. IEEE Transactions on Antennas and Propagation, 2016, 64, 5281-5290.	5.1	107
28	Material parameter equation for elliptical cylindrical cloaks. Physical Review A, 2008, 77, .	2.5	99
29	$\text{Pb}_{0.94}\text{La}_{0.04}[(\text{Zr}_{0.70}\text{Sn}_{0.30})_{0.90}\text{Ti}_{0.10}]_3\text{O}_{30}$ antiferroelectric bulk ceramics for pulsed capacitors with high energy and power density. Applied Physics Letters, 2017, 110, .	3.3	99
30	Electrostrictive effect in $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - PbTiO_3 crystals. Applied Physics Letters, 2013, 102, .	3.3	90
31	Temperature Dependence of Energy Storage in $\text{Pb}_{0.90}\text{La}_{0.04}\text{Ba}_{0.04}[(\text{Zr}_{0.7}\text{Sn}_{0.3})_{0.88}\text{Ti}_{0.12}]_3\text{O}_{30}$ Antiferroelectric Ceramics. Journal of the American Ceramic Society, 2016, 99, 2984-2988.	3.3	90
32	Gradient Metasurface With Both Polarization-Controlled Directional Surface Wave Coupling and Anomalous Reflection. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 104-107.	4.0	85
33	Water-based metamaterial absorbers for optical transparency and broadband microwave absorption. Journal of Applied Physics, 2018, 123, .	2.5	81
34	Spatial k-dispersion engineering of spoof surface plasmon polaritons for customized absorption. Scientific Reports, 2016, 6, 29429.	3.3	76
35	Influence of MnO_2 Doping on the Dielectric and Piezoelectric Properties and the Domain Structure in $(\text{K}_{0.5}\text{Na}_{0.5})\text{NbO}_3$ Single Crystals. Journal of the American Ceramic Society, 2010, 93, 941-944.	3.8	71
36	Textured ferroelectric ceramics with high electromechanical coupling factors over a broad temperature range. Nature Communications, 2021, 12, 1414.	12.8	71

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37	Experimental Demonstration of An Absorptive/Transmissive FSS With Magnetic Material. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 114-117.	4.0	70
38	Temperature Dependence of Dielectric/Piezoelectric Properties of $(1-x)Bi(Mg_{1/2}Ti_{1/2})O_3-xPbTiO_3$ Ceramics with an MPB Composition. Journal of the American Ceramic Society, 2010, 93, 3330-3334.	3.8	69
39	The open cloak. Applied Physics Letters, 2009, 94, .	3.3	67
40	Three-Band Polarization Converter Based on Reflective Metasurface. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 924-927.	4.0	64
41	Effects of ZnNb ₂ O ₆ addition on BaTiO ₃ ceramics for energy storage. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2013, 178, 1081-1086.	3.5	63
42	Manipulation of Oxygen Vacancy for High Photovoltaic Output in Bismuth Ferrite Films. ACS Applied Materials & Interfaces, 2019, 11, 23372-23381.	8.0	62
43	Colossal permittivity behavior and its origin in rutile $(Mg_{1/3}Ta_{2/3})Ti-xO_2$. Scientific Reports, 2017, 7, 9950.	3.3	60
44	Reverse boundary layer capacitor model in glass/ceramic composites for energy storage applications. Journal of Applied Physics, 2013, 113, .	2.5	56
45	PLZST antiferroelectric ceramics with promising energy storage and discharge performance for high power applications. Journal of the American Ceramic Society, 2020, 103, 1831-1838.	3.8	56
46	Crystalline properties dependence of dielectric and energy storage properties of poly(vinylidene fluoride)/BaTiO ₃ composites. Journal of Applied Physics, 2010, 107, 104101.	3.3	53
47	Experimental realization of all-dielectric composite cubes/rods left-handed metamaterial. Journal of Applied Physics, 2011, 109, .	2.5	53
48	Generation of Multiple Modes Microwave Vortex Beams Using Active Metasurface. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 59-63.	4.0	53
49	Phase transition and phase stability in [110]-, [001]-, and [111]-oriented $0.68Pb(Mg_{1/3}Nb_{2/3})O_3-xPbTiO_3$ single crystal under electric field. Journal of Applied Physics, 2008, 104, 024112.	2.5	48
50	Effects of phase transition on discharge properties of PLZST antiferroelectric ceramics. Journal of the American Ceramic Society, 2017, 100, 3618-3625.	3.8	48
51	Radar Coincidence Imaging With Random Microwave Source. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1239-1242.	4.0	46
52	Ferroelectric crystals with giant electro-optic property enabling ultracompact Q-switches. Science, 2022, 376, 371-377.	12.6	46
53	Investigation of Electromechanical Properties and Related Temperature Characteristics in Domain-Engineered Tetragonal $Pb(In_{1/2}Nb_{1/2})O_3-xPb(Mg_{1/3}Nb_{2/3})O_3-xPbTiO_3$ Crystals. Journal of the American Ceramic Society, 2010, 93, 2731-2734.	3.8	44
54	Super-Thin Cloaks Based on Microwave Networks. IEEE Transactions on Antennas and Propagation, 2013, 61, 748-754.	5.1	44

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55	Impact of alternating current electric field poling on piezoelectric and dielectric properties of $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3$ – $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ – PbTiO_3 ferroelectric crystals. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	44
56	Achieving single domain relaxor-PT crystals by high temperature poling. <i>CrystEngComm</i> , 2014, 16, 2892-2897.	2.6	43
57	Phase transition and dielectric properties of La-doped $\text{Pb}(\text{Zr},\text{Sn},\text{Ti})\text{O}_3$ antiferroelectric ceramics under hydrostatic pressure and temperature. <i>Journal of Applied Physics</i> , 2002, 92, 2663-2667.	2.5	41
58	Low-Profile High-Efficiency Bidirectional Endfire Antenna Based on Spoof Surface Plasmon Polaritons. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018, 17, 837-840.	4.0	41
59	Dielectric resonator antenna with $\text{Y}_{3}\text{Al}_{5}\text{O}_{12}$ transparent dielectric ceramics for 5G millimeter-wave applications. <i>Journal of the American Ceramic Society</i> , 2021, 104, 4659-4668.	3.8	41
60	Multiband left-handed metamaterials. <i>Applied Physics Letters</i> , 2009, 95, 014105.	3.3	40
61	Ultra-slim pinched polarization-electric field hysteresis loops and thermally stable electrostrains in lead-free sodium bismuth titanate-based solid solutions. <i>Journal of Alloys and Compounds</i> , 2019, 788, 1182-1192.	5.5	37
62	Temperature- and dc bias field- dependent piezoelectric effect of soft and hard lead zirconate titanate ceramics. <i>Journal of Electroceramics</i> , 2010, 24, 294-299.	2.0	36
63	Dielectric/ferroelectric response and phase transition of $\text{PMN}_{0.32}\text{PT}$ single crystal. <i>Journal of Materials Science Letters</i> , 2002, 21, 1325-1327.	0.5	35
64	Structural Distortion, Spin-Phonon Coupling, Interband Electronic Transition, and Enhanced Magnetization in Rare-Earth-Substituted Bismuth Ferrite. <i>Inorganic Chemistry</i> , 2017, 56, 8964-8974.	4.0	34
65	Electric-field and temperature induced phase transitions in $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ – 0.3PbTiO_3 single crystals. <i>Journal of Applied Physics</i> , 2010, 108, 034112.	2.5	33
66	Variations of composition and dielectric properties of $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3$ – $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ – PbTiO_3 single crystal along growth direction. <i>Journal of Applied Physics</i> , 2013, 113, 124105.	2.5	32
67	Ferroelectric transitions in silver niobate ceramics. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1028-1034.	5.5	32
68	Lead-Free Bilayer Thick Films with Giant Electrocaloric Effect near Room Temperature. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23346-23352.	8.0	32
69	Effect of dc bias on pressure-induced depolarization of $\text{Pb}(\text{Nb},\text{Zr},\text{Sn},\text{Ti})\text{O}_3$ ceramics. <i>Applied Physics Letters</i> , 2008, 92, 072904.	3.3	31
70	Ferroelectric, Ferromagnetic, and Magnetoelectric Characteristics of $0.9(0.7\text{BiFeO}_3)$ – 0.3BaTiO_3 – $0.1\text{CoFe}_2\text{O}_4$ Ceramic Composite. <i>Journal of the American Ceramic Society</i> , 2010, 93, 2975-2977.	3.8	31
71	Symmetry changes during relaxation process and pulse discharge performance of the BaTiO_3 – $\text{Bi}(\text{Mg}_{1/2}\text{Ti}_{1/2})\text{O}_3$ ceramic. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	31
72	Ultrahigh-Speed Color Imaging with Single-Pixel Detectors at Low Light Level. <i>Physical Review Applied</i> , 2019, 12, .	3.8	31

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73	SiO ₂ –Ti _{0.98} In _{0.01} Nb _{0.01} O ₂ composite ceramics with low dielectric loss, high dielectric permittivity and an enhanced breakdown electric field. RSC Advances, 2016, 6, 20074-20080.	3.6	29
74	Thermally stable electrostrains and composition-dependent electrostrictive coefficient Q33 in lead-free ferroelectric ceramics. Ceramics International, 2019, 45, 22854-22861.	4.8	29
75	Fully-inverted piezoresponse hysteresis loops mediated by charge injection in 0.29Pb(In _{1/2} Nb _{1/2})O ₃ –0.44Pb(Mg _{1/3} Nb _{2/3})O ₃ –0.27PbTiO ₃ single crystals. Applied Physics Letters, 2011, 98, 3.	3.3	28
76	Fabrication and Piezoelectric Property of BaTiO ₃ Nanofibers. Journal of the American Ceramic Society, 2014, 97, 2725-2730.	3.8	28
77	Low radar cross section checkerboard metasurface with a transmission window. Journal of Applied Physics, 2018, 124, .	2.5	28
78	Effect of particle morphology on the photocatalytic activity of BiFeO ₃ microcrystallites. Journal of Materials Science: Materials in Electronics, 2012, 23, 1869-1874.	2.2	27
79	A band enhanced metamaterial absorber based on E-shaped all-dielectric resonators. AIP Advances, 2015, 5, .	1.3	27
80	Dual-band and high-efficiency polarization converter based on metasurfaces at microwave frequencies. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	27
81	Preparation and characterization of high T _c (1–x) BiScO ₃ –xPbTiO ₃ ceramics from high energy ball milling process. Journal of Electroceramics, 2008, 21, 605-608.	2.0	26
82	Growth of the Relaxor Based Ferroelectric Single Crystals Pb(In _{1/2} Nb _{1/2})O ₃ -Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ by Vertical Bridgman Technique. Ferroelectrics, 2010, 401, 173-180.	0.6	26
83	Piezoresponse force microscopy studies on the domain structures and local switching behavior of Pb(In _{1/2} Nb _{1/2})O ₃ -Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ single crystals. Journal of Applied Physics, 2012, 112, 052006.	2.5	26
84	Surfactant-Tuned Phase Structure and Morphologies of Cu ₂ ZnSnS ₄ Hierarchical Microstructures and Their Visible-Light Photocatalytic Activities. Nanoscale Research Letters, 2017, 12, 181.	5.7	26
85	Wideband selective polarization conversion mediated by three-dimensional metamaterials. Journal of Applied Physics, 2014, 115, 234506.	2.5	25
86	Hydrothermal synthesis and photocatalytic property of Bi ₂ MoO ₆ /ZnO composite material. Research on Chemical Intermediates, 2015, 41, 7273-7283.	2.7	25
87	Dipolar-glass-like relaxor ferroelectric behaviour in the 0.5BaTiO ₃ -0.5Bi(Mg _{1/2} Ti _{1/2})O ₃ electroceramic. Applied Physics Letters, 2013, 103, .	3.3	24
88	High energy density nanocomposites based on poly(vinylidene fluoride–chlorotrifluoroethylene) and barium titanate. Polymer Engineering and Science, 2013, 53, 897-904.	3.1	24
89	Electric-field-induced AFE-FE transitions and associated strain/preferred orientation in antiferroelectric PLZST. Scientific Reports, 2016, 6, 23659.	3.3	24
90	Transparent Metasurface for Generating Microwave Vortex Beams with Cross-Polarization Conversion. Materials, 2018, 11, 2448.	2.9	24

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91	Ferroelectric and Ferromagnetic Properties of $0.7\text{BiFe}_{1-x}\text{Cr}_x\text{O}_3$ Solid Solutions. <i>Journal of the American Ceramic Society</i> , 2008, 91, 3731-3734.	3.8	23
92	Improve piezoelectricity and elasticity of Ce-doped BaTiO_3 nanofibers towards energy harvesting application. <i>RSC Advances</i> , 2015, 5, 55269-55276.	3.6	23
93	Reconfigurable all-dielectric metamaterial frequency selective surface based on high-permittivity ceramics. <i>Scientific Reports</i> , 2016, 6, 24178.	3.3	23
94	Antiferroelectrics: Multilayer Lead-Free Ceramic Capacitors with Ultrahigh Energy Density and Efficiency (<i>Adv. Mater.</i> 32(2018)). <i>Advanced Materials</i> , 2018, 30, 1870240.	21.0	23
95	The hydrostatic pressure dependence of the piezoelectric properties for the barium titanate and lead titanate crystals: Thermodynamic analysis. <i>Journal of Applied Physics</i> , 2011, 109, 114111.	2.5	21
96	Dependence of dielectric, ferroelectric, and piezoelectric properties on crystalline properties of $\text{p}(\text{VDF-co-TrFE})$ copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 1271-1276.	2.1	21
97	of the coupling between the octahedral rotation and $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle$ site ionic displacements in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle$ $\text{PbZr}_{1-x}\text{Ti}_x\text{O}_3$ -based antiferroelectric materials investigated by <i>in-situ</i> neutron diffraction. <i>Physical Review B</i> , 2017, 95, 014107.		20
98	Domain switching contribution to piezoelectric response in BaTiO_3 single crystals. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	19
99	Characterization of KNN Single Crystals by Slow-Cooling Technique. <i>Ferroelectrics</i> , 2009, 381, 1-8.	0.6	19
100	Compositional segregation and electrical properties characterization of [001]- and [011]-oriented co-growth $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3$ - $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - PbTiO_3 single crystal. <i>Journal of Applied Physics</i> , 2018, 123, 154107.	2.5	19
101	Microstructure and properties of Ga-modified 0.7BiFeO_3 - 0.3BaTiO_3 solid solution. <i>Science Bulletin</i> , 2007, 52, 2747-2752.	1.7	18
102	Poly (Vinylidene Fluoride-Chlorotrifluoroethylene)/ BaTiO_3 Composites with High Electrical Energy Density. <i>Ferroelectrics</i> , 2010, 407, 125-133.	0.6	18
103	Microstructure, Dielectric, and Piezoelectric Properties of Ce-Modified $\text{CaBi}_2\text{Nb}_2\text{O}_9$ Ceramics. <i>Ferroelectrics</i> , 2010, 404, 127-133.	0.6	18
104	Discharging and energy-releasing properties of $\text{Pb}_{0.90}\text{La}_{0.04}\text{Ba}_{0.04}[(\text{Zr}_{0.6}\text{Sn}_{0.4})_{0.85}\text{Ti}_{0.15}]\text{O}_3$ antiferroelectric ceramics under different electric fields. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 3071-3075.	2.2	18
105	Tangential Network Transmission Theory of Reflective Metasurface With Obliquely Incident Plane Waves. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018, 66, 64-72.	4.6	18
106	Fabrication of Wideband Low-Profile Dielectric Patch Antennas from Temperature Stable 0.65CaTiO_3 - 0.35LaAlO_3 Microwave Dielectric Ceramic. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	18
107	Achieving both high electromechanical properties and temperature stability in textured PMN-PT ceramics. <i>Journal of the American Ceramic Society</i> , 2022, 105, 3322-3330.	3.8	18
108	Dual band frequency selective surface based on circular aperture-coupled patches. <i>Microwave and Optical Technology Letters</i> , 2011, 53, 1784-1786.	1.4	17

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109	Hydrostatic piezoelectric properties of [011] poled $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - PbTiO_3 single crystals and 2-2 lamellar composites. <i>Applied Physics Letters</i> , 2014, 104, 032909.	3.3	17
110	Susceptible Ferroelectric/Antiferroelectric Phase Transition near the Surface of Nb-Doped Lead Zirconate Stannate Titanate from Surface Processing. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14313-14317.	8.0	17
111	Wideband and low-profile transmitarray antenna using transmissive metasurface. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	17
112	A compact second-order frequency selective surface with broadband response. <i>Microwave and Optical Technology Letters</i> , 2012, 54, 392-394.	1.4	16
113	PIN-PMN-PT Single-Crystal-Based $\text{1}\hat{=}^3$ Piezoelectric Composites for Ultrasonic Transducer Applications. <i>Journal of Electronic Materials</i> , 2013, 42, 2564-2569.	2.2	16
114	Effects of Ti content on dielectric and energy storage properties of $(\text{Pb}_{0.94}\text{La}_{0.04})[(\text{Zr}_{0.70}\text{Sn}_{0.30})_{1-x}\text{Ti}_x]\text{O}_3$ ferroelectric/antiferroelectric ceramics. <i>Journal of Advanced Dielectrics</i> , 2016, 06, 1650033.	2.4	16
115	High thermally stable dielectric permittivity, polarization enhancement and electrostrictive properties in Zr-substituted bismuth sodium titanate lead-free ferroelectric ceramics. <i>Ceramics International</i> , 2020, 46, 22889-22899.	4.8	16
116	High-Quality-Factor ALON Transparent Ceramics for 5 GHz Wi-Fi Aesthetically Decorative Antennas. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 46866-46874.	8.0	16
117	Enhanced Piezoelectric Properties and Improved Property Uniformity in Nd-Doped PMN-PT Relaxor Ferroelectric Single Crystals. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	16
118	Numerical simulation and analysis of passive intermodulation caused by multipaction. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	15
119	Generation of a microwave beam with both orbital and spin angular momenta using a transparent metasurface. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	15
120	Babinet Principle for Anisotropic Metasurface With Different Substrates Under Obliquely Incident Plane Wave. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018, 66, 2704-2713.	4.6	14
121	Design of Frequency Selective Surface Based on Spoof Surface Plasmon Polariton Modes. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018, 17, 1123-1126.	4.0	14
122	Phase transition behavior and high electrostrictive strains in $\text{Bi}(\text{Li}_{0.5}\text{Nb}_{0.5})\text{O}_3$ -doped lead magnesium niobate-based solid solutions. <i>Journal of Alloys and Compounds</i> , 2019, 806, 206-214.	5.5	14
123	Effect of anisotropy on phononic band structure and figure of merit of pentamode metamaterials. <i>Journal of Applied Physics</i> , 2020, 127, 124903.	2.5	14
124	The effect of the hydrostatic pressure on the electromechanical properties of ferroelectric rhombohedral single crystals $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{-Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{-PbTiO}_3$. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	13
125	Design of Super-Thin Cloaks With Arbitrary Shapes using Interconnected Patches. <i>IEEE Transactions on Antennas and Propagation</i> , 2015, 63, 384-389.	5.1	13
126	Design of a Dual-Band Dual-Polarization Transparent Frequency Selective Surface. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017, 16, 3172-3175.	4.0	13

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127	Preparation and characterization of $\text{Pb}(\text{Lu}_{1/2}\text{Nb}_{1/2})\text{O}_3$ and $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3$ ternary ferroelectric ceramics with high phase transition temperatures. <i>Journal of the American Ceramic Society</i> , 2018, 101, 5514-5523.	3.8	13
128	1-3 ceramic/polymer composites for high-temperature transducer applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1888-1891.	1.8	12
129	Structure-Driven, Ferroelectric Wake-Up Effect for Electrical Fatigue Relief. <i>Chemistry of Materials</i> , 2020, 32, 6456-6463.	6.7	12
130	High-Performance Curved Piezoelectric Single-Crystal Composites via 3D-Printing-Assisted Dice and Insert Technology for Underwater Acoustic Transducer Applications. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 8137-8145.	8.0	12
131	Ferroelectric Properties and Magnetolectric Effect in $(1-x)\text{Ni}_{0.93}\text{Co}_{0.02}\text{Cu}_{0.05}\text{Fe}_2\text{O}_4$ Particulate Composites. <i>Ferroelectrics</i> , 2010, 410, 29-36.		11
132	Hydrostatic Pressure Dependence of Dielectric, Elastic, and Piezoelectric Properties of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$. <i>Ceramic Journal of the American Ceramic Society</i> , 2011, 94, 2946-2950.	3.8	11
133	Pyroelectric properties of rhombohedral and tetragonal $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{-Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{-PbTiO}_3$ crystals. <i>Journal of Applied Physics</i> , 2011, 110, 106101.	2.5	11
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