

# Biaolin

## List of Publications by Year in descending order

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81  
papers

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201674

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82  
docs citations

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times ranked

1968  
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#	ARTICLE	IF	CITATIONS
1	Giant electrocaloric effect in BiFeO <sub>3</sub> and La codoped PbZr <sub>0.7</sub> Ti <sub>0.3</sub> O <sub>3</sub> epitaxial thin films in a broad temperature range. <i>Journal of Materiomics</i> , 2022, 8, 156-165.	5.7	10
2	Dynamic Behavior of Polar Nanoregions in Relaxor 0.6Bi(Mg <sub>1/2</sub> Ti <sub>1/2</sub> )O <sub>3</sub> –0.4PbTiO <sub>3</sub> . <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2022, 219, .	1.8	8
3	Large electrocaloric effect in two-step-SPS processed Pb(Sc <sub>0.25</sub> In <sub>0.25</sub> Nb <sub>0.25</sub> Ta <sub>0.25</sub> )O <sub>3</sub> medium-entropy ceramics. <i>Ceramics International</i> , 2022, 48, 15640-15646.	4.8	8
4	Large strain response in (Bi <sub>0.5</sub> Na <sub>0.5</sub> )TiO <sub>3</sub> –6BaTiO <sub>3</sub> -based lead-free ceramics at high temperature. <i>Ceramics International</i> , 2022, 48, 9051-9058.	4.8	7
5	Pure negative electrocaloric effect achieved by SiN/p-GaN composite substrate. <i>Nano Energy</i> , 2022, 97, 107195.	16.0	6
6	A co-effective strategy to improve the energy storage performance and the electrocaloric effect of ceramic: Using strain-modified calcined powders as sintering precursor. <i>Functional Materials Letters</i> , 2022, 15, .	1.2	2
7	Structure and relaxor ferroelectric behavior of the novel tungsten bronze type ceramic Sr <sub>5</sub> BiTi <sub>3</sub> Nb <sub>7</sub> O <sub>30</sub> . <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	4
8	Defect engineering in rare-earth doped BaTiO <sub>3</sub> ceramics: Route to high-temperature stability of colossal permittivity. <i>Journal of the American Ceramic Society</i> , 2022, 105, 5725-5737.	3.8	17
9	The high piezoelectricity and thermal stability of high-temperature piezoelectric ceramics BiFeO <sub>3</sub> –0.25BaTiO <sub>3</sub> –xBi <sub>0.5</sub> K <sub>0.5</sub> TiO <sub>3</sub> near the MPB. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8301-8309.		17
10	High dielectric tunability of middle entropy Pb(Sc <sub>0.25</sub> In <sub>0.25</sub> Nb <sub>0.25</sub> Ta <sub>0.25</sub> )O <sub>3</sub> thin films with (111)-preferred orientation. <i>Journal of Alloys and Compounds</i> , 2022, 921, 166101.	5.5	1
11	Tailoring and improving the strong-electric-field electrical properties of the BNT-BT ferroelectric ceramics by a functional-group-doping. <i>Ceramics International</i> , 2021, 47, 6584-6590.	4.8	12
12	Energy Storage and Electrocaloric Cooling Performance of Advanced Dielectrics. <i>Molecules</i> , 2021, 26, 481.	3.8	6
13	Simultaneously achieved high energy storage density and efficiency in (K,Na)NbO <sub>3</sub> -based lead-free ferroelectric films. <i>Journal of the American Ceramic Society</i> , 2021, 104, 4119-4130.	3.8	27
14	Evaluation of energy storage performance of ferroelectric materials by equivalent circuit model. <i>Ceramics International</i> , 2021, 47, 20512-20518.	4.8	4
15	P-GaN-substrate sprouted giant pure negative electrocaloric effect in Mn-doped Pb(Zr <sub>0.3</sub> Ti <sub>0.7</sub> )O <sub>3</sub> thin film with a super-broad operational temperature range. <i>Nano Energy</i> , 2021, 86, 106059.	16.0	18
16	High dielectric tunability with high thermal stability of the (111) highly oriented 0.85Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )-0.15PbTiO <sub>3</sub> thin film prepared by a sol-gel method. <i>Journal of the European Ceramic Society</i> , 2021, 41, 6482-6489.	5.7	7
17	Phase-transition induced optimization of electrostrain, electrocaloric refrigeration and energy storage of LiNbO <sub>3</sub> doped BNT-BT ceramics. <i>Ceramics International</i> , 2020, 46, 1343-1351.	4.8	47
18	Frequency dependent electrocaloric effect in Nb-doped PZST relaxor thin film with the coexistence of tetragonal antiferroelectric and rhombohedral ferroelectric phases. <i>Ceramics International</i> , 2020, 46, 4300-4306.	4.8	15

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19	Reentrant dipole glass-like behavior and lattice dynamics of $0.65\text{Bi}(\text{Mg}_{1/2}\text{Ti}_{1/2})\text{O}_3 \cdot 0.35\text{PbTiO}_3$ . Journal of the American Ceramic Society, 2020, 103, 2859-2867.	3.8	28
20	Low-temperature-poling awakened high dielectric breakdown strength and outstanding improvement of discharge energy density of $(\text{Pb},\text{La})(\text{Zr},\text{Sn},\text{Ti})\text{O}_3$ relaxor thin film. Nano Energy, 2020, 77, 105132.	16.0	27
21	Giant energy storage density in lead-free dielectric thin films deposited on Si wafers with an artificial dead-layer. Nano Energy, 2020, 78, 105390.	16.0	46
22	Origin of ultrahigh thermal stability on dielectric permittivity and dipole glass-like behavior of $0.4\text{Ba}0.8\text{Ca}0.2\text{TiO}_3\text{-}0.6\text{Bi}(\text{Mg}0.5\text{Ti}0.5)\text{O}_3$ based ceramics. Materials Research Bulletin, 2020, 130, 110942.	5.2	10
23	Realizing a High $ZT$ of 1.6 in N-Type $\text{Mg}_3\text{Sb}_2$ -Based Zintl Compounds through Mn and Se Codoping. ACS Applied Materials & Interfaces, 2020, 12, 21799-21807.	8.0	26
24	Synthesis, Characterization, and Applications of Polymer Nanocomposites. Journal of Nanomaterials, 2020, 2020, 1-2.	2.7	9
25	Effect of Lu doping on the structure, electrical properties and energy storage performance of $\text{AgNbO}_3$ antiferroelectric ceramics. Journal of Materials Science: Materials in Electronics, 2020, 31, 7731-7741.	2.2	18
26	Phase evolution and relaxor behavior of $\text{BiScO}_3 \cdot \text{PbTiO}_3 \cdot 0.05\text{Pb}(\text{Yb}_{1/2}\text{Nb}_{1/2})\text{O}_3$ ternary ceramics. Journal of Materials Science, 2019, 54, 13467-13478.	3.7	13
27	Dielectric and Energy Storage Properties of $\text{Ba}(1-x)\text{Ca}x\text{Zr}y\text{Ti}(1-y)\text{O}_3$ (BCZT): A Review. Materials, 2019, 12, 3641.	2.9	52
28	Ultrahigh energy-storage density in A/B-site co-doped $\text{AgNbO}_3$ lead-free antiferroelectric ceramics: insight into the origin of antiferroelectricity. Journal of Materials Chemistry A, 2019, 7, 26293-26301.	10.3	136
29	Phase-transition induced giant negative electrocaloric effect in a lead-free relaxor ferroelectric thin film. Energy and Environmental Science, 2019, 12, 1708-1717.	30.8	93
30	High-performance La-doped BCZT thin film capacitors on $\text{LaNiO}_3/\text{Pt}$ composite bottom electrodes with ultra-high efficiency and high thermal stability. Ceramics International, 2019, 45, 11749-11755.	4.8	20
31	Enhanced energy storage performance of $(1-x)(\text{BCT-BMT})\text{-}x\text{BFO}$ lead-free relaxor ferroelectric ceramics in a broad temperature range. Journal of Alloys and Compounds, 2019, 789, 303-312.	5.5	34
32	Design for high energy storage density and temperature-insensitive lead-free antiferroelectric ceramics. Journal of Materials Chemistry C, 2019, 7, 4999-5008.	5.5	160
33	Tailoring the electrocaloric effect of $\text{Pb}_{0.78}\text{Ba}_{0.2}\text{La}_{0.02}\text{ZrO}_3$ relaxor thin film by GaN substrates. Journal of Materials Chemistry C, 2019, 7, 14109-14115.	5.5	20
34	Ultrahigh piezoelectric coefficient of a lead-free $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ -based single crystal fabricated by a simple seed-free solid-state growth method. Journal of Materials Chemistry C, 2019, 7, 14845-14854.	5.5	46
35	Phase evolution and thermal stability of high Curie temperature $\text{BiScO}_3\text{-PbTiO}_3\text{-Pb}(\text{Cd}_{1/3}\text{Nb}_{2/3})\text{O}_3$ ceramics near MPB. Journal of Applied Physics, 2019, 126, .	2.5	17
36	Lead-free $\text{Ag}_{1-x}\text{La}_x\text{NbO}_3$ antiferroelectric ceramics with high energy storage density and efficiency. Journal of the American Ceramic Society, 2019, 102, 4640-4647.	3.8	108

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37	Structure and energy storage performance of Ba-modified AgNbO <sub>3</sub> lead-free antiferroelectric ceramics. <i>Ceramics International</i> , 2019, 45, 5559-5565.	4.8	90
38	Thermal strain induced large electrocaloric effect of relaxor thin film on LaNiO <sub>3</sub> /Pt composite electrode with the coexistence of nanoscale antiferroelectric and ferroelectric phases in a broad temperature range. <i>Nano Energy</i> , 2018, 47, 285-293.	16.0	78
39	Revisiting the temperature-dependent dielectric permittivity of Ba(Ti <sub>1-x</sub> Zr <sub>x</sub> )O <sub>3</sub> . <i>Journal of the American Ceramic Society</i> , 2018, 101, 2408-2416.	3.8	44
40	Electrocaloric effect in La-doped BNT-6BT relaxor ferroelectric ceramics. <i>Ceramics International</i> , 2018, 44, 343-350.	4.8	70
41	Enhanced temperature-stable dielectric properties in oxygen annealed 0.85(K <sub>0.5</sub> Na <sub>0.5</sub> )NbO <sub>3</sub> -0.15SrZrO <sub>3</sub> ceramic. <i>Materials Research Bulletin</i> , 2018, 99, 403-408.	5.2	22
42	Facile Synthesis of Ultrahigh-Surface-Area Hollow Carbon Nanospheres and their Application in Lithium-Sulfur Batteries. <i>Chemistry - A European Journal</i> , 2018, 24, 1988-1997.	3.3	27
43	Dielectric Properties of (Bi <sub>0.5</sub> K <sub>0.5</sub> )ZrO <sub>3</sub> Modified (K <sub>0.5</sub> Na <sub>0.5</sub> )NbO <sub>3</sub> Ceramics as High-Temperature Ceramic Capacitors. <i>Journal of Electronic Materials</i> , 2018, 47, 7106-7113.	2.2	12
44	Understanding Phonon Scattering by Nanoprecipitates in Potassium-Doped Lead Chalcogenides. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 3686-3693.	8.0	6
45	High-temperature dielectric and relaxation behavior of Yb-doped Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> ceramics. <i>Ceramics International</i> , 2017, 43, 5564-5573.	4.8	76
46	Ni-doped SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> Perovskite oxides with reduced band gap and stable ferroelectricity for photovoltaic applications. <i>Journal of Alloys and Compounds</i> , 2017, 724, 1093-1100.	5.5	25
47	Fatigue mechanism verified using photovoltaic properties of Pb(Zr <sub>0.52</sub> Ti <sub>0.48</sub> )O <sub>3</sub> thin films. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	17
48	Evolution of phase structure and enhancement of piezoelectric properties in (K <sub>0.5</sub> Na <sub>0.5</sub> ) <sub>0.94</sub> Li <sub>0.06</sub> NbO <sub>3</sub> -SrZrO <sub>3</sub> lead-free ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 3581-3584.	2.2	4
49	Dielectric response mechanism and suppressing high-frequency dielectric loss in Y <sub>2</sub> O <sub>3</sub> grafted CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 17378-17387.	2.2	30
50	Modulated single band red upconversion luminescence from Ho <sup>3+</sup> doped nanoparticles with two-wavelength excitation. <i>Journal of Alloys and Compounds</i> , 2017, 727, 1083-1088.	5.5	16
51	Integration of c-axis oriented Bi <sub>3.15</sub> Nd <sub>0.85</sub> Ti <sub>2.95</sub> Hf <sub>0.05</sub> O <sub>12</sub> /La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> ferromagnetic-ferroelectric composite film on Si substrate. <i>Scientific Reports</i> , 2017, 7, 11341.	3.3	13
52	Thermal evolution of polar nanoregions identified by the relaxation time of electric modulus in the Bi <sub>1/2</sub> Na <sub>1/2</sub> TiO <sub>3</sub> system. <i>Europhysics Letters</i> , 2017, 118, 47001.	2.0	54
53	Large nonlinear dielectric behavior in BaTi <sub>1-x</sub> Sr <sub>x</sub> O <sub>3</sub> . <i>Scientific Reports</i> , 2017, 7, 6693.	3.3	24
54	Dielectric and conductivity behavior of Mn-doped K <sub>0.5</sub> Na <sub>0.5</sub> NbO <sub>3</sub> single crystal. <i>Solid State Communications</i> , 2017, 264, 1-5.	1.9	26

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55	Large electrocaloric efficiency over a broad temperature span in lead-free BaTiO <sub>3</sub> -based ceramics near room temperature. Applied Physics Letters, 2017, 111, .	3.3	27
56	A giant negative electrocaloric effect in Eu-doped PbZrO <sub>3</sub> thin films. Journal of Materials Chemistry C, 2016, 4, 3375-3378.	5.5	62
57	Grain boundary defect compensation in Ti-doped BaFe <sub>0.5</sub> Nb <sub>0.5</sub> O <sub>3</sub> ceramics. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	41
58	Estimate bond angle dependence of superconducting transition temperature in NaFeAs with the first principle methods. Solid State Communications, 2016, 246, 12-16.	1.9	1
59	Dielectric properties and defect mechanisms of (1-x)Ba(Fe <sub>0.5</sub> Nb <sub>0.5</sub> )O <sub>3</sub> -xBiYbO <sub>3</sub> ceramics. Journal of Electroceramics, 2016, 37, 137-144.	2.0	17
60	Temperature-dependent reversible and irreversible processes in Nb-doped PbZrO <sub>3</sub> relaxor ferroelectric thin films. Applied Physics Letters, 2015, 107, .	3.3	8
61	Large Energy Storage Density and High Thermal Stability in a Highly Textured (111)-Oriented Pb <sub>0.8</sub> Ba <sub>0.2</sub> ZrO <sub>3</sub> Relaxor Thin Film with the Coexistence of Antiferroelectric and Ferroelectric Phases. ACS Applied Materials & Interfaces, 2015, 7, 13512-13517.	8.0	185
62	High dielectric tunability, electrostriction strain and electrocaloric strength at a tricritical point of tetragonal, rhombohedral and pseudocubic phases. Journal of Alloys and Compounds, 2015, 646, 597-602.	5.5	23
63	Large electrocaloric strength in the (100)-oriented relaxor ferroelectric Pb[(Ni <sub>1/3</sub> Nb <sub>2/3</sub> ) <sub>0.6</sub> Ti <sub>0.4</sub> ]O <sub>3</sub> single crystal at near morphotropic phase boundary. Ceramics International, 2015, 41, 9344-9349.	4.8	23
64	Giant Electric Energy Density in Epitaxial Lead-Free Thin Films with Coexistence of Ferroelectrics and Antiferroelectrics. Advanced Electronic Materials, 2015, 1, 1500052.	5.1	195
65	Structure evolution and enhanced piezoelectric properties of (K <sub>0.5</sub> Na <sub>0.5</sub> )NbO <sub>3</sub> -0.06LiTaO <sub>3</sub> -SrZrO <sub>3</sub> lead-free ceramics. Journal of Alloys and Compounds, 2015, 653, 523-527.	5.5	18
66	Microstructure and electrical properties of (Ba <sub>0.85</sub> Ca <sub>0.15</sub> )(Zr <sub>0.10</sub> Ti <sub>0.90</sub> )O <sub>3</sub> lead-free piezoelectric ceramics prepared by spark plasma sintering. Journal of Materials Science: Materials in Electronics, 2015, 26, 9649-9653.	2.2	9
67	Enhancement of optical transparency in Bi <sub>2</sub> O <sub>3</sub> -modified (K <sub>0.5</sub> Na <sub>0.5</sub> ) <sub>0.9</sub> Sr <sub>0.1</sub> Nb <sub>0.9</sub> Ti <sub>0.1</sub> O <sub>3</sub> ceramics for electro-optic applications. Journal of Materials Science, 2015, 50, 7958-7966.	3.7	24
68	Preparation and Field-Induced Electrical Properties of Perovskite Relaxor Ferroelectrics. Transactions on Electrical and Electronic Materials, 2015, 16, 1-4.	1.9	2
69	Electrical properties and high figure-of-merit of dielectric tunable (1-x)Ba(Zr <sub>0.25</sub> Ti <sub>0.75</sub> )O <sub>3</sub> -xMgO thick films prepared by tape-casting. Journal of Alloys and Compounds, 2014, 590, 215-220.	5.5	14
70	Dielectric properties and electrical conduction of La <sub>2</sub> O <sub>3</sub> -doped (Bi <sub>0.5</sub> Na <sub>0.5</sub> ) <sub>0.94</sub> Ba <sub>0.06</sub> TiO <sub>3</sub> ceramics. Applied Physics A: Materials Science and Processing, 2014, 114, 551-558.	2.3	31
71	Grain growth, densification and electrical properties of lead-free piezoelectric ceramics from nanocrystalline (Ba <sub>0.85</sub> Ca <sub>0.15</sub> )(Ti <sub>0.90</sub> Zr <sub>0.10</sub> )O <sub>3</sub> powder by sol-gel technique. Journal of Materials Science: Materials in Electronics, 2014, 25, 2220-2226.	2.2	11
72	Dielectric tunability properties of the Pb[(Mg <sub>1/3</sub> Nb <sub>2/3</sub> ) <sub>1-x</sub> Zr] <sub>x</sub> O <sub>3</sub> ceramics. Journal of Alloys and Compounds, 2013, 549, 283-287.	5.5	16

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73	A Giant Electrocaloric Effect in Nanoscale Antiferroelectric and Ferroelectric Phases Coexisting in a Relaxor $\text{Pb}_{0.8}\text{Ba}_{0.2}\text{ZrO}_3$ Thin Film at Room Temperature. <i>Advanced Functional Materials</i> , 2013, 23, 2987-2992.	14.9	313
74	Microstructure, dielectric and pyroelectric properties of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramics fabricated by tape-casting method. <i>Materials Research Bulletin</i> , 2013, 48, 3278-3283.	5.2	17
75	Electrical charge conductivity behavior of electrodeposited $\text{Cu}_2\text{O}/\text{ZnO}$ heterojunction thin films on PET flexible substrates by impedance spectroscopy analysis. <i>Journal of Materials Science</i> , 2013, 48, 3334-3340.	3.7	14
76	High Tunability in (111)-Oriented Relaxor $\text{Pb}_{0.8}\text{Ba}_{0.2}\text{ZrO}_3$ Thin Film with Antiferroelectric and Ferroelectric Two-Phase Coexistence. <i>Journal of the American Ceramic Society</i> , 2013, 96, 1852-1856.	3.8	33
77	Dielectric properties investigation of $\text{Cu}_2\text{O}/\text{ZnO}$ heterojunction thin films by electrodeposition. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 496-501.	3.5	9
78	Dielectric properties and relaxation behavior of the indium doped cadmium zinc telluride single crystal. <i>Journal of Applied Physics</i> , 2012, 111, 084111.	2.5	6
79	The Contribution of the "Extrinsic" Polarizations to the Dielectric Tunability of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})_{0.8}\text{Sc}_{0.2}$ Relaxor Ferroelectrics. <i>Journal of the American Ceramic Society</i> , 2012, 95, 1651-1655.	2.9	11
80	High dielectric non-linear properties of the $\text{Pb}[(\text{Mg}_{1/3}\text{Nb}_{2/3})_{0.8}(\text{Sc}_{1/2}\text{Nb}_{1/2})_{0.2}]\text{O}_3$ ceramics. <i>Materials Research Bulletin</i> , 2012, 47, 2051-2055.	5.2	14
81	Effects of Land Application of Municipal Sewage Sludge on Growth, Physiology and Accumulation of Heavy Metals in Wheat (<i>Triticum aestivum</i> L.). <i>Advanced Materials Research</i> , 0, 878, 647-656.	0.3	4