

# Zhonghua Dai

## List of Publications by Year in descending order

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papers

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623734

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643  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effective Strategy to Achieve Excellent Energy Storage Properties in Lead-Free BaTiO <sub>3</sub> -Based Bulk Ceramics. ACS Applied Materials & Interfaces, 2020, 12, 30289-30296.	8.0	191
2	Electrical properties of multiferroic BiFeO <sub>3</sub> ceramics synthesized by spark plasma sintering. Journal Physics D: Applied Physics, 2010, 43, 445403.	2.8	147
3	Enhanced energy storage properties and stability of Sr(Sc <sub>0.5</sub> Nb <sub>0.5</sub> )O <sub>3</sub> modified 0.65BaTiO <sub>3</sub> -0.35Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> ceramics. Chemical Engineering Journal, 2020, 397, 125520.	12.7	106
4	A strategy for high performance of energy storage and transparency in KNN-based ferroelectric ceramics. Chemical Engineering Journal, 2022, 427, 131959.	12.7	100
5	Improved energy storage density and efficiency of (1-x)Ba <sub>0.85</sub> Ca <sub>0.15</sub> Zr <sub>0.1</sub> Ti <sub>0.9</sub> O <sub>3</sub> -xBiMg <sub>2/3</sub> Nb <sub>1/3</sub> O <sub>3</sub> lead-free ceramics. Chemical Engineering Journal, 2021, 410, 128341.	12.7	82
6	Understanding the mechanism of thermal-stable high-performance piezoelectricity. Acta Materialia, 2019, 169, 155-161.	7.9	49
7	Semiconductor flexoelectricity in graphite-doped SrTiO <sub>3</sub> ceramics. Ceramics International, 2021, 47, 6535-6539.	4.8	48
8	Electrical properties of zirconium-modified BiScO <sub>3</sub> -PbTiO <sub>3</sub> piezoelectric ceramics at re-designed phase boundary. Materials Letters, 2018, 215, 46-49.	2.6	26
9	Enhanced energy storage properties of Sr(Sc <sub>0.5</sub> Nb <sub>0.5</sub> )O <sub>3</sub> modified (Bi <sub>0.47</sub> La <sub>0.03</sub> Na <sub>0.5</sub> ) <sub>0.94</sub> Ba <sub>0.06</sub> TiO <sub>3</sub> lead-free ceramics. Journal of Materials Science, 2020, 55, 13578-13589.	3.7	26
10	High piezoelectricity of BiScO <sub>3</sub> -PbTiO <sub>3</sub> ceramics prepared by two step sintering. Materials Letters, 2019, 241, 55-59.	2.6	23
11	A Bi <sub>1/2</sub> K <sub>1/2</sub> TiO <sub>3</sub> -based ergodic relaxor ceramic for temperature-stable energy storage applications. Materials and Design, 2021, 207, 109887.	7.0	19
12	Structural, dielectric and magnetic properties of Mn modified xBiFeO <sub>3</sub> -(1-x)BaTiO <sub>3</sub> ceramics. Journal of Magnetism and Magnetic Materials, 2017, 434, 10-13.	2.3	16
13	Dielectric properties and heating effect of multiferroic BiFeO <sub>3</sub> suspension. Materials Letters, 2011, 65, 2036-2038.	2.6	15
14	Improvement of dielectric and energy storage properties in Sr <sub>0.85</sub> Bi <sub>0.1</sub> ZrO <sub>3</sub> modified (Bi <sub>0.5</sub> Na <sub>0.5</sub> ) <sub>0.7</sub> Sr <sub>0.3</sub> TiO <sub>3</sub> lead-free ceramics. Journal of Alloys and Compounds, 2022, 908, 164577.	5.5	14
15	Enhanced energy storage properties of Sr(Ti <sub>0.5</sub> Zr <sub>0.5</sub> ) <sub>1-x</sub> ETQq <sub>1</sub> 1 0.784314 rgBT /Overloc 11492-11500.	4.5	10
16	Significantly enhanced energy density and breakdown strength of polymer nanocomposites using highly textured [111]c BaTiO <sub>3</sub> platelets. Journal of Alloys and Compounds, 2021, 887, 161324.	5.5	7
17	Phase diagram determination of large piezoelectric response in BHT-BCT ceramics. Functional Materials Letters, 2019, 12, 1950070.	1.2	5
18	Simultaneous high transmittance and large tunability of up-conversion photoluminescence in Er <sup>3+</sup> doped KNN-based ceramics. Ceramics International, 2022, 48, 19688-19693.	4.8	5

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19	Frequency dispersion and temperature dependence of electrical behaviours in 0.4Bi(Ni <sub>1/2</sub> Zr <sub>1/2</sub> )O <sub>3</sub> -0.6PbTiO <sub>3</sub> . <i>Ceramics International</i> , 2020, 46, 15297-15304.	4.8	4
20	Influence of excessive Pb and sintering temperature on the structure and properties of 0.39BS-0.61PT ceramics. <i>Ceramics International</i> , 2021, 47, 29328-29334.	4.8	4