Bing Xie

List of Publications by Year
in descending order

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		257450	276875
41	2,204	24	41
papers	citations	h-index	g-index

41	41	41	1520
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High energy-storage performance of lead-free Ba0.4Sr0.6TiO3â€“Sr0.7Bi0.2TiO3 relaxor-ferroelectric ceramics with ultrafine grain size. Ceramics International, 2022, 48, 2068-2074.	4.8	14
2	Multilayer-structured nanocomposite films with enhanced energy storage performance under intermediate electric fields via incorporation of BaTiO3/CaCu3Ti4O12@SiO2 nanofillers. Chemical Engineering Journal, 2022, 431, 134320.	12.7	11
3	High energy density of ferroelectric polymer nanocomposites utilizing PZT@SiO2 nanocubes with morphotropic phase boundary. Chemical Engineering Journal, 2022, 434, 134659.	12.7	23
4	High energy storage efficiency of NBT-SBT lead-free ferroelectric ceramics. Ceramics International, 2022, 48, 23266-23272.	4.8	10
5	Improved energy storage performance of Ba0.4Sr0.6TiO3 by doping high polarization BiFeO3. Ceramics International, 2021, 47, 14647-14654.	4.8	18
6	High Energy Storage Performance of PMMA Nanocomposites Utilizing Hierarchically Structured Nanowires Based on Interface Engineering. ACS Applied Materials & Interfaces, 2021, 13, 27382-27391.	8.0	59
7	Microstructure and ferroelectric properties of high-entropy perovskite oxides with A-site disorder. Ceramics International, 2021, 47, 33039-33046.	4.8	31
8	Balanced development of dielectric permittivity, loss tangent, and temperature stability in K0.5Na0.5NbO3-based ceramic capacitors. Journal of Alloys and Compounds, 2020, 817, 152798.	5.5	9
9	Mediating the confliction of polarizability and breakdown electric-field strength in BNST relaxor ferroelectric for energy storage applications. Journal of Alloys and Compounds, 2020, 823, 153772.	5.5	36
10	Polymer Matrix Nanocomposites with 1D Ceramic Nanofillers for Energy Storage Capacitor Applications. ACS Applied Materials & Interfaces, 2020, 12, 1-37.	8.0	163
11	Vibration catalysis of eco-friendly Na0.5K0.5NbO3-based piezoelectric: An efficient phase boundary catalyst. Applied Catalysis B: Environmental, 2020, 279, 119353.	20.2	128
12	Sandwich structure-assisted significantly improved discharge energy density in linear polymer nanocomposites with high thermal stability. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 581, 123802.	4.7	38
13	Ultrasonic vibration driven piezocatalytic activity of lead-free K0.5Na0.5NbO3 materials. Ceramics International, 2019, 45, 22486-22492.	4.8	59
14	Enhanced energy-storage performance with excellent stability under low electric fields in BNTâ€“ST relaxor ferroelectric ceramics. Journal of Materials Chemistry C, 2019, 7, 281-288.	5.5	324
15	Low-temperature sintered (Na1/2Bi1/2)TiO3-based incipient piezoceramics for co-fired multilayer actuator application. Journal of Materiomics, 2019, 5, 480-488.	5.7	22
16	(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.	3.8	30
17	Largely enhanced discharge energy density in linear polymer nanocomposites by designing a sandwich structure. Composites Part A: Applied Science and Manufacturing, 2019, 121, 115-122.	7.6	73
18	Large strain under low driving field in leadâ€free relaxor/ferroelectric composite ceramics. Journal of the American Ceramic Society, 2019, 102, 4113-4126.	3.8	39

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19	Improved heat transfer for pyroelectric energy harvesting applications using a thermal conductive network of aluminum nitride in PMNâ€“PMSâ€“PZT ceramics. Journal of Materials Chemistry A, 2018, 6, 5040-5051.	10.3	45
20	Large electric field-induced strain in AgNbO3-modified 0.76Bi0.5Na0.5TiO3-0.24SrTiO3 lead-free piezoceramics. Ceramics International, 2018, 44, 7851-7857.	4.8	66
21	High discharged energy density of polymer nanocomposites containing paraelectric SrTiO3 nanowires for flexible energy storage device. Journal of Alloys and Compounds, 2018, 744, 116-123.	5.5	78
22	High remnant polarization, high dielectric constant and impedance performance of Nb/In Co-doped Bi0.49La0.01Na0.49Li0.01TiO3- ceramics. Ceramics International, 2018, 44, 6843-6850.	4.8	22
23	Large electric-field-induced strain in B-site complex-ion (Fe0.5Nb0.5)4+-doped Bi1/2 (Na0.82K0.12)1/2TiO3 lead-free piezoceramics. Ceramics International, 2018, 44, 3211-3217.	4.8	43
24	Tailoring the energy storage performance of polymer nanocomposites with aspect ratio optimized 1D nanofillers. Journal of Materials Chemistry A, 2018, 6, 20356-20364.	10.3	63
25	High energy storage performance for dielectric film capacitors by designing 1D SrTiO₃@SiO₂ nanofillers. Journal of Advanced Dielectrics, 2018, 08, 1850039.	2.4	24
26	Ultrahigh discharged energy density in polymer nanocomposites by designing linear/ferroelectric bilayer heterostructure. Nano Energy, 2018, 54, 437-446.	16.0	137
27	Large strain with low hysteresis in Bi4Ti3O12 modified Bi1/2(Na0.82K0.18)1/2TiO3 lead-free piezoceramics. Journal of the European Ceramic Society, 2018, 38, 4404-4413.	5.7	61
28	Temperature-insensitive electric-field-induced strain and enhanced piezoelectric properties of <001> textured (K,Na)NbO3-based lead-free piezoceramics. Acta Materialia, 2018, 156, 389-398.	7.9	84
29	High discharged energy density of nanocomposites filled with double-layered core-shell nanoparticles by reducing space charge polarization. Ceramics International, 2018, 44, 19330-19337.	4.8	31
30	Mechanical force-driven growth of elongated BaTiO3 lead-free ferroelectric nanowires. Ceramics International, 2017, 43, 2969-2973.	4.8	15
31	Enhanced energy density of polymer nanocomposites at a low electric field through aligned BaTiO₃ nanowires. Journal of Materials Chemistry A, 2017, 5, 6070-6078.	10.3	175
32	Low temperature in-situ preparation of reduced graphene oxide/ZnO nanocomposites for highly sensitive photodetectors. Journal of Materials Science: Materials in Electronics, 2017, 28, 9403-9409.	2.2	9
33	The effect of Au nanocrystals applied in CdS colloidal quantum dots ultraviolet photodetectors. Journal of Materials Science: Materials in Electronics, 2017, 28, 9782-9787.	2.2	7
34	Enhanced sensitivity and response speed of graphene oxide/ZnO nanorods photodetector fabricated by introducing graphene oxide in seed layer. Journal of Materials Science: Materials in Electronics, 2017, 28, 15891-15898.	2.2	10
35	Geometrical influence of conducting fillers on the dielectric tunable properties of antiferroelectric ceramic/conducting filler/polystyrene composites under low electric field. Journal of Materials Science: Materials in Electronics, 2017, 28, 10184-10190.	2.2	1
36	Largely enhanced ferroelectric and energy storage performances of P(VDF-CTFE) nanocomposites at a lower electric field using BaTiO3 nanowires by stirring hydrothermal method. Ceramics International, 2016, 42, 19012-19018.	4.8	43

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37	Low temperature sintering and microwave dielectric properties of Zr0.3(Zn1/3Nb2/3)0.7TiO4 ceramics doped with CuO-B2O3. Journal of Electroceramics, 2016, 36, 40-45.	2.0	1
38	Preparation and enhanced electric-field-induced strain of textured 91BNTâ€“6BTâ€“3KNN lead-free piezoceramics by TGG method. Journal of Materials Science: Materials in Electronics, 2016, 27, 3076-3081.	2.2	7
39	Constrained sintering and electrical properties of BNTâ€“BKT lead-free piezoceramic thick films. Ceramics International, 2016, 42, 2534-2541.	4.8	9
40	The influence of temperature induced phase transition on the energy storage density of anti-ferroelectric ceramics. Journal of Applied Physics, 2015, 118, .	2.5	18
41	Highâ€Energy Storage Performance of (Pb_{0.87}Ba_{0.1}La_{0.02})(Zr_{0.68}Sn_{0.24}Ti_{0.08})O₃ Antiferroelectric Ceramics Fabricated by the Hotâ€Press Sintering Method. Journal of the American Ceramic Society, 2015, 98, 1175-1181.	3.8	168