

Bing Xie

List of Publications by Year in descending order

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41
papers

2,204
citations

257450

24
h-index

276875

41
g-index

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all docs

41
docs citations

41
times ranked

1520
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced energy-storage performance with excellent stability under low electric fields in BNT δ ST relaxor ferroelectric ceramics. <i>Journal of Materials Chemistry C</i> , 2019, 7, 281-288.	5.5	324
2	Enhanced energy density of polymer nanocomposites at a low electric field through aligned BaTiO ₃ nanowires. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6070-6078.	10.3	175
3	High Energy Storage Performance of (Pb _{0.87} Ba _{0.1} La _{0.02})(Zr _{0.68} Sn _{0.24} Ti _{0.08})O ₃ Antiferroelectric Ceramics Fabricated by the Hot-Press Sintering Method. <i>Journal of the American Ceramic Society</i> , 2015, 98, 1175-1181.	3.8	168
4	Polymer Matrix Nanocomposites with 1D Ceramic Nanofillers for Energy Storage Capacitor Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 1-37.	8.0	163
5	Ultrahigh discharged energy density in polymer nanocomposites by designing linear/ferroelectric bilayer heterostructure. <i>Nano Energy</i> , 2018, 54, 437-446.	16.0	137
6	Vibration catalysis of eco-friendly Na _{0.5} K _{0.5} NbO ₃ -based piezoelectric: An efficient phase boundary catalyst. <i>Applied Catalysis B: Environmental</i> , 2020, 279, 119353.	20.2	128
7	Temperature-insensitive electric-field-induced strain and enhanced piezoelectric properties of textured (K,Na)NbO ₃ -based lead-free piezoceramics. <i>Acta Materialia</i> , 2018, 156, 389-398.	7.9	84
8	High discharged energy density of polymer nanocomposites containing paraelectric SrTiO ₃ nanowires for flexible energy storage device. <i>Journal of Alloys and Compounds</i> , 2018, 744, 116-123.	5.5	78
9	Largely enhanced discharge energy density in linear polymer nanocomposites by designing a sandwich structure. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 121, 115-122.	7.6	73
10	Large electric field-induced strain in AgNbO ₃ -modified 0.76Bi _{0.5} Na _{0.5} TiO ₃ -0.24SrTiO ₃ lead-free piezoceramics. <i>Ceramics International</i> , 2018, 44, 7851-7857.	4.8	66
11	Tailoring the energy storage performance of polymer nanocomposites with aspect ratio optimized 1D nanofillers. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20356-20364.	10.3	63
12	Large strain with low hysteresis in Bi ₄ Ti ₃ O ₁₂ modified Bi _{1/2} (Na _{0.82} K _{0.18}) _{1/2} TiO ₃ lead-free piezoceramics. <i>Journal of the European Ceramic Society</i> , 2018, 38, 4404-4413.	5.7	61
13	Ultrasonic vibration driven piezocatalytic activity of lead-free K _{0.5} Na _{0.5} NbO ₃ materials. <i>Ceramics International</i> , 2019, 45, 22486-22492.	4.8	59
14	High Energy Storage Performance of PMMA Nanocomposites Utilizing Hierarchically Structured Nanowires Based on Interface Engineering. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 27382-27391.	8.0	59
15	Improved heat transfer for pyroelectric energy harvesting applications using a thermal conductive network of aluminum nitride in PMN δ PMS δ PZT ceramics. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5040-5051.	10.3	45
16	Largely enhanced ferroelectric and energy storage performances of P(VDF-CTFE) nanocomposites at a lower electric field using BaTiO ₃ nanowires by stirring hydrothermal method. <i>Ceramics International</i> , 2016, 42, 19012-19018.	4.8	43
17	Large electric-field-induced strain in B-site complex-ion (Fe _{0.5} Nb _{0.5}) ⁴⁺ -doped Bi _{1/2} (Na _{0.82} K _{0.12}) _{1/2} TiO ₃ lead-free piezoceramics. <i>Ceramics International</i> , 2018, 44, 3211-3217.	4.8	43
18	Large strain under low driving field in lead-free relaxor/ferroelectric composite ceramics. <i>Journal of the American Ceramic Society</i> , 2019, 102, 4113-4126.	3.8	39

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19	Sandwich structure-assisted significantly improved discharge energy density in linear polymer nanocomposites with high thermal stability. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 581, 123802.	4.7	38
20	Mediating the conflict of polarizability and breakdown electric-field strength in BNST relaxor ferroelectric for energy storage applications. <i>Journal of Alloys and Compounds</i> , 2020, 823, 153772.	5.5	36
21	High discharged energy density of nanocomposites filled with double-layered core-shell nanoparticles by reducing space charge polarization. <i>Ceramics International</i> , 2018, 44, 19330-19337.	4.8	31
22	Microstructure and ferroelectric properties of high-entropy perovskite oxides with A-site disorder. <i>Ceramics International</i> , 2021, 47, 33039-33046.	4.8	31
23	(Na _{1/2} Bi _{1/2})TiO ₃ -based lead-free co-fired multilayer actuators with large strain and high fatigue resistance. <i>Journal of the American Ceramic Society</i> , 2019, 102, 6147-6155.	3.8	30
24	High energy storage performance for dielectric film capacitors by designing 1D SrTiO ₃ @SiO ₂ nanofillers. <i>Journal of Advanced Dielectrics</i> , 2018, 08, 1850039.	2.4	24
25	High energy density of ferroelectric polymer nanocomposites utilizing PZT@SiO ₂ nanocubes with morphotropic phase boundary. <i>Chemical Engineering Journal</i> , 2022, 434, 134659.	12.7	23
26	High remnant polarization, high dielectric constant and impedance performance of Nb/In Co-doped Bi _{0.49} La _{0.01} Na _{0.49} Li _{0.01} TiO ₃ -ceramics. <i>Ceramics International</i> , 2018, 44, 6843-6850.	4.8	22
27	Low-temperature sintered (Na _{1/2} Bi _{1/2})TiO ₃ -based incipient piezoceramics for co-fired multilayer actuator application. <i>Journal of Materiomics</i> , 2019, 5, 480-488.	5.7	22
28	The influence of temperature induced phase transition on the energy storage density of anti-ferroelectric ceramics. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	18
29	Improved energy storage performance of Ba _{0.4} Sr _{0.6} TiO ₃ by doping high polarization BiFeO ₃ . <i>Ceramics International</i> , 2021, 47, 14647-14654.	4.8	18
30	Mechanical force-driven growth of elongated BaTiO ₃ lead-free ferroelectric nanowires. <i>Ceramics International</i> , 2017, 43, 2969-2973.	4.8	15
31	High energy-storage performance of lead-free Ba _{0.4} Sr _{0.6} TiO ₃ -Sr _{0.7} Bi _{0.2} TiO ₃ relaxor-ferroelectric ceramics with ultrafine grain size. <i>Ceramics International</i> , 2022, 48, 2068-2074.	4.8	14
32	Multilayer-structured nanocomposite films with enhanced energy storage performance under intermediate electric fields via incorporation of BaTiO ₃ /CaCu ₃ Ti ₄ O ₁₂ @SiO ₂ nanofillers. <i>Chemical Engineering Journal</i> , 2022, 431, 134320.	12.7	11
33	Enhanced sensitivity and response speed of graphene oxide/ZnO nanorods photodetector fabricated by introducing graphene oxide in seed layer. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 15891-15898.	2.2	10
34	High energy storage efficiency of NBT-SBT lead-free ferroelectric ceramics. <i>Ceramics International</i> , 2022, 48, 23266-23272.	4.8	10
35	Constrained sintering and electrical properties of BNT-BKT lead-free piezoceramic thick films. <i>Ceramics International</i> , 2016, 42, 2534-2541.	4.8	9
36	Low temperature in-situ preparation of reduced graphene oxide/ZnO nanocomposites for highly sensitive photodetectors. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 9403-9409.	2.2	9

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37	Balanced development of dielectric permittivity, loss tangent, and temperature stability in $K_{0.5}Na_{0.5}NbO_3$ -based ceramic capacitors. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152798.	5.5	9
38	Preparation and enhanced electric-field-induced strain of textured $91BNT\hat{=}6BT\hat{=}3KNN$ lead-free piezoceramics by TGG method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 3076-3081.	2.2	7
39	The effect of Au nanocrystals applied in CdS colloidal quantum dots ultraviolet photodetectors. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 9782-9787.	2.2	7
40	Low temperature sintering and microwave dielectric properties of $Zr_{0.3}(Zn_{1/3}Nb_{2/3})_{0.7}TiO_4$ ceramics doped with $CuO-B_2O_3$. <i>Journal of Electroceramics</i> , 2016, 36, 40-45.	2.0	1
41	Geometrical influence of conducting fillers on the dielectric tunable properties of antiferroelectric ceramic/conducting filler/polystyrene composites under low electric field. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 10184-10190.	2.2	1