

Hongliang Du

List of Publications by Year in descending order

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55
papers

4,306
citations

201674

27
h-index

189892

50
g-index

55
all docs

55
docs citations

55
times ranked

1271
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Grain size engineered lead-free ceramics with both large energy storage density and ultrahigh mechanical properties. <i>Nano Energy</i> , 2019, 58, 768-777.	16.0	457
3	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
4	Achieve ultrahigh energy storage performance in BaTiO ₃ –Bi(Mg _{1/2} Ti _{1/2})O ₃ relaxor ferroelectric ceramics via nano-scale polarization mismatch and reconstruction. <i>Nano Energy</i> , 2020, 67, 104264.	16.0	320
5	Lead-free relaxor ferroelectric ceramics with high optical transparency and energy storage ability. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1795-1803.	5.5	279
6	High-performance lead-free bulk ceramics for electrical energy storage applications: design strategies and challenges. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18026-18085.	10.3	277
7	Realizing high comprehensive energy storage performance in lead-free bulk ceramics via designing an unmatched temperature range. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27256-27266.	10.3	223
8	A new strategy to realize high comprehensive energy storage properties in lead-free bulk ceramics. <i>Journal of Materials Chemistry C</i> , 2019, 7, 7993-8002.	5.5	181
9	Bi _{0.5} Na _{0.5} TiO ₃ -based relaxor ferroelectric ceramic with large energy density and high efficiency under a moderate electric field. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10514-10520.	5.5	155
10	Significant increase in comprehensive energy storage performance of potassium sodium niobate-based ceramics via synergistic optimization strategy. <i>Energy Storage Materials</i> , 2022, 45, 861-868.	18.0	145
11	A new family of sodium niobate-based dielectrics for electrical energy storage applications. <i>Journal of the European Ceramic Society</i> , 2019, 39, 2899-2907.	5.7	144
12	Regulation of energy density and efficiency in transparent ceramics by grain refinement. <i>Chemical Engineering Journal</i> , 2020, 390, 124566.	12.7	140
13	Enhanced dielectric breakdown strength and energy storage density in lead-free relaxor ferroelectric ceramics prepared using transition liquid phase sintering. <i>RSC Advances</i> , 2016, 6, 34381-34389.	3.6	136
14	Large recoverable energy storage density and low sintering temperature in potassium–sodium niobate-based ceramics for multilayer pulsed power capacitors. <i>Journal of the American Ceramic Society</i> , 2017, 100, 1517-1526.	3.8	133
15	High electric field-induced strain with ultra-low hysteresis and giant electrostrictive coefficient in barium strontium titanate lead-free ferroelectrics. <i>Journal of the European Ceramic Society</i> , 2019, 39, 295-304.	5.7	80
16	Textured ferroelectric ceramics with high electromechanical coupling factors over a broad temperature range. <i>Nature Communications</i> , 2021, 12, 1414.	12.8	71
17	Ultrahigh storage density achieved with (1-x)KNN-xBZN ceramics. <i>Journal of the European Ceramic Society</i> , 2020, 40, 2936-2944.	5.7	57
18	High thermal stability of electric field-induced strain in (1-x)(Bi _{0.5} Na _{0.5})TiO ₃ -xBa _{0.85} Ca _{0.15} Ti _{0.9} Zr _{0.1} O ₃ lead-free ferroelectrics. <i>Journal of the European Ceramic Society</i> , 2019, 39, 277-286.	5.7	56

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19	Significantly enhanced room temperature electrocaloric response with superior thermal stability in sodium niobate-based bulk ceramics. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11665-11672.	10.3	50
20	A strategy for obtaining high electrostrictive properties and its application in barium stannate titanate lead-free ferroelectrics. <i>Ceramics International</i> , 2018, 44, 21816-21824.	4.8	45
21	Effective strategy to improve energy storage properties in lead-free (Ba _{0.8} Sr _{0.2})TiO ₃ -Bi(Mg _{0.5} Zr _{0.5})O ₃ relaxor ferroelectric ceramics. <i>Chemical Engineering Journal</i> , 2022, 446, 137389.	12.7	40
22	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
23	High electrostrictive effect in La ³⁺ -doped Ba(Zr _{0.2} Ti _{0.8})O ₃ lead-free ferroelectrics. <i>Journal of Alloys and Compounds</i> , 2019, 776, 599-605.	5.5	35
24	Thermal stability of dielectric and energy storage performances of Ca-substituted BNTZ ferroelectric ceramics. <i>Ceramics International</i> , 2021, 47, 6298-6309.	4.8	33
25	Achieving ultrahigh energy storage performance over a broad temperature range in (Bi _{0.5} Na _{0.5})TiO ₃ -based eco-friendly relaxor ferroelectric ceramics via multiple engineering processes. <i>Journal of Alloys and Compounds</i> , 2022, 896, 163139.	5.5	33
26	Thermally stable electrostrains and composition-dependent electrostrictive coefficient Q ₃₃ in lead-free ferroelectric ceramics. <i>Ceramics International</i> , 2019, 45, 22854-22861.	4.8	29
27	A band enhanced metamaterial absorber based on E-shaped all-dielectric resonators. <i>AIP Advances</i> , 2015, 5, .	1.3	27
28	High dielectric permittivity and electrostrictive strain in a wide temperature range in relaxor ferroelectric (1-x)[Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃]-xBa(Zn _{1/3} Nb _{2/3})O ₃ solid solutions. <i>Ceramics International</i> , 2019, 45, 5518-5524.	4.8	24
29	Reconfigurable all-dielectric metamaterial frequency selective surface based on high-permittivity ceramics. <i>Scientific Reports</i> , 2016, 6, 24178.	3.3	23
30	Extremely High Piezoelectric Properties in Pb-Based Ceramics through Integrating Phase Boundary and Defect Engineering. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38517-38525.	8.0	23
31	Ultrahigh room temperature electrocaloric response in lead-free bulk ceramics via tape casting. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6860-6866.	5.5	22
32	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
33	Phase transition behavior and high electrostrictive strains in Bi(Li _{0.5} Nb _{0.5})O ₃ -doped lead magnesium niobate-based solid solutions. <i>Journal of Alloys and Compounds</i> , 2019, 806, 206-214.	5.5	14
34	Bi(Mg _{0.5} Ti _{0.5})O ₃ -doped NaNbO ₃ ferroelectric ceramics: Linear regulation of Curie temperature and ultra-high thermally stable dielectric response. <i>Ceramics International</i> , 2019, 45, 21175-21182.	4.8	14
35	Structure, dielectric, electrostrictive and electrocaloric properties of environmentally friendly Bi-substituted BCZT ferroelectric ceramics. <i>Ceramics International</i> , 2021, 47, 34676-34686.	4.8	13
36	Large electrostrain and high energy-storage properties of (Sr _{1/3} Nb _{2/3}) ⁴⁺ -substituted (Bi _{0.5} Na _{0.5})TiO ₃ -0.07BaTiO ₃ lead-free ceramics. <i>Ceramics International</i> , 2022, 48, 23975-23982.	4.8	13

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37	Nonstoichiometric effect of A-site complex ions on structural, dielectric, ferroelectric, and electrostrain properties of bismuth sodium titanate ceramics. <i>Ceramics International</i> , 2021, 47, 32747-32755.	4.8	12
38	Large-Area Piezoelectric Single Crystal Composites via 3-D-Printing-Assisted Dice-and-Insert Technology for Hydrophone Applications. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 3241-3248.	3.0	12
39	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
40	All-dielectric metamaterial frequency selective surface. <i>Journal of Advanced Dielectrics</i> , 2017, 07, 1730002.	2.4	11
41	Intergrowth Bismuth Layer-Structured Na _{0.5} Bi _{2.5} Nb ₂ O ₉ –Bi ₄ Ti ₃ O ₁₂ High Temperature Ferroelectrics Ceramics. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2014, 24, 355-359.	3.7	8
42	Ultra-slim electrostrains with superior temperature-stability in lead-free sodium niobate-based ferroelectric perovskite. <i>Journal of Materiomics</i> , 2022, 8, 1230-1238.	5.7	6
43	All-dielectric metamaterial frequency selective surface based on spatial arrangement ceramic resonators. <i>Journal of Advanced Dielectrics</i> , 2017, 07, 1750009.	2.4	4
44	High comprehensive electrocaloric performance in barium titanate-based ceramics via integrating diffuse phase transition near room temperature and a high applied electric field. <i>Ceramics International</i> , 2022, 48, 6842-6849.	4.8	4
45	Na/K RATIOS DEPENDENCE OF PIEZOELECTRIC AND FERROELECTRIC PROPERTIES IN (K _{1-x} Na _x)NbO ₃ LEAD-FREE CERAMICS. <i>Journal of Advanced Dielectrics</i> , 2011, 01, 471-478.	2.4	3
46	Polarization insensitive metamaterial absorber based on E-shaped all-dielectric structure. <i>Journal of Advanced Dielectrics</i> , 2015, 05, 1550009.	2.4	2
47	Methods for designing all-dielectric frequency selective surface via dielectric materials. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1700168.	1.8	2
48	Formation mechanism of barium titanate single crystalline microplates based on topochemical transformation using bismuth-based precursors. <i>Ceramics International</i> , 2021, 47, 4543-4550.	4.8	2
49	A transmit/reflect switchable frequency selective surface based on all dielectric metamaterials. <i>Journal of Advanced Dielectrics</i> , 2015, 05, 1550035.	2.4	1
50	All-dielectric Frequency Selective Surface Based on 3D Printing Materials. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700840.	1.8	1
51	Tunable planar left-handed metamaterials based on split-ring resonator pairs. , 2015, , .		0
52	The thickness resonance of the bandpass frequency selective surface using high-permittivity dielectric materials. , 2016, , .		0
53	Toward Abnormal Reflection by Ceramic Based All-Radiant Gradient Metasurface. , 2018, , .		0
54	All-Dielectric Frequency Selective Surface Based on 3D Printing Materials (Phys. Status Solidi A) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	1.8	0

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55	Frequency selective polarization conversion metasurface using E-shaped high permittivity ceramics. , 2018, , .		0