

Fangyuan Zhu

List of Publications by Year in descending order

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27
papers

1,943
citations

471509

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2259
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen vacancy migration and its lattice structural origin in A-site non-stoichiometric bismuth sodium titanate perovskites. <i>Journal of Materiomics</i> , 2022, 8, 719-729.	5.7	36
2	Deferred Polarization Saturation Boosting Superior Energy-Storage Efficiency and Density Simultaneously under Moderate Electric Field in Relaxor Ferroelectrics. <i>ACS Applied Energy Materials</i> , 2022, 5, 3436-3446.	5.1	36
3	Fast control of the polarity of the magnetic vortex for a pair of magnetic nanodots. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 529, 167841.	2.3	3
4	Proton-Dominated Reversible Aqueous Zinc Batteries with an Ultraflat Long Discharge Plateau. <i>ACS Nano</i> , 2021, 15, 14766-14775.	14.6	38
5	Independent Control of the Chirality and Polarity for the Magnetic Vortex in Symmetric Nanodot Pairs. <i>IEEE Transactions on Magnetics</i> , 2020, 56, 1-6.	2.1	3
6	Enhanced energy storage density and discharge efficiency in potassium sodium niobite-based ceramics prepared using a new scheme. <i>Journal of the European Ceramic Society</i> , 2020, 40, 2357-2365.	5.7	41
7	Realizing High-Ranged Out-of-Plane ZTs in n-Type SnSe Crystals through Promoting Continuous Phase Transition. <i>Advanced Energy Materials</i> , 2019, 9, 1901334.	19.5	83
8	Structure-property relationships in the lead-free piezoceramic system $K_{0.5}Bi_{0.5}TiO_3 - BiMg_{0.5}Ti_{0.5}O_3$. <i>Acta Materialia</i> , 2019, 168, 100-108.	7.9	12
9	Ultrahigh Piezoelectric Properties in Textured $(K,Na)NbO_3$ -Based Lead-Free Ceramics. <i>Advanced Materials</i> , 2018, 30, 1705171.	21.0	361
10	The control of magnetic vortex state in rectangular nanomagnet. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 451, 379-384.	2.3	7
11	3D charge and 2D phonon transports leading to high out-of-plane zT in n-type SnSe crystals. <i>Science</i> , 2018, 360, 778-783.	12.6	859
12	Ultrahigh energy density and improved discharged efficiency in bismuth sodium titanate based relaxor ferroelectrics with A-site vacancy. <i>Journal of Materiomics</i> , 2018, 4, 202-207.	5.7	86
13	Fabrication of high aspect ratio nanoscale periodic structures by the soft X-ray interference lithography. <i>Microelectronic Engineering</i> , 2017, 170, 49-53.	2.4	14
14	High Q_m values and humidity effect on the electrical properties of $(K, Na)NbO_3$ based relaxor ferroelectrics. <i>Journal of the American Ceramic Society</i> , 2017, 100, 1561-1569.	3.8	19
15	Independent control of the vortex chirality and polarity in a pair of magnetic nanodots. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 435, 167-172.	2.3	10
16	Domain Evolution and Piezoelectric Response across Thermotropic Phase Boundary in $(K,Na)NbO_3$ -Based Epitaxial Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13315-13322.	8.0	50
17	Piezoelectrics: Monoclinic $(K,Na)NbO_3$ Ferroelectric Phase in Epitaxial Films (Adv.) <i>Tj ETQq1 1 0.784314,rgBT /Overlock 10 Tf 50 227 Td</i>	5.1	1
18	Monte Carlo simulation on a new artificial spin ice lattice consisting of hexagons and three-moment vertices. <i>AIP Advances</i> , 2017, 7, .	1.3	3

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19	Monoclinic (K,Na)NbO ₃ Ferroelectric Phase in Epitaxial Films. <i>Advanced Electronic Materials</i> , 2017, 3, 1700226.	5.1	20
20	Development of broadband X-ray interference lithography large area exposure system. <i>Review of Scientific Instruments</i> , 2016, 87, 043303.	1.3	9
21	Core-shell grain structures and ferroelectric properties of Na _{0.5} K _{0.5} NbO ₃ -LiTaO ₃ -BiScO ₃ piezoelectric ceramics. <i>Data in Brief</i> , 2015, 4, 34-39.	1.0	10
22	Nanodomain Engineered (K, Na)NbO ₃ Lead-Free Piezoceramics: Enhanced Thermal and Cycling Reliabilities. <i>Journal of the American Ceramic Society</i> , 2015, 98, 448-454.	3.8	57
23	Core-shell grain structures and dielectric properties of Na _{0.5} K _{0.5} NbO ₃ -LiTaO ₃ -BiScO ₃ piezoelectric ceramics. <i>Acta Materialia</i> , 2015, 90, 204-212.	7.9	28
24	Composition Inhomogeneity due to Alkaline Volatilization in Li-Modified (K, Na)NbO ₃ Lead-Free Piezoceramics. <i>Journal of the American Ceramic Society</i> , 2013, 96, 2693-2695.	3.8	56
25	Dielectric and piezoelectric properties in the lead-free system Na _{0.5} K _{0.5} NbO ₃ -BiScO ₃ -LiTaO ₃ . <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 1811-1818.	2.4	24
26	Phase diagram and structure-property relationships in the lead-free piezoelectric system: Na _{0.5} K _{0.5} NbO ₃ -LiTaO ₃ . <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 1819-1825.	3.0	26
27	Diffuse dielectric behaviour in Na _{0.5} K _{0.5} NbO ₃ -LiTaO ₃ -BiScO ₃ lead-free ceramics. <i>Materials Chemistry and Physics</i> , 2011, 129, 411-417.	4.0	51