

Fangyuan Zhu

List of Publications by Year in descending order

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27
papers

1,943
citations

471509

17
h-index

526287

27
g-index

27
all docs

27
docs citations

27
times ranked

2259
citing authors

#	ARTICLE	IF	CITATIONS
1	3D charge and 2D phonon transports leading to high out-of-plane Q in n-type SnSe crystals. Science, 2018, 360, 778-783.	12.6	859
2	Ultrahigh Piezoelectric Properties in Textured (K,Na)NbO ₃ -Based Lead-Free Ceramics. Advanced Materials, 2018, 30, 1705171.	21.0	361
3	Ultrahigh energy density and improved discharged efficiency in bismuth sodium titanate based relaxor ferroelectrics with A-site vacancy. Journal of Materiomics, 2018, 4, 202-207.	5.7	86
4	Realizing High-Ranged Out-of-Plane ZTs in n-Type SnSe Crystals through Promoting Continuous Phase Transition. Advanced Energy Materials, 2019, 9, 1901334.	19.5	83
5	Nanodomain Engineered (K, Na)NbO ₃ Lead-Free Piezoceramics: Enhanced Thermal and Cycling Reliabilities. Journal of the American Ceramic Society, 2015, 98, 448-454.	3.8	57
6	Composition Inhomogeneity due to Alkaline Volatilization in (K,Na)NbO ₃ Lead-Free Piezoceramics. Journal of the American Ceramic Society, 2013, 96, 2693-2695.	3.8	56
7	Diffuse dielectric behaviour in Na _{0.5} K _{0.5} NbO ₃ -LiTaO ₃ -BiScO ₃ lead-free ceramics. Materials Chemistry and Physics, 2011, 129, 411-417.	4.0	51
8	Domain Evolution and Piezoelectric Response across Thermotropic Phase Boundary in (K,Na)NbO ₃ -Based Epitaxial Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 13315-13322.	8.0	50
9	Enhanced energy storage density and discharge efficiency in potassium sodium niobite-based ceramics prepared using a new scheme. Journal of the European Ceramic Society, 2020, 40, 2357-2365.	5.7	41
10	Proton-Dominated Reversible Aqueous Zinc Batteries with an Ultraflat Long Discharge Plateau. ACS Nano, 2021, 15, 14766-14775.	14.6	38
11	Oxygen vacancy migration and its lattice structural origin in A-site non-stoichiometric bismuth sodium titanate perovskites. Journal of Materiomics, 2022, 8, 719-729.	5.7	36
12	Deferred Polarization Saturation Boosting Superior Energy-Storage Efficiency and Density Simultaneously under Moderate Electric Field in Relaxor Ferroelectrics. ACS Applied Energy Materials, 2022, 5, 3436-3446.	5.1	36
13	Core-shell grain structures and dielectric properties of Na _{0.5} K _{0.5} NbO ₃ -LiTaO ₃ -BiScO ₃ piezoelectric ceramics. Acta Materialia, 2015, 90, 204-212.	7.9	28
14	Phase diagram and structure-property relationships in the lead-free piezoelectric system: Na _{0.5} K _{0.5} NbO ₃ -LiTaO ₃ . IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1819-1825.	3.0	26
15	Dielectric and piezoelectric properties in the lead-free system Na _{0.5} K _{0.5} NbO ₃ -BiScO ₃ -LiTaO ₃ . IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1811-1818.		
16	Monoclinic (K,Na)NbO ₃ Ferroelectric Phase in Epitaxial Films. Advanced Electronic Materials, 2017, 3, 1700226.	5.1	20
17	High Q values and humidity effect on the electrical properties of (K, Na)NbO ₃ oxides. Journal of the American Ceramic Society, 2017, 100, 1561-1569.	3.8	19
18	Fabrication of high aspect ratio nanoscale periodic structures by the soft X-ray interference lithography. Microelectronic Engineering, 2017, 170, 49-53.	2.4	14

#	ARTICLE	IF	CITATIONS
19	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
20	Core-shell grain structures and ferroelectric properties of $Na_{0.5}K_{0.5}NbO_3 \text{ } \hat{=}$ $LiTaO_3 \text{ } \hat{=}$ $BiScO_3$ piezoelectric ceramics. <i>Data in Brief</i> , 2015, 4, 34-39.	1.0	10
21	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
22	Development of broadband X-ray interference lithography large area exposure system. <i>Review of Scientific Instruments</i> , 2016, 87, 043303.	1.3	9
23	The control of magnetic vortex state in rectangular nanomagnet. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 451, 379-384.	2.3	7
24	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
25	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
26	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
27	Piezoelectrics: Monoclinic $(K,Na)NbO_3$ Ferroelectric Phase in Epitaxial Films (Adv.) <i>Tj ETQq1 1 0.784314 rgBT /Oerlock 1</i>	5.1	1