

Hao Deng

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	New Polarized Neutron Diffraction Setup for Precise High-Field Investigations of Magnetic Structures up to 8 T at MLZ. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	0
2	Revealing the Absolute Direction of the Dzyaloshinskii-Moriya Interaction in Prototypical Weak Ferromagnets by Polarized Neutrons. Physical Review X, 2021, 11, .	8.9	5
3	Realization of the kagome spin ice state in a frustrated intermetallic compound. Science, 2020, 367, 1218-1223.	12.6	35
4	Partial Up-Up-Down Order with the Continuously Distributed Order Parameter in the Triangular Antiferromagnet $TmMgGaO_4$. Physical Review X, 2020, 10, .	8.9	22
5	Optimizing the piezoelectric vibration of $Pb(Mg_{1/3}Nb_{2/3})O_3-0.25PbTiO_3$ single crystal by alternating current polarization for ultrasonic transducer. Applied Physics Letters, 2020, 116, .	3.3	23
6	Low-temperature crystal structure of the unconventional spin-triplet superconductor UTe_2 from single-crystal neutron diffraction. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 137-143.	1.1	26
7	Magnetocaloric Mn_5Si_3 and $MnFe_4Si_3$ at variable pressure and temperature. Materials Research Express, 2019, 6, 096118.	1.6	5
8	Giant tunability of upconversion photoluminescence in Er^{3+} -doped $(K, Tl)ErQqO_0.0rgBT/Overlock$ $10Tf50462Td(Na)N$	3.6	20
9	In-situ electric field induced nanoscale BO_6 octahedral tilting in lead-free Fe-doped $0.95(Na_{1/2}Bi_{1/2})TiO_3 \hat{\epsilon} 0.05BaTiO_3$ single crystal. Scripta Materialia, 2019, 165, 94-97.	5.2	1
10	Setup for polarized neutron diffraction using a high- T_c superconducting magnet on the instrument POLI at MLZ and its applications. Journal of Physics: Conference Series, 2019, 1316, 012016.	0.4	4
11	Spin reorientation in FeCrAs revealed by single-crystal neutron diffraction. Physical Review B, 2019, 100, .	3.2	2
12	Piezoelectric performance enhancement of $Pb(Mg_{1/3}Nb_{2/3})O_3-0.25PbTiO_3$ crystals by alternating current polarization for ultrasonic transducer. Applied Physics Letters, 2018, 112, .	3.3	79
13	Dielectric and piezoelectric properties of lead-free $(K_{0.44}Na_{0.46})NbO_3-0.5\%MnO_2$ single crystals grown by the TSSG method. Ceramics International, 2016, 42, 15327-15331.	4.8	13
14	Study of temperature-dependent Raman spectroscopy and electrical properties in [001]-oriented $0.35Pb(In_{1/2}Nb_{1/2})O_3-0.35Pb(Mg_{1/3}Nb_{2/3})O_3-0.30PbTiO_3-Mn$ single crystals. Journal of Applied Physics, 2016, 119, .	2.5	13
15	Giant strain and electric-field-induced phase transition in lead-free $(Na_{0.5}Bi_{0.5})TiO_3-BaTiO_3-(K_{0.5}Na_{0.5})NbO_3$ single crystal. Applied Physics Letters, 2016, 108, .	3.3	42
16	3D-Printing of inverted pyramid suspending architecture for pyroelectric infrared detectors with inhibited microphonic effect. Infrared Physics and Technology, 2016, 76, 111-115.	2.9	11
17	Enhanced piezoelectric response and thermal stability in $(1 \hat{a} \hat{x} \hat{a} \hat{y})(Na_{1/2}Bi_{1/2})TiO_3 \hat{\epsilon} y(K_{1/2}Bi_{1/2})TiO_3 \hat{\epsilon} xBaTiO_3$ ternary ferroelectric single crystals. Scripta Materialia, 2016, 113, 43-47.	5.2	15
18	Improvement of magnetoelectric properties in metglas/ $Pb(Mg_{1/3}Nb_{2/3})O_3 \hat{\epsilon} PbTiO_3$ /metglas laminates with screen-printed ID-electrodes by poling optimization. Journal of Alloys and Compounds, 2016, 656, 793-797.	5.5	7

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19	Compositional segregation, structural transformation and property-temperature relationship of high-Curie temperature $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ single crystals. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 9316-9328.	2.2	21
20	The Growth and Properties of Lead-Free Ferroelectric Single Crystals. <i>Crystals</i> , 2015, 5, 172-192.	2.2	15
21	Phase transition behavior and defect chemistry of [001]-oriented $0.15\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-}0.57\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.28\text{PbTiO}_3\text{-Mn}$ single crystals. <i>Journal of Applied Physics</i> , 2015, 117, 244102.	2.5	26
22	Direct observation of monoclinic ferroelectric phase and domain switching process in $(\text{K}_{0.25}\text{Na}_{0.75})\text{NbO}_3$ single crystals. <i>CrystEngComm</i> , 2015, 17, 2872-2877.	2.6	24
23	Structures and electrical characterizations of high-Curie temperature $(\text{Na}_{0.5}\text{Bi}_{0.5})\text{TiO}_3\text{-PbTiO}_3$ low-lead single crystals with compositions near the morphotropic phase boundary. <i>Ceramics International</i> , 2015, 41, 6722-6728.	4.8	7
24	Structure and electrical properties of $\text{Na}_{1/2}\text{Bi}_{1/2}\text{TiO}_3\text{-}x\text{K}_{1/2}\text{Bi}_{1/2}\text{TiO}_3$ lead-free ferroelectric single crystals. <i>Solid State Communications</i> , 2015, 201, 125-129.	1.9	22
25	An effective growth method to improve the homogeneity of relaxor ferroelectric single crystal $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$. <i>Crystal Research and Technology</i> , 2014, 49, 122-128.	1.3	14
26	Study of field-induced phase transitions in $0.68\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3\text{-}0.32\text{PbTiO}_3$ relaxor single crystal by polarized micro-Raman spectroscopy. <i>Applied Physics Letters</i> , 2014, 105, 102909.	3.3	9
27	Structure, Electrical, and Optical Properties of $(\text{Na}_{1/2}\text{Bi}_{1/2})\text{TiO}_3\text{-}x\text{K}_{1/2}\text{Bi}_{1/2}\text{TiO}_3$ Lead-free Single Crystal Grown by a TSSG Technique. <i>Journal of the American Ceramic Society</i> , 2014, 97, 1861-1865.	3.8	10
28	Photoluminescence and electrical properties of Eu-doped $(\text{Na}_{0.5}\text{Bi}_{0.5})\text{TiO}_3$ ferroelectric single crystals. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 114, 357-361.	2.3	4
29	Electric field and temperature-induced phase transition in Mn-doped $\text{Na}_{1/2}\text{Bi}_{1/2}\text{TiO}_3\text{-}5.0\text{ at.}\%\text{BaTiO}_3$ single crystals investigated by micro-Raman scattering. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	23
30	Orientation dependence of electrical properties of large-sized sodium potassium niobate lead-free single crystals. <i>CrystEngComm</i> , 2014, 16, 2760-2765.	2.6	39
31	Ultrahigh ferroelectric response in Fe modified $0.95(\text{Na}_{1/2}\text{Bi}_{1/2})\text{TiO}_3\text{-}0.05\text{BaTiO}_3$ single crystals. <i>Journal of Materials Chemistry C</i> , 2014, 2, 10124-10128.	5.5	25
32	Chemical nature of giant strain in Mn-doped $0.94(\text{Na}_{0.5}\text{Bi}_{0.5})\text{TiO}_3\text{-}0.06\text{BaTiO}_3$ lead-free ferroelectric single crystals. <i>Scripta Materialia</i> , 2014, 75, 50-53.	5.2	65
33	Enhanced ferroelectric properties and thermal stability of nonstoichiometric $0.92(\text{Na}_{0.5}\text{Bi}_{0.5})\text{TiO}_3\text{-}0.08(\text{K}_{0.5}\text{Bi}_{0.5})\text{TiO}_3$ single crystals. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	26
34	Parallel multilayer magnetoelectric composite based on $(1-x)\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{-}x\text{PbTiO}_3$ and Terfenol-D coupled with charge mode amplifier. <i>Journal of Applied Physics</i> , 2012, 111, 043909.	2.5	16
35	An improved magnetic field detection unit based on length-magnetized Terfenol-D and width-polarized ternary $0.35\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-}0.35\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.30\text{PbTiO}_3$. <i>Applied Physics Letters</i> , 2012, 101, 232906.	3.3	14