# Hao Deng

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 35 papers | 683 citations | 516710 16 h-index | 552781 26 g-index |
| 35 all docs | 35 docs citations | 35 times ranked | 805 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Piezoelectric performance enhancement of Pb(Mg1/3Nb2/3)O3-0.25PbTiO3 crystals by alternating current polarization for ultrasonic transducer. Applied Physics Letters, 2018, 112, . | 3.3 | 79 |
| 2 | Chemical nature of giant strain in Mn-doped 0.94(Na0.5Bi0.5)TiO3â€“0.06BaTiO3 lead-free ferroelectric single crystals. Scripta Materialia, 2014, 75, 50-53. | 5.2 | 65 |
| 3 | Giant strain and electric-field-induced phase transition in lead-free (Na0.5Bi0.5)TiO3-BaTiO3-(K0.5Na0.5)NbO3 single crystal. Applied Physics Letters, 2016, 108, . | 3.3 | 42 |
| 4 | Orientation dependence of electrical properties of large-sized sodium potassium niobate lead-free single crystals. CrystEngComm, 2014, 16, 2760-2765. | 2.6 | 39 |
| 5 | Realization of the kagome spin ice state in a frustrated intermetallic compound. Science, 2020, 367, 1218-1223. | 12.6 | 35 |
| 6 | Enhanced ferroelectric properties and thermal stability of nonstoichiometric 0.92(Na0.5Bi0.5)TiO3-0.08(K0.5Bi0.5)TiO3 single crystals. Applied Physics Letters, 2013, 103, . | 3.3 | 26 |
| 7 | Phase transition behavior and defect chemistry of [001]-oriented 0.15Pb(In1/2Nb1/2)O3-0.57Pb(Mg1/3Nb2/3)O3-0.28PbTiO3-Mn single crystals. Journal of Applied Physics, 2015, 117, 244102. | 2.5 | 26 |
| 8 | Low-temperature crystal structure of the unconventional spin-triplet superconductor UTe<sub>2</sub>from single-crystal neutron diffraction. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 137-143. | 1.1 | 26 |
| 9 | Ultrahigh ferroelectric response in Fe modified 0.95(Na<sub>1/2</sub>Bi<sub>1/2</sub>)TiO<sub>3</sub>-0.05BaTiO<sub>3</sub> single crystals. Journal of Materials Chemistry C, 2014, 2, 10124-10128. | 5.5 | 25 |
| 10 | Direct observation of monoclinic ferroelectric phase and domain switching process in (K<sub>0.25</sub>Na<sub>0.75</sub>)NbO<sub>3</sub> single crystals. CrystEngComm, 2015, 17, 2872-2877. | 2.6 | 24 |
| 11 | Electric field and temperature-induced phase transition in Mn-doped Na1/2Bi1/2TiO3-5.0 at.%BaTiO3 single crystals investigated by micro-Raman scattering. Applied Physics Letters, 2014, 104, . | 3.3 | 23 |
| 12 | Optimizing the piezoelectric vibration of Pb(Mg1/3Nb2/3)O3-0.25PbTiO3 single crystal by alternating current polarization for ultrasonic transducer. Applied Physics Letters, 2020, 116, . | 3.3 | 23 |
| 13 | Structure and electrical properties of Na 1/2 Bi 1/2 TiO 3 â€“ x K 1/2 Bi 1/2 TiO 3 lead-free ferroelectric single crystals. Solid State Communications, 2015, 201, 125-129. | 1.9 | 22 |
| 14 | Partial Up-Up-Down Order with the Continuously Distributed Order Parameter in the Triangular Antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>TmMgGaO</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:m Physical Review X, 2020, 10, . | 8.9 | 22 |
| 15 | Compositional segregation, structural transformation and property-temperature relationship of high-Curie temperature Pb(In1/2Nb1/2)O3â€“Pb(Mg1/3Nb2/3)O3â€“PbTiO3 single crystals. Journal of Materials Science: Materials in Electronics, 2015, 26, 9316-9328. | 2.2 | 21 |
| 16 | Giant tunability of upconversion photoluminescence in Er<sup>3+</sup>-doped (K,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (Na)N | 5.6 | 20 |
| 17 | Parallel multilayer magnetoelectric composite based on (1â^'x)Pb(Mg1/3Nb2/3)â^'xPbTiO3 and Terfenol-D coupled with charge mode amplifier. Journal of Applied Physics, 2012, 111, 043909. | 2.5 | 16 |
| 18 | The Growth and Properties of Lead-Free Ferroelectric Single Crystals. Crystals, 2015, 5, 172-192. | 2.2 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Enhanced piezoelectric response and thermal stability in (1 â˜' x â˜' y)(Na 1/2 Bi 1/2 )TiO 3 â€“y(K 1/2 Bi 1/2 )TiO 3 â€“xBaTiO 3 ternary ferroelectric single crystals. Scripta Materialia, 2016, 113, 43-47. | 5.2 | 15 |
| 20 | An improved magnetic field detection unit based on length-magnetized Terfenol-D and width-polarized ternary 0.35Pb(In1/2Nb1/2)O3-0.35Pb(Mg1/3Nb2/3)O3-0.30PbTiO3. Applied Physics Letters, 2012, 101, 232906. | 3.3 | 14 |
| 21 | An effective growth method to improve the homogeneity of relaxor ferroelectric single crystal Pb(In<sub>1/2</sub>Nb<sub>1/2</sub>)O<sub>3</sub>â€• Pb(Mg<sub>1/3</sub>Nb<sub>2/3</sub>)O<sub>3</sub>â€PbTiO<sub>3</sub>. Crystal Research and Technology, 2014, 49, 122-128. | 1.3 | 14 |
| 22 | Dielectric and piezoelectric properties of lead-free (K0.44Na0.46)NbO3-0.5%MnO2 single crystals grown by the TSSG method. Ceramics International, 2016, 42, 15327-15331. | 4.8 | 13 |
| 23 | Study of temperature-dependent Raman spectroscopy and electrical properties in [001]-oriented 0.35Pb(In1/2Nb1/2)O3-0.35Pb(Mg1/3Nb2/3)O3-0.30PbTiO3-Mn single crystals. Journal of Applied Physics, 2016, 119, . | 2.5 | 13 |
| 24 | 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 |
| 25 | Structure, Electrical, and Optical Properties of (<scp><scp>Na</scp></scp><sub>1/2</sub><scp><scp>Bi</scp></scp><sub>1/2</sub>)<scp><scp>TiO</scp></scp><sub>3</sub>â€ Lead‐free Single Crystal Grown by a <scp>TSSG</scp> Technique. Journal of the American Ceramic Society, 2014, 97, 1861-1865. | 3.8 | 10 |
| 26 | Study of field-induced phase transitions in 0.68PbMg1/3Nb2/3O3â€“0.32PbTiO3 relaxor single crystal by polarized micro-Raman spectroscopy. Applied Physics Letters, 2014, 105, 102909. | 3.3 | 9 |
| 27 | Structures and electrical characterizations of high-Curie temperature (Na0.5Bi0.5)TiO3â€“PbTiO3 low-lead single crystals with compositions near the morphotropic phase boundary. Ceramics International, 2015, 41, 6722-6728. | 4.8 | 7 |
| 28 | Improvement of magnetoelectric properties in metglas/Pb(Mg 1/3 Nb 2/3 )O 3 â€“PbTiO 3 /metglas laminates with screen-printed ID-electrodes by poling optimization. Journal of Alloys and Compounds, 2016, 656, 793-797. | 5.5 | 7 |
| 29 | Magnetocaloric Mn<sub>5</sub>Si<sub>3</sub> and MnFe<sub>4</sub>Si<sub>3</sub> at variable pressure and temperature. Materials Research Express, 2019, 6, 096118. | 1.6 | 5 |
| 30 | Revealing the Absolute Direction of the Dzyaloshinskii-Moriya Interaction in Prototypical Weak Ferromagnets by Polarized Neutrons. Physical Review X, 2021, 11, . | 8.9 | 5 |
| 31 | Photoluminescence and electrical properties of Eu-doped (Na0.5Bi0.5)TiO3 ferroelectric single crystals. Applied Physics A: Materials Science and Processing, 2014, 114, 357-361. | 2.3 | 4 |
| 32 | Setup for polarized neutron diffraction using a high-T<sub>c</sub> superconducting magnet on the instrument POLI at MLZ and its applications. Journal of Physics: Conference Series, 2019, 1316, 012016. | 0.4 | 4 |
| 33 | Spin reorientation in FeCrAs revealed by single-crystal neutron diffraction. Physical Review B, 2019, 100, . | 3.2 | 2 |
| 34 | In-situ electric field induced nanoscale BO6 octahedral tilting in lead-free Fe-doped 0.95(Na1/2Bi1/2)TiO3â€“0.05BaTiO3 single crystal. Scripta Materialia, 2019, 165, 94-97. | 5.2 | 1 |
| 35 | 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 |