

Bo Wang

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,231
citations

471061

17
h-index

525886

27
g-index

30
all docs

30
docs citations

30
times ranked

1627
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | High-Performance Polymers Sandwiched with Chemical Vapor Deposited Hexagonal Boron Nitrides as Scalable High-Temperature Dielectric Materials. <i>Advanced Materials</i> , 2017, 29, 1701864. | 11.1 | 270 |
| 2 | Flexoelectricity in solids: Progress, challenges, and perspectives. <i>Progress in Materials Science</i> , 2019, 106, 100570. | 16.0 | 223 |
| 3 | Selective control of multiple ferroelectric switching pathways using a trailing flexoelectric field. <i>Nature Nanotechnology</i> , 2018, 13, 366-370. | 15.6 | 124 |
| 4 | Controlled manipulation of oxygen vacancies using nanoscale flexoelectricity. <i>Nature Communications</i> , 2017, 8, 615. | 5.8 | 93 |
| 5 | Enhanced flexoelectricity at reduced dimensions revealed by mechanically tunable quantum tunnelling. <i>Nature Communications</i> , 2019, 10, 537. | 5.8 | 64 |
| 6 | Ferroelectric crystals with giant electro-optic property enabling ultracompact Q-switches. <i>Science</i> , 2022, 376, 371-377. | 6.0 | 46 |
| 7 | Nanodomain Engineering in Ferroelectric Capacitors with Graphene Electrodes. <i>Nano Letters</i> , 2016, 16, 6460-6466. | 4.5 | 41 |
| 8 | A thermodynamic potential and the temperature-composition phase diagram for single-crystalline $K_{1-x}Na_xNbO_3$ ($0 \leq x \leq 0.5$). <i>Applied Physics Letters</i> , 2017, 110, . | 1.5 | 40 |
| 9 | Domain Dynamics under Ultrafast Electric-Field Pulses. <i>Physical Review Letters</i> , 2020, 124, 107601. | 2.9 | 36 |
| 10 | Mechanically induced ferroelectric switching in $BaTiO_3$ thin films. <i>Acta Materialia</i> , 2020, 193, 151-162. | 3.8 | 31 |
| 11 | Tunneling Hot Spots in Ferroelectric $SrTiO_3$. <i>Nano Letters</i> , 2018, 18, 491-497. | 4.5 | 30 |
| 12 | Microstructural impacts on ionic conductivity of oxide solid electrolytes from a combined atomistic-mesoscale approach. <i>Npj Computational Materials</i> , 2021, 7, . | 3.5 | 25 |
| 13 | Phase-Field Based Multiscale Modeling of Heterogeneous Solid Electrolytes: Applications to Nanoporous Li_3PS_4 . <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 33341-33350. | 4.0 | 21 |
| 14 | Colossal flexoresistance in dielectrics. <i>Nature Communications</i> , 2020, 11, 2586. | 5.8 | 21 |
| 15 | Effect of Meso-Scale Geometry on Piezoelectric Performances of Additively Manufactured Flexible Polymer $Pb(Zr_xTi_{1-x})O_3$ Composites. <i>Advanced Engineering Materials</i> , 2017, 19, 1600803. | 1.6 | 19 |
| 16 | Ferroelectric domain structures and temperature-misfit strain phase diagrams of $K_{1-x}Na_xNbO_3$ thin films: A phase-field study. <i>Applied Physics Letters</i> , 2019, 115, . | 1.5 | 19 |
| 17 | Tunable Non-Volatile Memory by Conductive Ferroelectric Domain Walls in Lithium Niobate Thin Films. <i>Crystals</i> , 2020, 10, 804. | 1.0 | 19 |
| 18 | Flexoelectric control of physical properties by atomic force microscopy. <i>Applied Physics Reviews</i> , 2021, 8, . | 5.5 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Direct observation of weakened interface clamping effect enabled ferroelastic domain switching. <i>Acta Materialia</i> , 2019, 171, 184-189. | 3.8 | 18 |
| 20 | Inverse Domain Size Dependence of Piezoelectricity in Ferroelectric Crystals. <i>Advanced Materials</i> , 2021, 33, e2105071. | 11.1 | 17 |
| 21 | In-plane quasi-single-domain BaTiO ₃ via interfacial symmetry engineering. <i>Nature Communications</i> , 2021, 12, 6784. | 5.8 | 16 |
| 22 | Phase diagrams, superdomains, and superdomain walls in K _{1-x} Na _x NbO ₃ epitaxial thin films. <i>Acta Materialia</i> , 2021, 215, 117038. | 3.8 | 10 |
| 23 | Giant room temperature elastocaloric effect in metal-free thin-film perovskites. <i>Npj Computational Materials</i> , 2021, 7, . | 3.5 | 9 |
| 24 | Temperature dependence of three-dimensional domain wall arrangement in ferroelectric K _{0.9} Na _{0.1} NbO ₃ epitaxial thin films. <i>Journal of Applied Physics</i> , 2020, 128, . | 1.1 | 8 |
| 25 | Microscopic piezoelectric behavior of clamped and membrane (001) PMN-30PT thin films. <i>Applied Physics Letters</i> , 2021, 119, . | 1.5 | 5 |
| 26 | Electrical polarization induced by atomically engineered compositional gradient in complex oxide solid solution. <i>NPG Asia Materials</i> , 2019, 11, . | 3.8 | 4 |
| 27 | Stability and low-energy orientations of interphase boundaries in multiaxial ferroelectrics: Phase-field simulations. <i>Physical Review B</i> , 2022, 105, . | 1.1 | 3 |
| 28 | 10.1063/5.0029167.2., 2020, , . | | 0 |
| 29 | 10.1063/5.0029167.1., 2020, , . | | 0 |