Bo Wang

List of Publications by Year in descending order

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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	Stability and low-energy orientations of interphase boundaries in multiaxial ferroelectrics: Phase-field simulations. Physical Review B, 2022, 105, .	1.1	3
2	Ferroelectric crystals with giant electro-optic property enabling ultracompact Q-switches. Science, 2022, 376, 371-377.	6.0	46
3	Giant room temperature elastocaloric effect in metal-free thin-film perovskites. Npj Computational Materials, 2021, 7, .	3.5	9
4	Phase diagrams, superdomains, and superdomain walls in K Na1-NbO3 epitaxial thin films. Acta Materialia, 2021, 215, 117038.	3.8	10
5	Inverse Domainâ€Size Dependence of Piezoelectricity in Ferroelectric Crystals. Advanced Materials, 2021, 33, e2105071.	11.1	17
6	Microscopic piezoelectric behavior of clamped and membrane (001) PMN-30PT thin films. Applied Physics Letters, 2021, 119, .	1.5	5
7	In-plane quasi-single-domain BaTiO3 via interfacial symmetry engineering. Nature Communications, 2021, 12, 6784.	5.8	16
8	Microstructural impacts on ionic conductivity of oxide solid electrolytes from a combined atomistic-mesoscale approach. Npj Computational Materials, 2021, 7, .	3.5	25
9	Flexoelectric control of physical properties by atomic force microscopy. Applied Physics Reviews, 2021, 8, .	5.5	19
10	Tunable Non-Volatile Memory by Conductive Ferroelectric Domain Walls in Lithium Niobate Thin Films. Crystals, 2020, 10, 804.	1.0	19
11	Temperature dependence of three-dimensional domain wall arrangement in ferroelectric K0.9Na0.1NbO3 epitaxial thin films. Journal of Applied Physics, 2020, 128, .	1.1	8
12	Mechanically induced ferroelectric switching in BaTiO3 thin films. Acta Materialia, 2020, 193, 151-162.	3.8	31
13	Colossal flexoresistance in dielectrics. Nature Communications, 2020, 11, 2586.	5.8	21
14	Domain Dynamics under Ultrafast Electric-Field Pulses. Physical Review Letters, 2020, 124, 107601.	2.9	36
15	10.1063/5.0029167.2. , 2020, , .		0
16	10.1063/5.0029167.1. , 2020, , .		0
17	Ferroelectric domain structures and temperature-misfit strain phase diagrams of K1-xNaxNbO3 thin films: A phase-field study. Applied Physics Letters, 2019, 115, .	1.5	19
18	Enhanced flexoelectricity at reduced dimensions revealed by mechanically tunable quantum tunnelling. Nature Communications, 2019, 10, 537.	5.8	64

#	Article	IF	Citations
19	Flexoelectricity in solids: Progress, challenges, and perspectives. Progress in Materials Science, 2019, 106, 100570.	16.0	223
20	Electrical polarization induced by atomically engineered compositional gradient in complex oxide solid solution. NPG Asia Materials, 2019, 11, .	3.8	4
21	Direct observation of weakened interface clamping effect enabled ferroelastic domain switching. Acta Materialia, 2019, 171, 184-189.	3.8	18
22	Selective control of multiple ferroelectric switching pathways using a trailing flexoelectric field. Nature Nanotechnology, 2018, 13, 366-370.	15.6	124
23	Tunneling Hot Spots in Ferroelectric SrTiO₃. Nano Letters, 2018, 18, 491-497.	4.5	30
24	A thermodynamic potential and the temperature-composition phase diagram for single-crystalline K1-xNaxNbO3 (0â€‰â‰â€‰xâ€‰â‰â€‰0.5). Applied Physics Letters, 2017, 110, .	1.5	40
25	Effect of Mesoâ€Scale Geometry on Piezoelectric Performances of Additively Manufactured Flexible Polymerâ€Pb(Zr_xTi_{1â”x})O₃ Composites. Advanced Engineering Materials, 2017, 19, 1600803.	1.6	19
26	Phase-Field Based Multiscale Modeling of Heterogeneous Solid Electrolytes: Applications to Nanoporous Li₃PS₄. ACS Applied Materials & Interfaces, 2017, 9, 33341-33350.	4.0	21
27	Controlled manipulation of oxygen vacancies using nanoscale flexoelectricity. Nature Communications, 2017, 8, 615.	5.8	93
28	Highâ€Performance Polymers Sandwiched with Chemical Vapor Deposited Hexagonal Boron Nitrides as Scalable Highâ€Temperature Dielectric Materials. Advanced Materials, 2017, 29, 1701864.	11.1	270
29	Nanodomain Engineering in Ferroelectric Capacitors with Graphene Electrodes. Nano Letters, 2016, 16, 6460-6466.	4.5	41