Xiaoxing Cheng

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Controllable conductive readout in self-assembled, topologically confined ferroelectric domain walls. Nature Nanotechnology, 2018, 13, 947-952.	31.5	163
2	Phase transition enhanced superior elasticity in freestanding single-crystalline multiferroic BiFeO ₃ membranes. Science Advances, 2020, 6, .	10.3	73
3	Anisotropic polarization-induced conductance at a ferroelectric–insulator interface. Nature Nanotechnology, 2018, 13, 1132-1136.	31.5	53
4	Defect-Induced Hedgehog Polarization States in Multiferroics. Physical Review Letters, 2018, 120, 137602.	7.8	52
5	Intrinsic Conductance of Domain Walls in BiFeO ₃ . Advanced Materials, 2019, 31, e1902099.	21.0	39
6	Control of Domain Structures in Multiferroic Thin Films through Defect Engineering. Advanced Materials, 2018, 30, e1802737.	21.0	31
7	Effect of cooling rates on the dendritic morphology transition of Mg–6Gd alloy by in situ X-ray radiography. Journal of Materials Science and Technology, 2018, 34, 1142-1148.	10.7	27
8	The role of lattice dynamics in ferroelectric switching. Nature Communications, 2022, 13, 1110.	12.8	25
9	The effect of low cooling rates on dendrite morphology during directional solidification in Mg–Gd alloys: In situ X-ray radiographic observation. Materials Letters, 2016, 163, 218-221.	2.6	20
10	Domain patterns and super-elasticity of freestanding BiFeO3 membranes via phase-field simulations. Acta Materialia, 2021, 208, 116689.	7.9	18
11	Understanding and predicting geometrical constraint ferroelectric charged domain walls in a BiFeO3 island via phase-field simulations. Applied Physics Letters, 2018, 113, .	3.3	17
12	Switching the chirality of a magnetic vortex deterministically with an electric field. Materials Research Letters, 2018, 6, 669-675.	8.7	13
13	Strain effects on domain structures in ferroelectric thin films from phaseâ€field simulations. Journal of the American Ceramic Society, 2018, 101, 4783-4790	3.8	7
14	Boundary conditions manipulation of polar vortex domains in BiFeO ₃ membranes via phase-field simulations. Journal Physics D: Applied Physics, 2021, 54, 495301.	2.8	4