

# Xiaoxing Cheng

## List of Publications by Year in descending order

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papers

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758635

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#	ARTICLE	IF	CITATIONS
1	Controllable conductive readout in self-assembled, topologically confined ferroelectric domain walls. <i>Nature Nanotechnology</i> , 2018, 13, 947-952.	15.6	163
2	Phase transition enhanced superior elasticity in freestanding single-crystalline multiferroic BiFeO <sub>3</sub> membranes. <i>Science Advances</i> , 2020, 6, .	4.7	73
3	Anisotropic polarization-induced conductance at a ferroelectric-insulator interface. <i>Nature Nanotechnology</i> , 2018, 13, 1132-1136.	15.6	53
4	Defect-Induced Hedgehog Polarization States in Multiferroics. <i>Physical Review Letters</i> , 2018, 120, 137602.	2.9	52
5	Intrinsic Conductance of Domain Walls in BiFeO <sub>3</sub> . <i>Advanced Materials</i> , 2019, 31, e1902099.	11.1	39
6	Control of Domain Structures in Multiferroic Thin Films through Defect Engineering. <i>Advanced Materials</i> , 2018, 30, e1802737.	11.1	31
7	Effect of cooling rates on the dendritic morphology transition of Mg <sup>2+</sup> /Gd alloy by in situ X-ray radiography. <i>Journal of Materials Science and Technology</i> , 2018, 34, 1142-1148.	5.6	27
8	The role of lattice dynamics in ferroelectric switching. <i>Nature Communications</i> , 2022, 13, 1110.	5.8	25
9	The effect of low cooling rates on dendrite morphology during directional solidification in Mg <sup>2+</sup> /Gd alloys: In situ X-ray radiographic observation. <i>Materials Letters</i> , 2016, 163, 218-221.	1.3	20
10	Domain patterns and super-elasticity of freestanding BiFeO <sub>3</sub> membranes via phase-field simulations. <i>Acta Materialia</i> , 2021, 208, 116689.	3.8	18
11	Understanding and predicting geometrical constraint ferroelectric charged domain walls in a BiFeO <sub>3</sub> island via phase-field simulations. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	17
12	Switching the chirality of a magnetic vortex deterministically with an electric field. <i>Materials Research Letters</i> , 2018, 6, 669-675.	4.1	13
13	Strain effects on domain structures in ferroelectric thin films from phase-field simulations. <i>Journal of the American Ceramic Society</i> , 2018, 101, 4783-4790.	1.9	7
14	Boundary conditions manipulation of polar vortex domains in BiFeO <sub>3</sub> membranes via phase-field simulations. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 495301.	1.3	4