# Xiaoxing Cheng

List of Publications by Year
in descending order



| 14 | 542 | 758635 12 | 1058022 14 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 14 | 14 | 14 | 823 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The role of lattice dynamics in ferroelectric switching. Nature Communications, 2022, 13, 1110. | 5.8 | 25 |
| 2 | Domain patterns and super-elasticity of freestanding BiFeO3 membranes via phase-field simulations. Acta Materialia, 2021, 208, 116689. | 3.8 | 18 |
| 3 | Boundary conditions manipulation of polar vortex domains in BiFeO<sub>3</sub> membranes via phase-field simulations. Journal Physics D: Applied Physics, 2021, 54, 495301. | 1.3 | 4 |
| 4 | Phase transition enhanced superior elasticity in freestanding single-crystalline multiferroic BiFeO <sub>3</sub> membranes. Science Advances, 2020, 6, . | 4.7 | 73 |
| 5 | Intrinsic Conductance of Domain Walls in BiFeO<sub>3</sub>. Advanced Materials, 2019, 31, e1902099. | 11.1 | 39 |
| 6 | Effect of cooling rates on the dendritic morphology transition of Mgâ€“6Gd alloy by in situ X-ray radiography. Journal of Materials Science and Technology, 2018, 34, 1142-1148. | 5.6 | 27 |
| 7 | Strain effects on domain structures in ferroelectric thin films from phaseâ€field simulations. Journal of the American Ceramic Society, 2018, 101, 4783-4790. | 1.9 | 7 |
| 8 | Defect-Induced Hedgehog Polarization States in Multiferroics. Physical Review Letters, 2018, 120, 137602. | 2.9 | 52 |
| 9 | Understanding and predicting geometrical constraint ferroelectric charged domain walls in a BiFeO3 island via phase-field simulations. Applied Physics Letters, 2018, 113, . | 1.5 | 17 |
| 10 | Anisotropic polarization-induced conductance at a ferroelectricâ€“insulator interface. Nature Nanotechnology, 2018, 13, 1132-1136. | 15.6 | 53 |
| 11 | Switching the chirality of a magnetic vortex deterministically with an electric field. Materials Research Letters, 2018, 6, 669-675. | 4.1 | 13 |
| 12 | Control of Domain Structures in Multiferroic Thin Films through Defect Engineering. Advanced Materials, 2018, 30, e1802737. | 11.1 | 31 |
| 13 | Controllable conductive readout in self-assembled, topologically confined ferroelectric domain walls. Nature Nanotechnology, 2018, 13, 947-952. | 15.6 | 163 |
| 14 | The effect of low cooling rates on dendrite morphology during directional solidification in Mgâ€“Gd alloys: In situ X-ray radiographic observation. Materials Letters, 2016, 163, 218-221. | 1.3 | 20 |