

Ran Gao

List of Publications by Year in descending order

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18
papers

672
citations

623574

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887953

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18
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1283
citing authors

#	ARTICLE	IF	CITATIONS
1	Pyroelectric energy conversion with large energy and power density in relaxor ferroelectric thin films. <i>Nature Materials</i> , 2018, 17, 432-438.	13.3	198
2	Interfacial Octahedral Rotation Mismatch Control of the Symmetry and Properties of SrRuO ₃ . <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14871-14878.	4.0	59
3	Nonstoichiometry, Structure, and Properties of BiFeO ₃ Films. <i>Chemistry of Materials</i> , 2016, 28, 5952-5961.	3.2	54
4	Self-Assembled, Nanostructured, Tunable Metamaterials <i>via</i> Spinodal Decomposition. <i>ACS Nano</i> , 2016, 10, 10237-10244.	7.3	47
5	Reducing Coercive-Field Scaling in Ferroelectric Thin Films <i>via</i> Orientation Control. <i>ACS Nano</i> , 2018, 12, 4736-4743.	7.3	47
6	Understanding the Role of Ferroelastic Domains on the Pyroelectric and Electrocaloric Effects in Ferroelectric Thin Films. <i>Advanced Materials</i> , 2019, 31, e1803312.	11.1	34
7	Local control of defects and switching properties in ferroelectric thin films. <i>Physical Review Materials</i> , 2018, 2, .	0.9	34
8	Designing Optimal Perovskite Structure for High Ionic Conduction. <i>Advanced Materials</i> , 2020, 32, e1905178.	11.1	30
9	Electronic Transport and Ferroelectric Switching in Ion-Bombarded, Defect-Engineered BiFeO ₃ Thin Films. <i>Advanced Materials Interfaces</i> , 2018, 5, 1700991.	1.9	29
10	Epitaxial Strain Control of Relaxor Ferroelectric Phase Evolution. <i>Advanced Materials</i> , 2019, 31, e1901060.	11.1	29
11	Observation of solid-state bidirectional thermal conductivity switching in antiferroelectric lead zirconate (PbZrO ₃). <i>Nature Communications</i> , 2022, 13, 1573.	5.8	25
12	Ultrafast collective oxygen-vacancy flow in Ca-doped BiFeO ₃ . <i>NPG Asia Materials</i> , 2018, 10, 943-955.	3.8	21
13	Correlating Surface Crystal Orientation and Gas Kinetics in Perovskite Oxide Electrodes. <i>Advanced Materials</i> , 2021, 33, e2100977.	11.1	17
14	Quantifying Intrinsic, Extrinsic, Dielectric, and Secondary Pyroelectric Responses in PbZr _{1-x} Ti _x O ₃ Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35146-35154.	4.0	16
15	Field-induced heterophase state in PbZrO_3 thin films. <i>Physical Review B</i> , 2022, 105, .	11.1	12
16	Strain-Induced Orbital Contributions to Oxygen Electrocatalysis in Transition-Metal Perovskites. <i>Advanced Energy Materials</i> , 2021, 11, 2102175.	10.2	9
17	Strain-Driven Nanoscale Phase Competition near the Antipolar-Nonpolar Phase Boundary in Bi _{0.7} La _{0.3} FeO ₃ Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14914-14921.	4.0	8
18	Ultrahigh Kinetic Inductance Superconducting Materials from Spinodal Decomposition. <i>Advanced Materials</i> , 0, , 2201268.	11.1	3