

# Ran Gao

## List of Publications by Year in descending order

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18  
papers

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623574

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887953

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times ranked

1283  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of solid-state bidirectional thermal conductivity switching in antiferroelectric lead zirconate (PbZrO <sub>3</sub> ). Nature Communications, 2022, 13, 1573.	5.8	25
2	Field-induced heterophase state in $\text{PbZrO}_3$ thin films. Physical Review B, 2022, 105, .	11.2	12
3	Correlating Surface Crystal Orientation and Gas Kinetics in Perovskite Oxide Electrodes. Advanced Materials, 2021, 33, e2100977.	11.1	17
4	Strain-Induced Orbital Contributions to Oxygen Electrocatalysis in Transition-Metal Perovskites. Advanced Energy Materials, 2021, 11, 2102175.	10.2	9
5	Designing Optimal Perovskite Structure for High Ionic Conduction. Advanced Materials, 2020, 32, e1905178.	11.1	30
6	Quantifying Intrinsic, Extrinsic, Dielectric, and Secondary Pyroelectric Responses in $\text{PbZr}_{1-x}\text{Ti}_x\text{O}_3$ Thin Films. ACS Applied Materials & Interfaces, 2019, 11, 35146-35154.	4.0	16
7	Epitaxial Strain Control of Relaxor Ferroelectric Phase Evolution. Advanced Materials, 2019, 31, e1901060.	11.1	29
8	Understanding the Role of Ferroelastic Domains on the Pyroelectric and Electrocaloric Effects in Ferroelectric Thin Films. Advanced Materials, 2019, 31, e1803312.	11.1	34
9	Pyroelectric energy conversion with large energy and power density in relaxor ferroelectric thin films. Nature Materials, 2018, 17, 432-438.	13.3	198
10	Strain-Driven Nanoscale Phase Competition near the Antipolar-Nonpolar Phase Boundary in $\text{Bi}_{0.7}\text{La}_{0.3}\text{FeO}_3$ Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 14914-14921.	4.0	8
11	Reducing Coercive-Field Scaling in Ferroelectric Thin Films <i>via</i> Orientation Control. ACS Nano, 2018, 12, 4736-4743.	7.3	47
12	Electronic Transport and Ferroelectric Switching in Ion-Bombarded, Defect-Engineered $\text{BiFeO}_3$ Thin Films. Advanced Materials Interfaces, 2018, 5, 1700991.	1.9	29
13	Ultrafast collective oxygen-vacancy flow in Ca-doped $\text{BiFeO}_3$ . NPG Asia Materials, 2018, 10, 943-955.	3.8	21
14	Local control of defects and switching properties in ferroelectric thin films. Physical Review Materials, 2018, 2, .	0.9	34
15	Interfacial Octahedral Rotation Mismatch Control of the Symmetry and Properties of $\text{SrRuO}_3$ . ACS Applied Materials & Interfaces, 2016, 8, 14871-14878.	4.0	59
16	Nonstoichiometry, Structure, and Properties of $\text{BiFeO}_3$ Films. Chemistry of Materials, 2016, 28, 5952-5961.	3.2	54
17	Self-Assembled, Nanostructured, Tunable Metamaterials <i>via</i> Spinodal Decomposition. ACS Nano, 2016, 10, 10237-10244.	7.3	47
18	Ultrahigh Kinetic Inductance Superconducting Materials from Spinodal Decomposition. Advanced Materials, 0, , 2201268.	11.1	3