

# Ruijuan Xu

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

1,402  
citations

304743

22  
h-index

454955

30  
g-index

30  
all docs

30  
docs citations

30  
times ranked

2215  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ferroelectric polarization reversal via successive ferroelastic transitions. Nature Materials, 2015, 14, 79-86.	27.5	216
2	Strain-induced room-temperature ferroelectricity in SrTiO <sub>3</sub> membranes. Nature Communications, 2020, 11, 3141.	12.8	121
3	Tunable Carrier Type and Density in Graphene/PbZr <sub>0.2</sub> Ti <sub>0.8</sub> O <sub>3</sub> Hybrid Structures through Ferroelectric Switching. Nano Letters, 2013, 13, 1693-1698.	9.1	103
4	New modalities of strain-control of ferroelectric thin films. Journal of Physics Condensed Matter, 2016, 28, 263001.	1.8	86
5	Stationary domain wall contribution to enhanced ferroelectric susceptibility. Nature Communications, 2014, 5, 3120.	12.8	85
6	Three-state Ferroelastic Switching and Large Electromechanical Responses in PbTiO <sub>3</sub> Thin Films. Advanced Materials, 2017, 29, 1702069.	21.0	74
7	Freestanding Oxide Ferroelectric Tunnel Junction Memories Transferred onto Silicon. Nano Letters, 2019, 19, 3999-4003.	9.1	64
8	Beyond Substrates: Strain Engineering of Ferroelectric Membranes. Advanced Materials, 2020, 32, e2003780.	21.0	58
9	Enhanced Electrical Resistivity and Properties via Ion Bombardment of Ferroelectric Thin Films. Advanced Materials, 2016, 28, 10750-10756.	21.0	52
10	Self-Assembled, Nanostructured, Tunable Metamaterials via Spinodal Decomposition. ACS Nano, 2016, 10, 10237-10244.	14.6	47
11	Reducing Coercive-Field Scaling in Ferroelectric Thin Films via Orientation Control. ACS Nano, 2018, 12, 4736-4743.	14.6	47
12	Mechanical-force-induced non-local collective ferroelastic switching in epitaxial lead-titanate thin films. Nature Communications, 2019, 10, 3951.	12.8	43
13	Nanodomain Engineering in Ferroelectric Capacitors with Graphene Electrodes. Nano Letters, 2016, 16, 6460-6466.	9.1	41
14	Orientation-dependent structural phase diagrams and dielectric properties of PbZr <sub>x</sub> Ti <sub>1-x</sub> O <sub>3</sub> polydomain. Physical Review B, 2015, 91, .	3.2	37
15	Differential voltage amplification from ferroelectric negative capacitance. Applied Physics Letters, 2017, 111, .	3.3	36
16	Understanding the Role of Ferroelastic Domains on the Pyroelectric and Electrocaloric Effects in Ferroelectric Thin Films. Advanced Materials, 2019, 31, e1803312.	21.0	34
17	Local control of defects and switching properties in ferroelectric thin films. Physical Review Materials, 2018, 2, .	2.4	34
18	Ferroelectricity in Pb <sub>1-x</sub> ZrO <sub>3</sub> Thin Films. Chemistry of Materials, 2017, 29, 6544-6551.	6.7	32

#	ARTICLE	IF	CITATIONS
19	Designing Optimal Perovskite Structure for High Ionic Conduction. <i>Advanced Materials</i> , 2020, 32, e1905178.	21.0	30
20	Electronic Transport and Ferroelectric Switching in Ion-Bombarded, Defect-Engineered BiFeO <sub>3</sub> Thin Films. <i>Advanced Materials Interfaces</i> , 2018, 5, 1700991.	3.7	29
21	Single gate p-n junctions in graphene-ferroelectric devices. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	26
22	Strain-induced growth instability and nanoscale surface patterning in perovskite thin films. <i>Scientific Reports</i> , 2016, 6, 26075.	3.3	24
23	Frontiers in strain-engineered multifunctional ferroic materials. <i>MRS Communications</i> , 2016, 6, 151-166.	1.8	17
24	Integration of amorphous ferromagnetic oxides with multiferroic materials for room temperature magnetoelectric spintronics. <i>Scientific Reports</i> , 2020, 10, 3583.	3.3	16
25	Slow Conductance Relaxation in Graphene-Ferroelectric Field-Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7542-7548.	3.1	15
26	Surface Chemically Switchable Ultraviolet Luminescence from Interfacial Two-Dimensional Electron Gas. <i>Nano Letters</i> , 2016, 16, 681-687.	9.1	11
27	Fracture and fatigue of thin crystalline SrTiO <sub>3</sub> membranes. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	10
28	Emergent chirality in a polar meron to skyrmion transition revealed by 4D-STEM. <i>Microscopy and Microanalysis</i> , 2021, 27, 348-350.	0.4	7
29	Symmetry-aware recursive image similarity exploration for materials microscopy. <i>Npj Computational Materials</i> , 2021, 7, .	8.7	5
30	Probing the dynamics of ferroelectric topological oscillators with the electron beam. <i>Microscopy and Microanalysis</i> , 2021, 27, 690-692.	0.4	2