

# Ruijuan Xu

## List of Publications by Year in descending order

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30  
papers

1,402  
citations

304602

22  
h-index

454834

30  
g-index

30  
all docs

30  
docs citations

30  
times ranked

2215  
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing the dynamics of ferroelectric topological oscillators with the electron beam. <i>Microscopy and Microanalysis</i> , 2021, 27, 690-692.	0.2	2
2	Emergent chirality in a polar meron to skyrmion transition revealed by 4D-STEM. <i>Microscopy and Microanalysis</i> , 2021, 27, 348-350.	0.2	7
3	Fracture and fatigue of thin crystalline SrTiO <sub>3</sub> membranes. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	10
4	Symmetry-aware recursive image similarity exploration for materials microscopy. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	5
5	Designing Optimal Perovskite Structure for High Ionic Conduction. <i>Advanced Materials</i> , 2020, 32, e1905178.	11.1	30
6	Beyond Substrates: Strain Engineering of Ferroelectric Membranes. <i>Advanced Materials</i> , 2020, 32, e2003780.	11.1	58
7	Strain-induced room-temperature ferroelectricity in SrTiO <sub>3</sub> membranes. <i>Nature Communications</i> , 2020, 11, 3141.	5.8	121
8	Integration of amorphous ferromagnetic oxides with multiferroic materials for room temperature magnetoelectric spintronics. <i>Scientific Reports</i> , 2020, 10, 3583.	1.6	16
9	Mechanical-force-induced non-local collective ferroelastic switching in epitaxial lead-titanate thin films. <i>Nature Communications</i> , 2019, 10, 3951.	5.8	43
10	Freestanding Oxide Ferroelectric Tunnel Junction Memories Transferred onto Silicon. <i>Nano Letters</i> , 2019, 19, 3999-4003.	4.5	64
11	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
12	Reducing Coercive-Field Scaling in Ferroelectric Thin Films <i>via</i> Orientation Control. <i>ACS Nano</i> , 2018, 12, 4736-4743.	7.3	47
13	Electronic Transport and Ferroelectric Switching in Ion-Bombarded, Defect-Engineered BiFeO <sub>3</sub> Thin Films. <i>Advanced Materials Interfaces</i> , 2018, 5, 1700991.	1.9	29
14	Local control of defects and switching properties in ferroelectric thin films. <i>Physical Review Materials</i> , 2018, 2, .	0.9	34
15	Slow Conductance Relaxation in Graphene-Ferroelectric Field-Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7542-7548.	1.5	15
16	Ferroelectricity in Pb <sub>1-x</sub> ZrO <sub>3</sub> Thin Films. <i>Chemistry of Materials</i> , 2017, 29, 6544-6551.	3.2	32
17	Three-State Ferroelastic Switching and Large Electromechanical Responses in PbTiO <sub>3</sub> Thin Films. <i>Advanced Materials</i> , 2017, 29, 1702069.	11.1	74
18	Differential voltage amplification from ferroelectric negative capacitance. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	36

#	ARTICLE	IF	CITATIONS
19	Single gate p-n junctions in graphene-ferroelectric devices. Applied Physics Letters, 2016, 108, .	1.5	26
20	New modalities of strain-control of ferroelectric thin films. Journal of Physics Condensed Matter, 2016, 28, 263001.	0.7	86
21	Nanodomain Engineering in Ferroelectric Capacitors with Graphene Electrodes. Nano Letters, 2016, 16, 6460-6466.	4.5	41
22	Enhanced Electrical Resistivity and Properties via Ion Bombardment of Ferroelectric Thin Films. Advanced Materials, 2016, 28, 10750-10756.	11.1	52
23	Frontiers in strain-engineered multifunctional ferroic materials. MRS Communications, 2016, 6, 151-166.	0.8	17
24	Self-Assembled, Nanostructured, Tunable Metamaterials <i>via</i> Spinodal Decomposition. ACS Nano, 2016, 10, 10237-10244.	7.3	47
25	Strain-induced growth instability and nanoscale surface patterning in perovskite thin films. Scientific Reports, 2016, 6, 26075.	1.6	24
26	Surface Chemically Switchable Ultraviolet Luminescence from Interfacial Two-Dimensional Electron Gas. Nano Letters, 2016, 16, 681-687.	4.5	11
27	<a href="#">Orientation-dependent structural phase diagrams and dielectric properties of <math>\text{PbZr}_{1-x}\text{Ti}_x\text{O}_3</math> polydomain.</a> Physical Review B, 2015, 91, .		37
28	Ferroelectric polarization reversal via successive ferroelastic transitions. Nature Materials, 2015, 14, 79-86.	13.3	216
29	Stationary domain wall contribution to enhanced ferroelectric susceptibility. Nature Communications, 2014, 5, 3120.	5.8	85
30	Tunable Carrier Type and Density in Graphene/ $\text{PbZr}_{0.2}\text{Ti}_{0.8}\text{O}_3$ Hybrid Structures through Ferroelectric Switching. Nano Letters, 2013, 13, 1693-1698.	4.5	103