

# Ping-Hua Xiang

## List of Publications by Year in descending order

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88  
papers

2,100  
citations

236612

25  
h-index

264894

42  
g-index

90  
all docs

90  
docs citations

90  
times ranked

2508  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric-Field-Induced Room-Temperature Antiferroelectricâ€“Ferroelectric Phase Transition in van der Waals Layered GeSe. ACS Nano, 2022, 16, 1308-1317.	7.3	30
2	Ferro-electric and magnetic properties in Bi <sub>5</sub> Ti <sub>3</sub> FeO <sub>15</sub> films by Mn doping. Journal of Materials Chemistry C, 2022, 10, 1003-1009.	2.7	0
3	Ferroelectric control of pseudospin texture in CuInP <sub>2</sub> S <sub>6</sub> monolayer. Journal of Physics Condensed Matter, 2022, 34, 204001.	0.7	3
4	Topological Hall effect in SrRuO <sub>3</sub> thin films and heterostructures. Journal of Physics Condensed Matter, 2022, 34, 244001.	0.7	3
5	Nanoscale Mapping of Cuâ€“Ion Transport in van der Waals Layered CuCrP <sub>2</sub> S <sub>6</sub> . Advanced Materials Interfaces, 2022, 9, .	1.9	11
6	Flexoelectric effect induced pâ€“n homojunction in monolayer GeSe. 2D Materials, 2022, 9, 035005.	2.0	11
7	Mechanical Polarization Switching in Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> Thin Film. Nano Letters, 2022, 22, 4792-4799.	4.5	14
8	Ion adsorption-induced reversible polarization switching of a van der Waals layered ferroelectric. Nature Communications, 2021, 12, 655.	5.8	25
9	Strain-controlled electrical and magnetic properties of SrRuO <sub>3</sub> thin films with Sr <sub>3</sub> Al <sub>2</sub> O <sub>6</sub> buffer layers. Applied Physics Letters, 2021, 118, .	1.5	8
10	A Flexible Mott Synaptic Transistor for Nociceptor Simulation and Neuromorphic Computing. Advanced Functional Materials, 2021, 31, 2101099.	7.8	76
11	Unusual magnetic transitions and phonon instabilities in tetragonal SrIrO <sub>3</sub> under epitaxial strain. Journal of Magnetism and Magnetic Materials, 2021, 522, 167547.	1.0	0
12	Revealing a high-density three-dimensional Ruddlesdenâ€“Popper-type fault network in an SmNiO <sub>3</sub> thin film. Journal of Materials Research, 2021, 36, 1637-1645.	1.2	7
13	Van der Waals epitaxy for high-quality flexible VO <sub>2</sub> film on mica substrate. Journal of Applied Physics, 2021, 130, 025301.	1.1	6
14	Effect of Ce doping on the structural, transport and magnetic properties of Sr <sub>2</sub> IrO <sub>4</sub> epitaxial films. Journal Physics D: Applied Physics, 2021, 54, 405304.	1.3	9
15	Raman Spectra of Bulk and Few-Layer GeSe From First-Principles Calculations. Frontiers in Materials, 2021, 8, .	1.2	4
16	Strain-engineering on GeSe: Raman spectroscopy study. Physical Chemistry Chemical Physics, 2021, 23, 26997-27004.	1.3	2
17	Ultra-flat ITO films on mica for high temperature transparent flexible electrodes. Ceramics International, 2020, 46, 2268-2272.	2.3	22
18	Protonâ€“Mediated Phase Control in Flexible and Transparent Mott Transistors. Advanced Electronic Materials, 2020, 6, 1900742.	2.6	19

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19	Recent Progress in Two-Dimensional Ferroelectric Materials. <i>Advanced Electronic Materials</i> , 2020, 6, 1900818.	2.6	236
20	Injection charge dynamics on the Pb(Zr <sub>0.52</sub> Ti <sub>0.48</sub> )O <sub>3</sub> surface by scanning probe microscopy. <i>Journal of Applied Physics</i> , 2020, 128, 184104.	1.1	2
21	High-speed ultraviolet photodetectors based on 2D layered CuInP <sub>2</sub> S <sub>6</sub> nanoflakes. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	42
22	Electrostatic-doping-controlled phase separation in electron-doped manganites. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	2
23	Unconventional out-of-plane domain inversion <i>via</i> in-plane ionic migration in a van der Waals ferroelectric. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6966-6971.	2.7	30
24	Nonvolatile Negative Optoelectronic Memory Based on Ferroelectric Thin Films. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1035-1040.	2.0	18
25	Reversible transition of filamentary and ferroelectric resistive switching in BaTiO <sub>3</sub> /SmNiO <sub>3</sub> heterostructures. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5815-5820.	2.7	13
26	Ferroelectric domain structure of Bi <sub>2</sub> FeCrO <sub>6</sub> multiferroic thin films. <i>Journal of Applied Physics</i> , 2020, 128, 234103.	1.1	5
27	Ultra-wide temperature electronic synapses based on self-rectifying ferroelectric memristors. <i>Nanotechnology</i> , 2019, 30, 464001.	1.3	17
28	Hydrogenation Dynamics of Electrically Controlled Metal-Insulator Transition in Proton-Gated Transparent and Flexible WO <sub>3</sub> Transistors. <i>Advanced Functional Materials</i> , 2019, 29, 1902497.	7.8	21
29	Ferroelectric polarization-controlled resistive switching in BaTiO <sub>3</sub> /SmNiO <sub>3</sub> epitaxial heterostructures. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	16
30	Mediation in the second-order synaptic emulator with conductive atomic force microscopy. <i>Nanoscale</i> , 2019, 11, 8744-8751.	2.8	14
31	Probing the origins of electroresistance switching behavior in ferroelectric thin films. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	9
32	A Robust Artificial Synapse Based on Organic Ferroelectric Polymer. <i>Advanced Electronic Materials</i> , 2019, 5, 1800600.	2.6	129
33	Ferroelectric Synapses: A Robust Artificial Synapse Based on Organic Ferroelectric Polymer (Adv.) <i>TJ ETQq1</i> 1 0.784314 rgBT /Overlock 1	2.6	3
34	Structure dependence of ferroelectricity in high quality BiMnO <sub>3</sub> epitaxial films. <i>Physical Review Materials</i> , 2019, 3, .	1.09	17
35	Fabrication of graphene-fullerene hybrid by self-assembly and its application as support material for methanol electrocatalytic oxidation reaction. <i>Applied Surface Science</i> , 2018, 440, 477-483.	3.1	27
36	Leakage mechanisms of double-perovskite Bi <sub>2</sub> FeMnO <sub>6</sub> epitaxial thin films. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 045304.	1.3	8

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37	Ultrafast Giant Photostriction of Epitaxial Strontium Iridate Film with Superior Endurance. Nano Letters, 2018, 18, 7742-7748.	4.5	21
38	Strategic improvement of Cu <sub>2</sub> SnS <sub>3</sub> thin film by different heating rates and photoluminescence investigation. Materials Science in Semiconductor Processing, 2018, 84, 124-130.	1.9	10
39	Tailoring colossal magnetoresistance and magnetoresistive memory effect by two-dimension-like phase competition in electron-doped manganite superlattices. Journal Physics D: Applied Physics, 2018, 51, 275304.	1.3	2
40	The preparation, and structural and multiferroic properties of B-site ordered double-perovskite Bi <sub>2</sub> FeMnO <sub>6</sub> . Journal of Materials Chemistry C, 2017, 5, 5494-5500.	2.7	28
41	Selective growth of Ruddlesden-Popper strontium iridate epitaxial films by controlling oxygen partial pressure in pulsed laser deposition. Materials Letters, 2017, 202, 96-98.	1.3	6
42	Electric field control of magnetism in nickel with coaxial cylinder structure at room temperature by electric double layer gating. Journal of Materials Chemistry C, 2017, 5, 10609-10614.	2.7	3
43	Transparent PVDF/PTFE/Graphene Oxide Ultrathin Films with Enhanced Energy Harvesting Performance. ChemistrySelect, 2017, 2, 7951-7955.	0.7	14
44	Epitaxial growth of BiFeO <sub>3</sub> films on SrRuO <sub>3</sub> /SrTiO <sub>3</sub> . Materials Characterization, 2017, 131, 217-223.	1.9	15
45	Electronic phase diagram of oxygen-deficient SmNiO <sub>3</sub> epitaxial thin films. Journal Physics D: Applied Physics, 2017, 50, 235302.	1.3	9
46	Identifying intrinsic ferroelectricity of thin film with piezoresponse force microscopy. AIP Advances, 2017, 7, .	0.6	42
47	Synthesis, Structure and Properties of Formamide-templated Metal Formate Crystals. Crystal Research and Technology, 2017, 52, 1700195.	0.6	3
48	Investigation of Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films with controllable Cu composition and its influence on photovoltaic properties for solar cells. Journal of Alloys and Compounds, 2017, 694, 833-840.	2.8	25
49	Structure and electrical properties of epitaxial SrRuO <sub>3</sub> thin films controlled by oxygen partial pressure. Journal of Applied Physics, 2016, 120, .	1.1	27
50	Effect of Nb and more Fe ions co-doping on the microstructures, magnetic, and piezoelectric properties of Aurivillius Bi <sub>5</sub> Ti <sub>3</sub> FeO <sub>15</sub> phases. Journal of Applied Physics, 2016, 120, .	1.1	19
51	Polarization fluctuation behavior of lanthanum substituted Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> thin films. Journal of Applied Physics, 2015, 118, 104102.	1.1	18
52	Fabrication and Dielectric Properties of Ba <sub>0.63</sub> Sr <sub>0.37</sub> TiO <sub>3</sub> Thin Films on SiC Substrates. Journal of the American Ceramic Society, 2014, 97, 3048-3051.	1.9	13
53	Electrolyte-Gated SmCoO <sub>3</sub> Thin Film Transistors Exhibiting Thickness-Dependent Large Switching Ratio at Room Temperature. Advanced Materials, 2013, 25, 2158-2161.	11.1	24
54	Phase diagram of Ca <sub>1-x</sub> Ce <sub>x</sub> MnO <sub>3</sub> thin films studied by X-ray magnetic circular dichroism. Solid State Communications, 2013, 174, 30-33.	0.9	0

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55	Strain controlled metal-insulator transition in epitaxial NdNiO <sub>3</sub> thin films. Journal of Applied Physics, 2013, 114, .	1.1	51
56	Phase diagrams of strained Ca <sub>1-x</sub> Ce <sub>x</sub> MnO <sub>3</sub> films. Journal of Applied Physics, 2012, 112, .	1.1	15
57	Strain-Mediated Phase Control and Electrolyte-Gating of Electron-Doped Manganites. Advanced Materials, 2011, 23, 5822-5827.	11.1	55
58	Tuning of the metal-insulator transition in electrolyte-gated NdNiO <sub>3</sub> thin films. Applied Physics Letters, 2010, 97, .	1.5	102
59	Phase evolution and critical behavior in strain-tuned $\text{LaMnO}_3$ Physical Review B, 2010, 81, .	1.1	32
60	Fabrication and thermoelectric properties of Ca <sub>3</sub> Co <sub>4</sub> O <sub>9</sub> /Ag composites. Journal of Alloys and Compounds, 2008, 454, 364-369.	2.8	65
61	Annealing effects on the characteristics of high T <sub>c</sub> lead-free barium titanate-based positive temperature coefficient of resistivity ceramics. Journal of Applied Physics, 2008, 104, .	1.1	29
62	Characterization of manganese-doped BaTiO <sub>3</sub> -(Bi <sub>1-x</sub> Na <sub>2x</sub> )TiO <sub>3</sub> positive temperature coefficient of resistivity ceramics using impedance spectroscopy. Journal of Applied Physics, 2008, 103, .	1.1	38
63	Positive Temperature Coefficient of Resistivity Effect of Semiconducting BaTiO <sub>3</sub> -(Bi <sub>1/2</sub> Na <sub>1/2</sub> )TiO <sub>3</sub> Ceramics Prepared by a Wet-Chemistry Route. Japanese Journal of Applied Physics, 2007, 46, 6995.	0.8	34
64	High T <sub>c</sub> lead-free BaTiO <sub>3</sub> -(Bi <sub>1-x</sub> Na <sub>2x</sub> )TiO <sub>3</sub> positive temperature coefficient of resistivity ceramics with electrically heterogeneous structure. Applied Physics Letters, 2007, 91, .	1.5	49
65	Preparation of c-axis-oriented Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> thick films by templated grain growth. Journal of the European Ceramic Society, 2007, 27, 663-667.	2.8	15
66	Preferred Orientation of Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> Thick Film. Journal of the American Ceramic Society, 2007, 90, 2753-2758.	1.9	9
67	Fabrication of Textured Bi <sub>3</sub> NbTiO <sub>9</sub> Ceramics. Journal of the American Ceramic Society, 2006, 89, 684-687.	1.9	12
68	Centrifugal Sintering of a Barium Titanate Thick Film. Journal of the American Ceramic Society, 2006, 89, 3290-3293.	1.9	4
69	Enhanced dielectric properties of bismuth titanate/silver composites. Journal of Electroceramics, 2006, 17, 861-865.	0.8	18
70	Dielectric behavior of lead zirconate titanate/silver composites. Materials Chemistry and Physics, 2006, 97, 410-414.	2.0	19
71	Effect of neodymium substitution on the growth of single crystalline Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> particles. Materials Letters, 2006, 60, 2837-2839.	1.3	7
72	Effective grain alignment in bismuth titanate ceramic by centrifugal force. Journal of Materials Research, 2006, 21, 1830-1835.	1.2	7

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73	Single-Step Calcination Synthesis Mechanism of Pure Perovskite $\text{Pb}(\text{Ni}_{1/3}\text{Nb}_{2/3})\text{O}_3$ $\text{PbTiO}_3$ Using a Coating Method. Journal of the American Ceramic Society, 2005, 88, 239-242.	1.9	5
74	Effect of rare earth additives on the microstructure and dielectric properties of $0.67\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ $0.33\text{PbTiO}_3$ ceramics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 116, 140-145.	1.7	39
75	Synthesis of layer-structured ferroelectric $\text{Bi}_3\text{NbTiO}_9$ plate-like seed crystals. Materials Letters, 2005, 59, 1876-1879.	1.3	23
76	Sintering behaviors of bismuth titanate synthesized by a coprecipitation method. Materials Letters, 2005, 59, 3590-3594.	1.3	33
77	Calcium substituting B-site in relaxor ferroelectrics with perovskite structure probed by chemical ordering. Solid State Communications, 2005, 134, 425-429.	0.9	11
78	Effect of $\text{Co}_2\text{O}_3$ Doping on the Dielectric and Tunable Properties of $\text{Ba}_{0.6}\text{Sr}_{0.4}\text{TiO}_3$ Ceramics. Japanese Journal of Applied Physics, 2004, 43, 201-204.	0.8	19
79	Grain Orientation Effects on the Properties of a Bismuth Layer-Structured Ferroelectric (BLSF) $\text{Bi}_3\text{NbTiO}_9$ Solid Solution. Journal of the American Ceramic Society, 2004, 87, 602-605.	1.9	54
80	Electrical properties of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ $\text{PbTiO}_3$ ceramics modified with $\text{WO}_3$ . Materials Research Bulletin, 2004, 39, 175-184.	2.7	34
81	Sintering behavior, mechanical and electrical properties of lead zirconate titanate/ $\text{NiO}$ composites from coated powders. Ceramics International, 2004, 30, 765-772.	2.3	22
82	Fabrication and dielectric properties of lanthanum-modified lead zirconate titanate using coprecipitation powder coating. Materials Letters, 2004, 58, 2675-2678.	1.3	12
83	Microstructure and mechanical properties of small amounts of $\text{In}_2\text{O}_3$ reinforced $\text{Pb}(\text{Zr}_x\text{Ti}_{1-x})\text{O}_3$ ceramics. Materials Research Bulletin, 2003, 38, 1147-1154.	2.7	9
84	Single-calcination synthesis of pyrochlore-free $\text{Pb}(\text{Ni}_{1/3}\text{Nb}_{2/3})\text{O}_3$ $\text{PbTiO}_3$ using a coating method. Solid State Communications, 2003, 127, 699-701.	0.9	11
85	Mechanical and electrical properties of small amount of oxides reinforced PZT ceramics. Ceramics International, 2003, 29, 499-503.	2.3	53
86	Fabrication of $\text{NiO}$ Nanoparticle-Coated Lead Zirconate Titanate Powders by the Heterogeneous Precipitation Method. Journal of the American Ceramic Society, 2003, 86, 1631-1634.	1.9	9
87	Mechanical and Electrical Properties of Small Amounts of $\text{In}_{2/3}\text{O}_3$ Reinforced PZT Ceramics. Key Engineering Materials, 2003, 249, 87-90.	0.4	0
88	Electrical Properties of $\text{La}^{3+}$ -Doped ( $\text{Na}_{0.5}\text{Bi}_{0.5}$ ) $0.94\text{Ba}_{0.06}\text{TiO}_3$ Ceramics. Japanese Journal of Applied Physics, 2003, 42, 7387-7391.	0.8	77