Ping-Hua Xiang

List of Publications by Year
in descending order

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88	2,100	236612	264894
papers	citations	25 h-index	42 g-index

90	90	90	2508
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent Progress in Twoâ€Dimensional Ferroelectric Materials. Advanced Electronic Materials, 2020, 6, 1900818.	2.6	236
2	A Robust Artificial Synapse Based on Organic Ferroelectric Polymer. Advanced Electronic Materials, 2019, 5, 1800600.	2.6	129
3	Tuning of the metal-insulator transition in electrolyte-gated NdNiO3 thin films. Applied Physics Letters, 2010, 97, .	1.5	102
4	Electrical Properties of La3+-Doped (Na0.5Bi0.5)0.94Ba0.06TiO3Ceramics. Japanese Journal of Applied Physics, 2003, 42, 7387-7391.	0.8	77
5	A Flexible Mott Synaptic Transistor for Nociceptor Simulation and Neuromorphic Computing. Advanced Functional Materials, 2021, 31, 2101099.	7.8	76
6	Fabrication and thermoelectric properties of Ca3Co4O9/Ag composites. Journal of Alloys and Compounds, 2008, 454, 364-369.	2.8	65
7	Strainâ€Mediated Phase Control and Electrolyteâ€Gating of Electronâ€Doped Manganites. Advanced Materials, 2011, 23, 5822-5827.	11.1	55
8	Grain Orientation Effects on the Properties of a Bismuth Layerâ€Structured Ferroelectric (BLSF) Bi₃NbTiO₉ Solid Solution. Journal of the American Ceramic Society, 2004, 87, 602-605.	1.9	54
9	Mechanical and electrical properties of small amount of oxides reinforced PZT ceramics. Ceramics International, 2003, 29, 499-503.	2.3	53
10	Strain controlled metal-insulator transition in epitaxial NdNiO3 thin films. Journal of Applied Physics, 2013, 114, .	1.1	51
11	High Tc lead-free BaTiO3â€“(Bi1âˆ•2Na1âˆ•2)TiO3 positive temperature coefficient of resistivity ceramics with electrically heterogeneous structure. Applied Physics Letters, 2007, 91, .	1.5	49
12	Identifying intrinsic ferroelectricity of thin film with piezoresponse force microscopy. AIP Advances, 2017, 7, .	0.6	42
13	High-speed ultraviolet photodetectors based on 2D layered CuInP2S6 nanoflakes. Applied Physics Letters, 2020, 117, .	1.5	42
14	Effect of rare earth additives on the microstructure and dielectric properties of 0.67Pb(Mg1/3Nb2/3)O3â€“0.33PbTiO3 ceramics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 116, 140-145.	1.7	39
15	Characterization of manganese-doped BaTiO3â€“(Bi1âˆ•2Na1âˆ•2)TiO3 positive temperature coefficient of resistivity ceramics using impedance spectroscopy. Journal of Applied Physics, 2008, 103, .	1.1	38
16	Electrical properties of Pb(Mg1/3Nb2/3)O3â€“PbTiO3 ceramics modified with WO3. Materials Research Bulletin, 2004, 39, 175-184.	2.7	34
17	Positive Temperature Coefficient of Resistivity Effect of Semiconducting BaTiO₃â€“(Bi_{1/2}Na_{1/2})TiO₃ Ceramics Prepared by a Wet-Chemistry Route. Japanese Journal of Applied Physics, 2007, 46, 6995.	0.8	34
18	Sintering behaviors of bismuth titanate synthesized by a coprecipitation method. Materials Letters, 2005, 59, 3590-3594.	1.3	33

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19	Phase evolution and critical behavior in strain-tuned<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>LaMnO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:m Physical Review B, 2010, 81, .	1.1	32
20	Unconventional out-of-plane domain inversion via in-plane ionic migration in a van der Waals ferroelectric. Journal of Materials Chemistry C, 2020, 8, 6966-6971.	2.7	30
21	Electric-Field-Induced Room-Temperature Antiferroelectricâ€“Ferroelectric Phase Transition in van der Waals Layered GeSe. ACS Nano, 2022, 16, 1308-1317.	7.3	30
22	Annealing effects on the characteristics of high Tc lead-free barium titanate-based positive temperature coefficient of resistivity ceramics. Journal of Applied Physics, 2008, 104, .	1.1	29
23	The preparation, and structural and multiferroic properties of B-site ordered double-perovskite Bi₂FeMnO₆. Journal of Materials Chemistry C, 2017, 5, 5494-5500.	2.7	28
24	Structure and electrical properties of epitaxial SrRuO3 thin films controlled by oxygen partial pressure. Journal of Applied Physics, 2016, 120, .	1.1	27
25	Fabrication of graphene-fullerene hybrid by self-assembly and its application as support material for methanol electrocatalytic oxidation reaction. Applied Surface Science, 2018, 440, 477-483.	3.1	27
26	Investigation of Cu2ZnSnS4 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
27	Ion adsorption-induced reversible polarization switching of a van der Waals layered ferroelectric. Nature Communications, 2021, 12, 655.	5.8	25
28	Electrolyteâ€Gated SmCoO₃ Thinâ€Film Transistors Exhibiting Thicknessâ€Dependent Large Switching Ratio at Room Temperature. Advanced Materials, 2013, 25, 2158-2161.	11.1	24
29	Synthesis of layer-structured ferroelectric Bi3NbTiO9 plate-like seed crystals. Materials Letters, 2005, 59, 1876-1879.	1.3	23
30	Sintering behavior, mechanical and electrical properties of lead zirconate titanate/NiO composites from coated powders. Ceramics International, 2004, 30, 765-772.	2.3	22
31	Ultra-flat ITO films on mica for high temperature transparent flexible electrodes. Ceramics International, 2020, 46, 2268-2272.	2.3	22
32	Ultrafast Giant Photostriction of Epitaxial Strontium Iridate Film with Superior Endurance. Nano Letters, 2018, 18, 7742-7748.	4.5	21
33	Hydrogenation Dynamics of Electrically Controlled Metalâ€“Insulator Transition in Protonâ€Gated Transparent and Flexible WO 3 Transistors. Advanced Functional Materials, 2019, 29, 1902497.	7.8	21
34	Effect of Co2O3Doping on the Dielectric and Tunable Properties of Ba0.6Sr0.4TiO3Ceramics. Japanese Journal of Applied Physics, 2004, 43, 201-204.	0.8	19
35	Dielectric behavior of lead zirconate titanate/silver composites. Materials Chemistry and Physics, 2006, 97, 410-414.	2.0	19
36	Effect of Nb and more Fe ions co-doping on the microstructures, magnetic, and piezoelectric properties of Aurivillius Bi5Ti3FeO15 phases. Journal of Applied Physics, 2016, 120, .	1.1	19

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37	Protonâ€Mediated Phase Control in Flexible and Transparent Mott Transistors. Advanced Electronic Materials, 2020, 6, 1900742.	2.6	19
38	Enhanced dielectric properties of bismuth titanate/silver composites. Journal of Electroceramics, 2006, 17, 861-865.	0.8	18
39	Polarization fluctuation behavior of lanthanum substituted Bi4Ti3O12 thin films. Journal of Applied Physics, 2015, 118, 104102.	1.1	18
40	Nonvolatile Negative Optoelectronic Memory Based on Ferroelectric Thin Films. ACS Applied Electronic Materials, 2020, 2, 1035-1040.	2.0	18
41	Ultra-wide temperature electronic synapses based on self-rectifying ferroelectric memristors. Nanotechnology, 2019, 30, 464001.	1.3	17
42	Ferroelectric polarization-controlled resistive switching in BaTiO3/SmNiO3 epitaxial heterostructures. Applied Physics Letters, 2019, 114, .	1.5	16
43	Preparation of c-axis-oriented Bi4Ti3O12 thick films by templated grain growth. Journal of the European Ceramic Society, 2007, 27, 663-667.	2.8	15
44	Phase diagrams of strained Ca1â€“xCexMnO3 films. Journal of Applied Physics, 2012, 112, .	1.1	15
45	Epitaxial growth of BiFeO 3 films on SrRuO 3 /SrTiO 3. Materials Characterization, 2017, 131, 217-223.	1.9	15
46	Transparent PVDFâ€TrFE/Graphene Oxide Ultrathin Films with Enhanced Energy Harvesting Performance. ChemistrySelect, 2017, 2, 7951-7955.	0.7	14
47	Mediation in the second-order synaptic emulator with conductive atomic force microscopy. Nanoscale, 2019, 11, 8744-8751.	2.8	14
48	Mechanical Polarization Switching in Hf_{0.5}Zr_{0.5}O₂ Thin Film. Nano Letters, 2022, 22, 4792-4799.	4.5	14
49	Fabrication and Dielectric Properties of <scp><scp>Ba</scp></scp>_{0.63}<scp><scp>Sr</scp></scp>_{0.37}<scp><scp>TiO</scp></scp>₃ Thin Films on <scp><scp>SiC</scp></scp> Substrates. Journal of the American Ceramic Society, 2014, 97, 3048-3051.	1.9	13
50	Reversible transition of filamentary and ferroelectric resistive switching in BaTiO₃/SmNiO₃ heterostructures. Journal of Materials Chemistry C, 2020, 8, 5815-5820.	2.7	13
51	Fabrication and dielectric properties of lanthanum-modified lead zirconate titanate using coprecipitation powder coating. Materials Letters, 2004, 58, 2675-2678.	1.3	12
52	Fabrication of Textured Bi3NbTiO9 Ceramics. Journal of the American Ceramic Society, 2006, 89, 684-687.	1.9	12
53	Single-calcination synthesis of pyrochlore-free Pb(Ni1/3Nb2/3)O3â€“PbTiO3 using a coating method. Solid State Communications, 2003, 127, 699-701.	0.9	11
54	Calcium substituting B-site in relaxor ferroelectrics with perovskite structure probed by chemical ordering. Solid State Communications, 2005, 134, 425-429.	0.9	11

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55	Nanoscale Mapping of Cuâ€Ion Transport in van der Waals Layered CuCrP₂S₆. Advanced Materials Interfaces, 2022, 9, .	1.9	11
56	Flexoelectric effect induced pâ€“n homojunction in monolayer GeSe. 2D Materials, 2022, 9, 035005.	2.0	11
57	Strategic improvement of Cu2SnS3 thin film by different heating rates and photoluminescence investigation. Materials Science in Semiconductor Processing, 2018, 84, 124-130.	1.9	10
58	Microstructure and mechanical properties of small amounts of In2O3 reinforced Pb(ZrxTi1âˆ'x)O3 ceramics. Materials Research Bulletin, 2003, 38, 1147-1154.	2.7	9
59	Fabrication of NiO Nanoparticleâ€Coated Lead Zirconate Titanate Powders by the Heterogeneous Precipitation Method. Journal of the American Ceramic Society, 2003, 86, 1631-1634.	1.9	9
60	Preferred Orientation of Bi4Ti3O12Thick Film. Journal of the American Ceramic Society, 2007, 90, 2753-2758.	1.9	9
61	Electronic phase diagram of oxygen-deficient SmNiO_{3âˆ'Î´}epitaxial thin films. Journal Physics D: Applied Physics, 2017, 50, 235302.	1.3	9
62	Probing the origins of electroresistance switching behavior in ferroelectric thin films. Applied Physics Letters, 2019, 115, .	1.5	9
63	Effect of Ce doping on the structural, transport and magnetic properties of Sr₂IrO₄ epitaxial films. Journal Physics D: Applied Physics, 2021, 54, 405304.	1.3	9
64	Leakage mechanisms of double-perovskite Bi₂FeMnO₆epitaxial thin films. Journal Physics D: Applied Physics, 2018, 51, 045304.	1.3	8
65	Strain-controlled electrical and magnetic properties of SrRuO3 thin films with Sr3Al2O6 buffer layers. Applied Physics Letters, 2021, 118, .	1.5	8
66	Effect of neodymium substitution on the growth of single crystalline Bi4Ti3O12 particles. Materials Letters, 2006, 60, 2837-2839.	1.3	7
67	Effective grain alignment in bismuth titanate ceramic by centrifugal force. Journal of Materials Research, 2006, 21, 1830-1835.	1.2	7
68	Revealing a high-density three-dimensional Ruddlesdenâ€“Popper-type fault network in an SmNiO3 thin film. Journal of Materials Research, 2021, 36, 1637-1645.	1.2	7
69	Structure dependence of ferroelectricity in high quality <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BiMnO</mml:mi><mml:mn>3</mml:mn></mml:msub> epitaxial films. Physical Review Materials, 2019, 3, .	1.9	7
70	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
71	Van der Waals epitaxy for high-quality flexible VO2 film on mica substrate. Journal of Applied Physics, 2021, 130, 025301.	1.1	6
72	Singleâ€Calcination Synthesis Mechanism of Pureâ€Perovskite Pb(Ni_{1/3}Nb_{2/3})O₃â€PbTiO₃ Using a Coating Method. Journal of the American Ceramic Society, 2005, 88, 239-242.	1.9	5

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73	Ferroelectric domain structure of Bi2FeCrO6 multiferroic thin films. Journal of Applied Physics, 2020, 128, 234103.	1.1	5
74	Centrifugal Sintering of a Barium Titanate Thick Film. Journal of the American Ceramic Society, 2006, 89, 3290-3293.	1.9	4
75	Raman Spectra of Bulk and Few-Layer GeSe From First-Principles Calculations. Frontiers in Materials, 2021, 8, .	1.2	4
76	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
77	Synthesis, Structure and Properties of Formamidineâ€templated Metal Formate Crystals. Crystal Research and Technology, 2017, 52, 1700195.	0.6	3
78	Ferroelectric Synapses: A Robust Artificial Synapse Based on Organic Ferroelectric Polymer (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	2.8	3
79	Ferroelectric control of pseudospin texture in CuInP₂S₆ monolayer. Journal of Physics Condensed Matter, 2022, 34, 204001.	0.7	3
80	Topological Hall effect in SrRuO₃ thin films and heterostructures. Journal of Physics Condensed Matter, 2022, 34, 244001.	0.7	3
81	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
82	Injection charge dynamics on the Pb(Zr0.52Ti0.48)O3 surface by scanning probe microscopy. Journal of Applied Physics, 2020, 128, 184104.	1.1	2
83	Electrostatic-doping-controlled phase separation in electron-doped manganites. Applied Physics Letters, 2020, 117, .	1.5	2
84	Strain-engineering on GeSe: Raman spectroscopy study. Physical Chemistry Chemical Physics, 2021, 23, 26997-27004.	1.3	2
85	Mechanical and Electrical Properties of Small Amounts of In₂O₃ Reinforced PZT Ceramics. Key Engineering Materials, 2003, 249, 87-90.	0.4	0
86	Phase diagram of Ca1â^'Ce MnO3 thin films studied by X-ray magnetic circular dichroism. Solid State Communications, 2013, 174, 30-33.	0.9	0
87	Unusual magnetic transitions and phonon instabilities in tetragonal SrIrO3 under epitaxial strain. Journal of Magnetism and Magnetic Materials, 2021, 522, 167547.	1.0	0
88	Ferro-electric and magnetic properties in Bi₅Ti₃FeO₁₅ films by Mn doping. Journal of Materials Chemistry C, 2022, 10, 1003-1009.	2.7	0