Feng Chen

List of Publications by Year
in descending order

48 papers	836 citations	567281 15 h-index	501196 28 g-index
48 all docs	48 docs citations	48 times ranked	1362 citing authors

#	Article	IF	Citations
1	Polarization dependence of Schottky barrier heights at interfaces of ferroelectrics determined by photoelectron spectroscopy. Physical Review B, 2012, 86, .	3.2	74
2	All-oxideâ€“based synthetic antiferromagnets exhibiting layer-resolved magnetization reversal. Science, 2017, 357, 191-194.	12.6	73
3	Intrinsic energy band alignment of functional oxides. Physica Status Solidi - Rapid Research Letters, 2014, 8, 571-576.	2.4	60
4	PbTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>/SrTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>interface: En	3.2	59
5	Excellent spin transport in spin valves based on the conjugated polymer with high carrier mobility. Scientific Reports, 2015, 5, 9355.	3.3	50
6	Reduction-induced Fermi level pinning at the interfaces between Pb(Zr,Ti)O₃ and Pt, Cu and Ag metal electrodes. Journal Physics D: Applied Physics, 2011, 44, 255301.	2.8	43
7	Barrier heights, polarization switching, and electrical fatigue in Pb(Zr,Ti)O3 ceramics with different electrodes. Journal of Applied Physics, 2010, 108, .	2.5	39
8	Polarization switching and fatigue in Pb(Zr0.52Ti0.48)O3 films sandwiched by oxide electrodes with different carrier types. Applied Physics Letters, 2007, 90, 192907.	3.3	37
9	Formation and modification of Schottky barriers at the PZT/Pt interface. Journal Physics D: Applied Physics, 2009, 42, 215302.	2.8	36
10	Intergranular Stress Induced Phase Transition in CaZrO₃ Modified KNNâ€Based Leadâ€Free Piezoelectrics. Journal of the American Ceramic Society, 2015, 98, 1372-1376.	3.8	36
11	Refreshing Piezoelectrics: Distinctive Role of Manganese in Lead-Free Perovskites. ACS Applied Materials & Interfaces, 2018, 10, 37298-37306.	8.0	36
12	Transparent and conductive oxide films of the perovskite La_xSr_{1â^'x}SnO₃ (x â©½ 0.15): epitaxial growth and application for transparent heterostructures. Journal Physics D: Applied Physics, 2010, 43, 035403.	2.8	21
13	Anisotropic-strain-controlled metal-insulator transition in epitaxial NdNiO3 films grown on orthorhombic NdGaO3 substrates. Applied Physics Letters, 2013, 103, .	3.3	21
14	Uniaxial Strain-Controlled Ground States in Manganite Films. Nano Letters, 2020, 20, 1131-1140.	9.1	21
15	Screening of Nanobody Specific for Peanut Major Allergen Ara h 3 by Phage Display. Journal of Agricultural and Food Chemistry, 2019, 67, 11219-11229.	5.2	20
16	Tuning electrical properties and phase transitions through strain engineering in lead-free ferroelectric K0.5Na0.5NbO3-LiTaO3-CaZrO3 thin films. Applied Physics Letters, 2019, 115, .	3.3	15
17	Effect of electrode configurations on the process-induced imprint behavior of epitaxial Pb(Zr0.52Ti0.48)O3 capacitors. Applied Physics Letters, 2010, 96, .	3.3	14
18	Electrochemical Reduction of Undoped and Cobalt-Doped BiFeO₃ Induced by Water Exposure: Quantitative Determination of Reduction Potentials and Defect Energy Levels Using Photoelectron Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 7071-7076.	4.6	14

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19	Robust Ferroelectric Properties in (K,Na)NbO₃-Based Lead-Free Films via a Self-Assembled Nanocomposite Approach. ACS Applied Materials & Interfaces, 2020, 12, 4616-4624.	8.0	14
20	Ferroelectric, dielectric and leakage current properties of epitaxial (K,Na)NbO3-LiTaO3-CaZrO3 thin films. Journal of Electroceramics, 2015, 34, 249-254.	2.0	12
21	Interfacial Control of Ferromagnetism in Ultrathin La_{0.67}Ca_{0.33}MnO₃ Sandwiched between CaRu_{1â€“x}Ti_xO₃ (x = 0â€“0.8) Epilayers. ACS Applied Materials & Interfaces, 2016, 8, 34924-34932.	8.0	12
22	Structural mechanism of DNA recognition by the p204 HIN domain. Nucleic Acids Research, 2021, 49, 2959-2972.	14.5	11
23	Control of ferromagnetism and magnetic anisotropy via tunable electron correlation and spin-orbital coupling in La0.67Ca0.33MnO3/Ca(Ir,Ru)O3 superlattices. Applied Physics Letters, 2018, 113, 231601.	3.3	10
24	Quantitative study of spin relaxation in rubrene thin films by inverse spin Hall effect. Applied Physics Letters, 2019, 115, 053301.	3.3	10
25	Enhanced Spin Transport of Conjugated Polymer in the Semiconductor/Insulating Polymer Blend. ACS Applied Materials & Interfaces, 2020, 12, 2708-2716.	8.0	10
26	Energy band alignment at ferroelectric/electrode interface determined by photoelectron spectroscopy. Chinese Physics B, 2014, 23, 017702.	1.4	8
27	Antiferromagnetic interlayer exchange coupling in all-perovskite La0.7Sr0.3MnO3/SrRu1-xTixO3 superlattices. Applied Physics Letters, 2017, 110, .	3.3	8
28	Fabrication of epitaxial and transparent Pb(Zr0.52Ti0.48)O3 ferroelectric capacitors with La0.07Sr0.93SnO3 electrodes. Applied Physics Letters, 2007, 90, 082904.	3.3	7
29	Synthetic Antiferromagnets with Steplike Hysteresis Loops and High- T_C Based on All-Perovskite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mn>0.7</mml:mn></mml:mrow></mml:msub><mml:msub><mml:msub> mathvariant="normal">O</mml:mi></mml:mrow></mml:mrow><mml:mn>3</mml:mn></mml:msub></mm. Physical Review Applied, 2018, 10, .	4.6	7
30	Fabrication of the transparent ferroelectric heterostructures based on KNN-based lead-free films. Journal Physics D: Applied Physics, 2020, 53, 415301.	2.8	7
31	Asymmetric interfaces and high-TC ferromagnetic phase in La0.67Ca0.33MnO3/SrRuO3 superlattices. Nano Research, 2021, 14, 3621-3628.	10.4	6
32	X-ray crystal structure of putative transcription regulator lmo2088 from Listeria monocytogenes. Biochemical and Biophysical Research Communications, 2019, 520, 434-440.	2.1	5
33	Interfacial Engineering of Ferromagnetism in Epitaxial Manganite/Ruthenate Superlattices via Interlayer Chemical Doping. ACS Applied Materials & Interfaces, 2019, 11, 10399-10408.	8.0	5
34	Enhancing the orthorhombicity and antiferromagnetic-insulating state in epitaxial La0.67Ca0.33MnO3/NdGaO3(001) films by inserting a SmFeO3 buffer layer. Journal of Applied Physics, 2014, 116, 203706.	2.5	4
35	Tuning antiferromagnetic interlayer exchange coupling in La0.67Ca0.33MnO3-based synthetic antiferromagnets. APL Materials, 2019, 7, .	5.1	4
36	Genetically encoded FRET fluorescent sensor designed for detecting MOF histone acetyltransferase activity in vitro and in living cells. Analytical and Bioanalytical Chemistry, 2021, 413, 5453-5461.	3.7	4

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37	Enhanced conductivity and metalâ€“insulator transition of ultrathin CaRuO₃in superlattices. Materials Research Express, 2016, 3, 126403.	1.6	3
38	Influence of growth oxygen pressure on the electrical properties and phase transformation of the epitaxial (K,Na)NbO3-based lead-free ferroelectric films. Journal of Applied Physics, 2021, 129, .	2.5	3
39	Comparative study on the roles of anisotropic epitaxial strain and chemical doping in inducing the antiferromagnetic insulator phase in manganite films. Physical Review Materials, 2017, 1, .	2.4	3
40	Structural and electrical properties of epitaxial perovskite CaIr1â^'xRuxO3 thin films. Journal of Applied Physics, 2018, 124, 125308.	2.5	2
41	Purification, Characterization, and Crystal Structure of Parvalbumins, the Major Allergens in Mustelus griseus. Journal of Agricultural and Food Chemistry, 2018, 66, 8150-8159.	5.2	2
42	Anisotropic terahertz transmission induced by the external magnetic field in La0.67Ca0.33MnO3 film. Structural Dynamics, 2021, 8, 054301.	2.3	2
43	Structure and mutation analysis of the hexameric P4 from Pseudomonas aeruginosa phage phiYY. International Journal of Biological Macromolecules, 2022, 194, 42-49.	7.5	2
44	CaZrO₃-Mediated Structural Instability and Electrical Properties in Doped Ferroelectric (K,Na)NbO₃-LiTaO₃ Films. ACS Applied Electronic Materials, 2022, 4, 1250-1256.	4.3	2
45	Effect of neutron irradiation on (K,Na,Li)(Ta,Nb)O3-CaZrO3 lead-free ferroelectric thin film with different oxide electrodes. Journal of Alloys and Compounds, 2019, 788, 30-35.	5.5	1
46	Effect of gamma irradiation on (K,Na,Li)(Ta,Nb)O3â€“CaZrO3 lead-free ferroelectric film grown on La0.67Ba0.33MnO3 and La0.67Ca0.33MnO3 conductive oxide electrode. Journal of Alloys and Compounds, 2020, 826, 152148.	5.5	1
47	Misfit Relaxation Mechanisms and Domain Ordering in Anisotropically Strained Manganite Thin Films. ACS Applied Materials & Interfaces, 2020, 12, 43281-43288.	8.0	1
48	Electrical property and phase transition analysis of KNN-based lead-free ferroelectric films. Materials Research Express, 2022, 9, 056403.	1.6	1