Jinbin Wang

List of Publications by Year
in descending order

103	2,298	186265	254184
papers	citations	28 h-index	43 g-index

104	104	104	3100
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis, structure, and room-temperature ferromagnetism of Ni-doped ZnO nanoparticles. Journal of Materials Science, 2007, 42, 6464-6468.	3.7	114
2	One-pot synthesis of mesoporous interconnected carbon-encapsulated Fe3O4 nanospheres as superior anodes for Li-ion batteries. RSC Advances, 2012, 2, 2262.	3.6	103
3	Organicâ€“Inorganic Copper(II)-Based Material: A Low-Toxic, Highly Stable Light Absorber for Photovoltaic Application. Journal of Physical Chemistry Letters, 2017, 8, 1804-1809.	4.6	103
4	Work function tunable laser induced graphene electrodes for Schottky type solar-blind photodetectors. Applied Physics Letters, 2022, 120, .	3.3	95
5	(C₆H₅CH₂NH₃)₂CuBr₄: A Lead-Free, Highly Stable Two-Dimensional Perovskite for Solar Cell Applications. ACS Applied Energy Materials, 2018, 1, 2709-2716.	5.1	73
6	Self-assembled porous hierarchical-like CoO@C microsheets transformed from inorganicâ€“organic precursors and their lithium-ion battery application. CrystEngComm, 2012, 14, 2669.	2.6	67
7	Gram-scale and template-free synthesis of ultralong tin disulfide nanobelts and their lithium ion storage performances. Journal of Materials Chemistry A, 2013, 1, 1117-1122.	10.3	61
8	Flexible electronic synapse enabled by ferroelectric field effect transistor for robust neuromorphic computing. Applied Physics Letters, 2020, 117, .	3.3	57
9	Epitaxial array of Fe3O4 nanodots for high rate high capacity conversion type lithium ion batteries electrode with long cycling life. Nano Energy, 2020, 74, 104876.	16.0	51
10	Revealing the structural, electronic and optical properties of lead-free perovskite derivatives of Rb2SnX6(Xâ€¯=â€¯Cl, Br and I): A theory calculation. Solar Energy, 2019, 190, 272-277.	6.1	50
11	Creating polar antivortex in PbTiO3/SrTiO3 superlattice. Nature Communications, 2021, 12, 2054.	12.8	50
12	Atomic imaging of mechanically induced topological transition of ferroelectric vortices. Nature Communications, 2020, 11, 1840.	12.8	49
13	Solvothermal Synthesis of Uniform Co₃O₄/C Hollow Quasiâ€Nanospheres for Enhanced Lithium Ion Intercalation Applications. European Journal of Inorganic Chemistry, 2012, 2012, 3825-3829.	2.0	47
14	The coexistence of the negative and positive electrocaloric effect in ferroelectric thin films for solid-state refrigeration. Europhysics Letters, 2013, 102, 47004.	2.0	46
15	Magnetism mechanism in ZnO and ZnO doped with nonmagnetic elements X (Xâ€‰=â€‰Li, Mg, and Al): A first-principles study. Applied Physics Letters, 2012, 100, .	3.3	44
16	Deterministic, Reversible, and Nonvolatile Low-Voltage Writing of Magnetic Domains in Epitaxial BaTiO₃/Fe₃O₄ Heterostructure. ACS Nano, 2018, 12, 9558-9567.	14.6	43
17	A ferroelectric memristor based on the migration of oxygen vacancies. RSC Advances, 2016, 6, 54113-54118.	3.6	41
18	Atomic-scale observations of electrical and mechanical manipulation of topological polar flux closure. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18954-18961.	7.1	41

#	Article	IF	Citations
19	Radiation tolerance of perovskite solar cells under gamma ray. Organic Electronics, 2019, 71, 79-84.	2.6	40
20	Room temperature electrocaloric effect on PbZr0.8Ti0.2O3 thin film. Journal of Applied Physics, 2010, 107, 014109.	2.5	37
21	Î±-In₂Se₃ Nanoflakes Modulated by Ferroelectric Polarization and Pt Nanodots for Photodetection. ACS Applied Nano Materials, 2019, 2, 4443-4450.	5.0	34
22	Highly Robust Flexible Ferroelectric Field Effect Transistors Operable at High Temperature with Lowâ€Power Consumption. Advanced Functional Materials, 2020, 30, 1906131.	14.9	32
23	Facile synthesis of layered LiV3O8 hollow nanospheres as superior cathode materials for high-rate Li-ion batteries. RSC Advances, 2012, 2, 10470.	3.6	31
24	Subunit cellâ€“level measurement of polarization in an individual polar vortex. Science Advances, 2019, 5, eaav4355.	10.3	31
25	Highly transparent, all-oxide, heteroepitaxy ferroelectric thin film for flexible electronic devices. Applied Surface Science, 2018, 458, 540-545.	6.1	30
26	Improved ferroelectric properties of bismuth titanate films by Nd and Mn cosubstitution. Applied Physics Letters, 2007, 90, 012906.	3.3	29
27	Enhanced electrocaloric effect in a Ba(1â^'x)SrxTiO3 compositionally graded film. RSC Advances, 2014, 4, 24533.	3.6	29
28	An ultrathin flexible electronic device based on the tunneling effect: a flexible ferroelectric tunnel junction. Journal of Materials Chemistry C, 2018, 6, 5193-5198.	5.5	29
29	Temperature dependence of polarization switching properties of Bi3.15Nd0.85Ti3O12 ferroelectric thin film. Journal of Applied Physics, 2011, 110, .	2.5	28
30	Shape-controlled hydrothermal synthesis of ferroelectric Bi4Ti3O12 nanostructures. CrystEngComm, 2013, 15, 1397.	2.6	27
31	An extremely high power factor in Seebeck effects based on a new n-type copper-based organic/inorganic hybrid C₆H₄NH₂CuBr₂I film with metal-like conductivity. Journal of Materials Chemistry A, 2017, 5, 13834-13841.	10.3	27
32	Î³-ray Radiation on Flexible Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 7318-7324.	5.1	27
33	Novel synthesis of V2O5 hollow microspheres for lithium ion batteries. Science China Materials, 2016, 59, 567-573.	6.3	26
34	Tuning Fe concentration in epitaxial gallium ferrite thin films for room temperature multiferroic properties. Acta Materialia, 2018, 145, 488-495.	7.9	26
35	In-Plane Strain-Modulated Photoresponsivity of the Î±-In₂Se₃-Based Flexible Transistor. ACS Applied Electronic Materials, 2020, 2, 140-146.	4.3	26
36	Solution-processed Y-doped SnSrO3 electron transport layer for Ga2O3 based heterojunction solar-blind photodetector with high sensitivity. Vacuum, 2022, 201, 111064.	3.5	26

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37	Spatial distribution of manganese and room temperature ferromagnetism in manganese-doped ZnO nanorods. Applied Physics Letters, 2008, 93, .	3.3	25
38	Giant electrocaloric effects in ferroelectric nanostructures with vortex domain structures. RSC Advances, 2013, 3, 7928.	3.6	25
39	Characterization of domain distributions by second harmonic generation in ferroelectrics. Npj Computational Materials, 2018, 4, .	8.7	25
40	TiO2 nanorod arrays/ZnO nanosheets heterostructured photoanode for quantum-dot-sensitized solar cells. Solar Energy, 2018, 166, 371-378.	6.1	22
41	A ferroelectric tunnel junction based on the piezoelectric effect for non-volatile nanoferroelectric devices. Journal of Materials Chemistry C, 2013, 1, 418-421.	5.5	21
42	Enhanced room temperature electrocaloric effect in barium titanate thin films with diffuse phase transition. RSC Advances, 2014, 4, 21826.	3.6	21
43	Influence of vortex domain switching on the electrocaloric property of a ferroelectric nanoparticle. RSC Advances, 2014, 4, 30211.	3.6	21
44	Resistive switching behavior in Î±-In₂Se₃ nanoflakes modulated by ferroelectric polarization and interface defects. RSC Advances, 2019, 9, 30565-30569.	3.6	21
45	Switchable photoelectrochemical response controlled by ferroelectric polarization in (101)-oriented Pb(Zr0.2Ti0.8)O3 thin film. Materials and Design, 2017, 129, 186-191.	7.0	20
46	Flexible resistive switching device based on the TiO2 nanorod arrays for non-volatile memory application. Journal of Alloys and Compounds, 2020, 822, 153552.	5.5	20
47	Engineering polar vortex from topologically trivial domain architecture. Nature Communications, 2021, 12, 4620.	12.8	20
48	MoS 2 nanosheets uniformly coated TiO 2 nanowire arrays with enhanced electrochemical performances for lithium-ion batteries. Journal of Alloys and Compounds, 2018, 758, 91-98.	5.5	18
49	Negative differential resistance effect in resistive switching devices based on h-LuFeO₃/CoFe₂O₄ heterojunctions. Physical Chemistry Chemical Physics, 2020, 22, 5819-5825.	2.8	17
50	Electronic properties and chemical trends of the arsenicin situimpurities in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Hg</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow><mml:mi mathvariant="normal">Cd</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi mathvariant="normal">Te</mml:mi></mml:mrow></mml:math>: First-principles study. Physical Review B, 2007, 76, .	3.2	15
51	Effect of surface tension on electrocaloric effects in the ferroelectric nanomaterial with vortex domain structures. Journal of Applied Physics, 2013, 114, 044301.	2.5	14
52	Hierarchical micro-mesoporous carbon prepared from waste cotton textile for lithium-sulfur batteries. Ionics, 2019, 25, 4057-4066.	2.4	14
53	Improved Response/Recovery Time and Sensitivity of SnSe Nanosheet Humidity Sensor by LiCl Incorporation. Advanced Electronic Materials, 2020, 6, 1901330.	5.1	14
54	Piezoresponse force microscopy observation of domain switching in Bi3.15Nd0.85Ti3O12 thin film prepared by pulsed laser deposition. Journal of Applied Physics, 2011, 110, 054105.	2.5	13

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55	Domain wall contribution to the electrocaloric effect in BaTiO3 nanoparticle: a phase-field investigation. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	13
56	Preparation of Cu2ZnSnS4 thin films using spin-coating method with thermolysis and annealing. Journal of Sol-Gel Science and Technology, 2015, 73, 452-459.	2.4	13
57	Highly Ordered SnO2 Nanopillar Array as Binder-Free Anodes for Long-Life and High-Rate Li-Ion Batteries. Nanomaterials, 2021, 11, 1307.	4.1	12
58	Ionization effect and displacement effect induced photoresponsivity degradation on Î±-In2Se3 based transistors for photodetectors. Radiation Physics and Chemistry, 2020, 174, 108969.	2.8	12
59	Surface-step-terrace tuned second-order nonlinear optical coefficients of epitaxial ferroelectric BaTiO₃ films. Journal of Materials Chemistry C, 2018, 6, 11679-11685.	5.5	11
60	Enhanced electromagnon excitations in Nd-doped BiFeO₃ nanoparticles near morphotropic phase boundaries. Physical Chemistry Chemical Physics, 2019, 21, 21381-21388.	2.8	11
61	Large resistive switching in Pt/BNT/HfO₂/Pt capacitors. RSC Advances, 2014, 4, 50891-50896.	3.6	10
62	Investigation of multilevel data storage in silicon-based polycrystalline ferroelectric tunnel junction. Scientific Reports, 2017, 7, 4525.	3.3	10
63	Crystallographically engineered hierarchical polydomain nanostructures in perovskite ferroelectric films. Acta Materialia, 2019, 171, 282-290.	7.9	10
64	The total dose effect of Î³-ray induced domain evolution on Î±-In₂Se₃ nanoflakes. Physical Chemistry Chemical Physics, 2020, 22, 7160-7164.	2.8	10
65	Switchable diode effect in polycrystalline Bi3.15Nd0.85Ti3O12 thin films for resistive memories. Applied Physics Letters, 2013, 103, .	3.3	9
66	A neutron irradiation-induced displacement damage of indium vacancies in Î±-In₂Se₃ nanoflakes. Physical Chemistry Chemical Physics, 2020, 22, 15799-15804.	2.8	9
67	Mechanical Manipulation of Nanoâ€Twinned Ferroelectric Domain Structures for Multilevel Data Storage. Advanced Functional Materials, 2021, 31, 2011029.	14.9	9
68	Role of oxygen vacancies in the origin of ferromagnetism in Mnâ€doped ZnO. Crystal Research and Technology, 2011, 46, 1250-1256.	1.3	8
69	ZnO propeller-like nanostructures and the influence of carriers on field emission. Journal of Materials Science: Materials in Electronics, 2011, 22, 724-727.	2.2	7
70	Theory prediction of PC3 monolayer as a promising anode material in potassium-ion batteries. Ionics, 2021, 27, 2465-2471.	2.4	7
71	Ferromagnetism Study in ZnO Codoped with Al and Co from First-Principles Calculations. Journal of Physical Chemistry C, 2011, 115, 24478-24484.	3.1	6
72	Thermally activated polarization dynamics under the effects of lattice mismatch strain and external stress in ferroelectric film. Journal of Applied Physics, 2012, 112, 014112.	2.5	6

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73	Ferroelectric-gate thin-film transistors with Bi_{3.15}Nd_{0.85}Ti₃O₁₂ gate insulators on LaNiO₃-buffered Si substrates. RSC Advances, 2014, 4, 60497-60501.	3.6	6
74	Switchable Cu₂O/WO_x pâ€“n junction for high density crossbar arrays. RSC Advances, 2016, 6, 102603-102607.	3.6	6
75	Study of photovoltaic performance of Sb2S3/CdS quantum dot co-sensitized solar cells fabricated using iodine-based gel polymer electrolytes. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	6
76	Effect of interfacial delamination on coating crack in thick diamond-like carbon coatings under indentation. Acta Mechanica Sinica/Lixue Xuebao, 2020, 36, 524-535.	3.4	6
77	Electrically driven motion, destruction, and chirality change of polar vortices in oxide superlattices. Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	5.1	6
78	COMPARISON OF FERROELECTRIC PROPERTIES OF COSUBSTITUTED BISMUTH TITANATE FILMS BETWEEN Bi_{3.15}Nd_{0.85}Ti_{2.97}Mg<sub>0.03</su AND Bi_{3.15}Nd_{0.85}Ti_{2.95}Mn<sub>0.05</su Surface Review and Letters, 2009, 16, 153-156.	1.1	5
79	Multi-channel ferroelectric-gate field effect transistors with excellent performance based on ZnO nanofibers. RSC Advances, 2014, 4, 54924-54927.	3.6	5
80	Influence of 90Â° charged domain walls on the electrocaloric effect in PbTiO3 ferroelectric thin films. Journal of Applied Physics, 2016, 120, 214105.	2.5	5
81	Epitaxial growth and magnetic properties of h-LuFeO3 thin films. Journal of Materials Science, 2017, 52, 13879-13885.	3.7	5
82	Effects of physical properties of N-doped carbon on carbon/N-doped carbon/sulfur composite cathodes. Ionics, 2021, 27, 3271.	2.4	5
83	Proton-Induced Effect on AlGaN/GaN HEMTs After Hydrogen Treatment. IEEE Transactions on Device and Materials Reliability, 2021, 21, 297-302.	2.0	5
84	Zn/Mg co-alloyed for higher photoelectric performance and unchanged spectral response in Î²-Ga2O3 solar-blind photodetector. Journal Physics D: Applied Physics, 2022, 55, 035103.	2.8	5
85	Super-flexibility in Freestanding Single-Crystal SrRuO₃ Conductive Oxide Membranes. ACS Applied Electronic Materials, 2022, 4, 2987-2992.	4.3	5
86	Size effect on the ultrathin ferroelectric film directly grown on silicon for electronic devices. RSC Advances, 2013, 3, 24362.	3.6	4
87	Self-assembling epitaxial growth of a single crystalline CoFe₂O₄ nanopillar array via dual-target pulsed laser deposition. Journal of Materials Chemistry C, 2018, 6, 4854-4860.	5.5	4
88	The electronic, elastic and thermodynamic properties of carbon-and nitrogen-doped Hf2PB: a theoretical approach. Materials Research Express, 2019, 6, 056507.	1.6	4
89	Realization of a Flexible Humidity Sensor Based on Î±â€in ₂ Se ₃ Nanosheets. ChemNanoMat, 2022, 8, .	2.8	4
90	Electrically Controlled Wavelength-Tunable Photoluminescence from van der Waals Heterostructures. ACS Applied Materials & Interfaces, 2022, 14, 19869-19877.	8.0	4

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91	First-principles investigation on the thickness-dependent optoelectronic properties of two-dimensional perovskite BA2SnI4. Physica B: Condensed Matter, 2021, 616, 413070.	2.7	3
92	Voltage pulse controlling multilevel data ferroelectric storage memory with a nonepitaxial ultrathin film. RSC Advances, 2016, 6, 80011-80016.	3.6	2
93	Investigation of multilevel data memory using filament and polarization control. RSC Advances, 2016, 6, 81789-81793.	3.6	2
94	Unipolar resistive switching in porous perovskite-like Bi3.15Nd0.85Ti3O12 thin films. Journal of Materials Science: Materials in Electronics, 2018, 29, 6660-6665.	2.2	2
95	The resistive switching behaviors of a flexible device based on a SrTiO₃film. Europhysics Letters, 2019, 127, 26001.	2.0	2
96	Polar and Nonpolar Matrix Consisting of Twined Multiwalled Carbon Nanotube and High Nitrogenâ€Doped Porous Carbon Derived from Ionic Liquid for Stable Liâ€S Battery. Energy Technology, 2019, 7, 1900470.	3.8	2
97	Giant caloric effects enhanced by the helix polarization at the 180Â° domain wall in tetragonal BaTiO3. Journal of Physics Condensed Matter, 2019, 31, 495702.	1.8	2
98	Influence of charge accumulation at the grain boundary on the electrical behavior of a ferroelectric field-effect transistor. AIP Advances, 2018, 8, 105027.	1.3	1
99	Ferroelectric Field Effect Transistors: Highly Robust Flexible Ferroelectric Field Effect Transistors Operable at High Temperature with Lowâ€Power Consumption (Adv. Funct. Mater. 1/2020). Advanced Functional Materials, 2020, 30, 2070005.	14.9	1
100	An Effective Strategy for Photoelectric Performance Enhancement of 2D Perovskite via Halogenating Organic Cation: A Theoretical Prediction. Physica Status Solidi (B): Basic Research, 2020, 257, 1900599.	1.5	1
101	Synthesis, structure, and room-temperature ferromagnetism of Ni-doped ZnO nanoparticles. , 2007, 42, 6464.		1
102	Pore-making ionic liquid drived carbon as polar mixture for carbon/sulfur composite cathodes. Ionics, 2020, 26, 2949-2957.	2.4	0
103	Improved thermal stability of AlCrSiN coatings base on the template effect of TiAlN layer. Surface Engineering, 2022, 38, 37-43.	2.2	0