

Yu Wang

List of Publications by Year in descending order

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330
papers

13,065
citations

36303

51
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30087

103
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330
docs citations

330
times ranked

17830
citing authors

#	ARTICLE	IF	CITATIONS
1	Large Electrocaloric Effect in Ferroelectric Polymers Near Room Temperature. <i>Science</i> , 2008, 321, 821-823.	12.6	1,004
2	Superparamagnetic Colloids: Controlled Synthesis and Niche Applications. <i>Advanced Materials</i> , 2007, 19, 33-60.	21.0	884
3	Coupled molybdenum carbide and reduced graphene oxide electrocatalysts for efficient hydrogen evolution. <i>Nature Communications</i> , 2016, 7, 11204.	12.8	803
4	WO ₃ nanorods/graphene nanocomposites for high-efficiency visible-light-driven photocatalysis and NO ₂ gas sensing. <i>Journal of Materials Chemistry</i> , 2012, 22, 8525.	6.7	484
5	Large area, continuous, few-layered graphene as anodes in organic photovoltaic devices. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	394
6	Magnetoelectric CoFe ₂ O ₄ /Pb(Zr,Ti)O ₃ composite thin films derived by a sol-gel process. <i>Applied Physics Letters</i> , 2005, 86, 122501.	3.3	285
7	Tailoring a two-dimensional electron gas at the LaAlO ₃ /SrTiO ₃ (001) interface by epitaxial strain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4720-4724.	7.1	218
8	Giant Electric Energy Density in Epitaxial Lead-Free Thin Films with Coexistence of Ferroelectrics and Antiferroelectrics. <i>Advanced Electronic Materials</i> , 2015, 1, 1500052.	5.1	195
9	Hydrogen Induced Metallicity on the ZnO(101̄0) Surface. <i>Physical Review Letters</i> , 2005, 95, 266104.	7.8	192
10	Large Energy Storage Density and High Thermal Stability in a Highly Textured (111)-Oriented Pb _{0.8} Ba _{0.2} ZrO ₃ Relaxor Thin Film with the Coexistence of Antiferroelectric and Ferroelectric Phases. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13512-13517.	8.0	185
11	Direct TEM observations of growth mechanisms of two-dimensional MoS ₂ flakes. <i>Nature Communications</i> , 2016, 7, 12206.	12.8	179
12	Selenium-Doped Black Phosphorus for High-Responsivity 2D Photodetectors. <i>Small</i> , 2016, 12, 5000-5007.	10.0	156
13	Microfluidic reactors for photocatalytic water purification. <i>Lab on A Chip</i> , 2014, 14, 1074-1082.	6.0	151
14	Large Magnetostriction from Morphotropic Phase Boundary in Ferromagnets. <i>Physical Review Letters</i> , 2010, 104, 197201.	7.8	148
15	Direct and Seamless Coupling of TiO ₂ Nanotube Photonic Crystal to Dye-Sensitized Solar Cell: A Single-Step Approach. <i>Advanced Materials</i> , 2011, 23, 5624-5628.	21.0	145
16	Piezo-Phototronic Effect-Induced Dual-Mode Light and Ultrasound Emissions from ZnS:Mn/PMN-PT Thin-Film Structures. <i>Advanced Materials</i> , 2012, 24, 1729-1735.	21.0	142
17	Design and coupling of multifunctional TiO ₂ nanotube photonic crystal to nanocrystalline titania layer as semi-transparent photoanode for dye-sensitized solar cell. <i>Energy and Environmental Science</i> , 2012, 5, 9881.	30.8	130
18	Electrospinning preparation and room temperature gas sensing properties of porous In ₂ O ₃ nanotubes and nanowires. <i>Sensors and Actuators B: Chemical</i> , 2010, 147, 531-538.	7.8	129

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19	Epitaxial ferroelectric Pb(Zr,Sn)O ₃ thin films on Si using SrTiO ₃ template layers. Applied Physics Letters, 2002, 80, 97-99.	3.3	128
20	Flexoelectric materials and their related applications: A focused review. Journal of Advanced Ceramics, 2019, 8, 153-173.	17.4	127
21	Flexible fiber hybrid supercapacitor with NiCo ₂ O ₄ nanograss@carbon fiber and bio-waste derived high surface area porous carbon. Electrochimica Acta, 2016, 211, 411-419.	5.2	126
22	Highly Responsive Room-Temperature Hydrogen Sensing of λ -MoO ₃ Nanoribbon Membranes. ACS Applied Materials & Interfaces, 2015, 7, 9247-9253.	8.0	125
23	Room-temperature pyro-catalytic hydrogen generation of 2D few-layer black phosphorene under cold-hot alternation. Nature Communications, 2018, 9, 2889.	12.8	125
24	Graphene/Sulfur Hybrid Nanosheets from a Space-Confining Reaction for High-Performance Lithium-Sulfur Batteries. Advanced Materials, 2015, 27, 5936-5942.	21.0	124
25	Laser-induced thermal bubbles for microfluidic applications. Lab on A Chip, 2011, 11, 1389.	6.0	119
26	Electric modulation of magnetization at the BaTiO ₃ /La _{0.67} Sr _{0.33} MnO ₃ interfaces. Applied Physics Letters, 2012, 100, .	3.3	118
27	Fast and highly-sensitive hydrogen sensing of Nb ₂ O ₅ nanowires at room temperature. International Journal of Hydrogen Energy, 2012, 37, 4526-4532.	7.1	118
28	A rectification-free piezo-supercapacitor with a polyvinylidene fluoride separator and functionalized carbon cloth electrodes. Journal of Materials Chemistry A, 2015, 3, 14963-14970.	10.3	118
29	Visible Light Responsive Perovskite BiFeO ₃ Pills and Rods with Dominant {111} _c Facets. Crystal Growth and Design, 2011, 11, 1049-1053.	3.0	115
30	Effect of substrate-induced strains on the spontaneous polarization of epitaxial BiFeO ₃ thin films. Journal of Applied Physics, 2007, 101, 114105.	2.5	113
31	Ferroelectric Polarization in Nanocrystalline Hydroxyapatite Thin Films on Silicon. Scientific Reports, 2013, 3, 2215.	3.3	112
32	Advances and prospects of fiber supercapacitors. Journal of Materials Chemistry A, 2015, 3, 20863-20879.	10.3	110
33	High-efficiency and mechano-/photo- bi-catalysis of piezoelectric-ZnO@ photoelectric-TiO ₂ core-shell nanofibers for dye decomposition. Chemosphere, 2017, 183, 528-535.	8.2	109
34	Processing and properties of Yb-doped BiFeO ₃ ceramics. Applied Physics Letters, 2007, 91, .	3.3	108
35	Generation of Janus alginate hydrogel particles with magnetic anisotropy for cell encapsulation. Lab on A Chip, 2009, 9, 2981.	6.0	105
36	Piezoelectric properties of Mn-doped (Na _{0.5} Bi _{0.5}) _{0.92} Ba _{0.08} TiO ₃ ceramics. Materials Letters, 2005, 59, 1649-1652.	2.6	91

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37	Commercial Dacron cloth supported Cu(OH) ₂ nanobelt arrays for wearable supercapacitors. Journal of Materials Chemistry A, 2016, 4, 14781-14788.	10.3	78
38	Gas Sensing Properties of Perovskite BiFeO ₃ Nanoparticles. Journal of the American Ceramic Society, 2009, 92, 3105-3107.	3.8	75
39	ZnO-based film bulk acoustic resonator for high sensitivity biosensor applications. Applied Physics Letters, 2007, 90, 143503.	3.3	73
40	Synthesis of Bismuth Ferrite Nanoparticles via a Wet Chemical Route at Low Temperature. Journal of Nanomaterials, 2011, 2011, 1-6.	2.7	73
41	Preparation of TiO ₂ /ITO and TiO ₂ /Ti photoelectrodes by magnetron sputtering for photocatalytic application. Applied Catalysis A: General, 2006, 305, 54-63.	4.3	69
42	Engineering Nanostructured Bi ₂ WO ₆ TiO ₂ Toward Effective Utilization of Natural Light in Photocatalysis. Journal of the American Ceramic Society, 2011, 94, 4157-4161.	3.8	68
43	Piezoelectric Nanowires in Energy Harvesting Applications. Advances in Materials Science and Engineering, 2015, 2015, 1-21.	1.8	66
44	Determination of the strain dependence of resistance in La _{0.7} Sr _{0.3} MnO ₃ •PMN _{1-x} PT using the converse piezoelectric effect. Physical Review B, 2007, 75, .	3.2	63
45	Flexible and wearable fiber shaped high voltage supercapacitors based on copper hexacyanoferrate and porous carbon coated carbon fiber electrodes. Journal of Materials Chemistry A, 2016, 4, 4934-4940.	10.3	61
46	Controllable Hydrothermal Synthesis of KTa _{1-x} Nb _x O ₃ Nanostructures with Various Morphologies and Their Growth Mechanisms. Crystal Growth and Design, 2008, 8, 832-837.	3.0	60
47	Microstructures and electrical conductance of silver nanocrystalline thin films on flexible polymer substrates. Surface and Coatings Technology, 2010, 204, 1206-1210.	4.8	59
48	Preparation and characterization of hafnium doped barium titanate ceramics. Journal of Alloys and Compounds, 2007, 431, 197-202.	5.5	58
49	Effects of Long- and Short-Range Ferroelectric Order on the Electrocaloric Effect in Relaxor Ferroelectric Ceramics. Physical Review Applied, 2019, 11, .	3.8	57
50	Electrospinning Preparation and Photoluminescence Properties of Lanthanum Phosphate Nanowires and Nanotubes. Journal of Physical Chemistry C, 2009, 113, 9609-9615.	3.1	56
51	Electrospun Bismuth Ferrite Nanofibers for Potential Applications in Ferroelectric Photovoltaic Devices. ACS Applied Materials & Interfaces, 2015, 7, 3665-3670.	8.0	55
52	Novel gas sensing materials based on CuS hollow spheres. Microporous and Mesoporous Materials, 2009, 118, 423-426.	4.4	50
53	Synthesis and photocatalytic activity of electrospun niobium oxide nanofibers. Materials Research Bulletin, 2013, 48, 1213-1217.	5.2	50
54	Hydrothermal growth and optical properties of Nb ₂ O ₅ nanorod arrays. Journal of Materials Chemistry C, 2014, 2, 8185-8190.	5.5	49

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55	Direct synthesis of ultrafine tetragonal BaTiO ₃ nanoparticles at room temperature. <i>Nanoscale Research Letters</i> , 2011, 6, 466.	5.7	48
56	Origin of Ferroelectricity in Epitaxial Si-Doped HfO ₂ Films. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4139-4144.	8.0	48
57	Effects of electrochemical hydrogen charging on lead-based relaxor ferroelectric multilayer ceramic capacitors. <i>Journal of Materials Research</i> , 1998, 13, 1110-1112.	2.6	47
58	Enhanced in-plane ferroelectricity in Ba _{0.7} Sr _{0.3} TiO ₃ thin films grown on MgO (001) single-crystal substrate. <i>Applied Physics Letters</i> , 2005, 86, 212904.	3.3	47
59	Nanocomposite of BiPO ₄ and reduced graphene oxide as an efficient photocatalyst for hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 13527-13533.	7.1	47
60	Hydrogen Impurity Defects in Rutile TiO ₂ . <i>Scientific Reports</i> , 2015, 5, 17634.	3.3	47
61	Piezostain-enhanced photovoltaic effects in BiFeO ₃ /La _{0.7} Sr _{0.3} MnO ₃ /PMN-PT heterostructures. <i>Nano Energy</i> , 2015, 18, 315-324.	16.0	47
62	Hot-pressed K _{0.48} Na _{0.52} Nb _{1-x} Bi _x O ₃ (x=0.05-0.15) lead-free ceramics for electro-optic applications. <i>Materials Chemistry and Physics</i> , 2011, 131, 320-324.	4.0	46
63	Optofluidic microcavities: Dye-lasers and biosensors. <i>Biomicrofluidics</i> , 2010, 4, 043002.	2.4	44
64	Low-temperature facile solution-processed gate dielectric for combustion derived oxide thin film transistors. <i>RSC Advances</i> , 2014, 4, 54729-54739.	3.6	44
65	Ultrahigh Tunability of Room Temperature Electronic Transport and Ferromagnetism in Dilute Magnetic Semiconductor and PMN-PT Single-Crystal-Based Field Effect Transistors via Electric Charge Mediation. <i>Advanced Functional Materials</i> , 2015, 25, 1111-1119.	14.9	44
66	van der Waals epitaxy of Al-doped ZnO film on mica as a flexible transparent heater with ultrafast thermal response. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	43
67	Direct large-scale synthesis of perovskite barium strontium titanate nano-particles from solutions. <i>Journal of Solid State Chemistry</i> , 2005, 178, 279-284.	2.9	42
68	Ferroelectric poling and converse-piezoelectric-effect-induced strain effects in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ films grown on ferr. <i>Physical Review B</i> , 2009, 79, .	3.2	42
69	Direct Observation of Charge Order and an Orbital Glass State in Multiferroic LuFe_2O_4 . <i>Physical Review Letters</i> , 2008, 103, 077602.		42
70	Open-ended TiO ₂ nanotubes formed by two-step anodization and their application in dye-sensitized solar cells. <i>Nanoscale</i> , 2012, 4, 448-450.	5.6	42
71	Tunable angle-independent refractive index sensor based on Fano resonance in integrated metal and graphene nanoribbons. <i>Scientific Reports</i> , 2016, 6, 29984.	3.3	39
72	Monitoring of dopamine release in single cell using ultrasensitive ITO microsensors modified with carbon nanotubes. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2917-2921.	10.1	38

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73	FeCo alloy catalysts promoting polysulfide conversion for advanced lithium-sulfur batteries. Journal of Energy Chemistry, 2020, 49, 339-347.	12.9	38
74	Effects of Ca doping on the Curie temperature, structural, dielectric, and elastic properties of Ba _{0.4} Sr _{0.6-x} CaxTiO ₃ (0 $\leq x \leq 0.3$) perovskites. Journal of Applied Physics, 2005, 98, 084108.	2.5	37
75	Hydrogen: A metastable donor in TiO ₂ single crystals. Applied Physics Letters, 2008, 92, .	3.3	37
76	Nonstoichiometric BiFe _{0.9} Ti _{0.05} O ₃ multiferroic ceramics with ultrahigh electrical resistivity. Journal of Applied Physics, 2010, 108, 094112.	2.5	37
77	Giant Electrocaloric Effect and Ultrahigh Refrigeration Efficiency in Antiferroelectric Ceramics by Morphotropic Phase Boundary Design. ACS Applied Materials & Interfaces, 2020, 12, 45005-45014.	8.0	37
78	A microfluidic system with surface modified piezoelectric sensor for trapping and detection of cancer cells. Biosensors and Bioelectronics, 2010, 26, 935-939.	10.1	36
79	Ultrahigh refractive index sensing performance of plasmonic quadrupole resonances in gold nanoparticles. Nanoscale Research Letters, 2014, 9, 187.	5.7	36
80	Mechanism study on extraordinary room-temperature CO sensing capabilities of Pd-SnO ₂ composite nanoceramics. Sensors and Actuators B: Chemical, 2019, 285, 49-55.	7.8	36
81	Tuning the electrical properties of La _{0.75} Ca _{0.25} MnO ₃ thin films by ferroelectric polarization, ferroelectric-field effect, and converse piezoelectric effect. Physical Review B, 2006, 74, .	3.2	35
82	Spontaneous recovery of hydrogen-degraded TiO ₂ ceramic capacitors. Applied Physics Letters, 2004, 84, 103-105.	3.3	34
83	Effect of lattice-misfit strain on the process-induced imprint behavior in epitaxial Pb(Zr _{0.52} Ti _{0.48})O ₃ thin films. Applied Physics Letters, 2004, 85, 1583-1585.	3.3	33
84	Tunable interface strain coupling and its impact on the electronic transport and magnetic properties of $L_{1-x}Ca_xMnO_3$ thin films. Applied Physics Letters, 2004, 85, 1583-1585.	3.2	33
85	Study of optical Tamm states based on the phase properties of one-dimensional photonic crystals. Optics Express, 2012, 20, 21618.	3.4	32
86	Synthesis and photocatalytic performance of the electrospun Bi ₂ Fe ₄ O ₉ nanofibers. Journal of Materials Science, 2013, 48, 4143-4150.	3.7	32
87	Highly entangled carbon nanoflakes on Li ₃ V ₂ (PO ₄) ₃ microrods for improved lithium storage performance. RSC Advances, 2013, 3, 1297-1301.	3.6	32
88	Aperiodic TiO ₂ Nanotube Photonic Crystal: Full-Visible-Spectrum Solar Light Harvesting in Photovoltaic Devices. Scientific Reports, 2014, 4, 6442.	3.3	32
89	Observable Two-Step Nucleation Mechanism in Solid-State Formation of Tungsten Carbide. ACS Nano, 2019, 13, 681-688.	14.6	32
90	Modulated charged defects and conduction behaviour in doped BiFeO ₃ thin films. Journal Physics D: Applied Physics, 2009, 42, 162001.	2.8	31

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91	Highly mobile and reactive state of hydrogen in metal oxide semiconductors at room temperature. <i>Scientific Reports</i> , 2013, 3, 3149.	3.3	31
92	Application of Weibull distribution analysis to the dielectric failure of multilayer ceramic capacitors. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1997, 47, 197-203.	3.5	30
93	Activation field and fatigue of (Pb, \AA La)(Zr, \AA Ti)O ₃ thin films. <i>Applied Physics Letters</i> , 1999, 75, 4186-4188.	3.3	30
94	Dielectric properties of barium titanate ceramics doped by B ₂ O ₃ vapor. <i>Journal of Applied Physics</i> , 2004, 96, 6937-6939.	2.5	30
95	Strain-mediated electric-field control of resistance in the La _{0.85} Sr _{0.15} MnO ₃ \AA 0.7Pb(Mg ₁ \AA 3Nb ₂ \AA 3)O ₃ \AA 0.3PbTiO ₃ structure. <i>Applied Physics Letters</i> , 2007, 90, 152904.	3.3	30
96	Influence of Electroless Nickel Plating on Multilayer Ceramic Capacitors and the Implications for Reliability in Multilayer Ceramic Capacitors. <i>Journal of the American Ceramic Society</i> , 1998, 81, 2751-2752.	3.8	29
97	Substrate-induced strain effect in La _{0.875} Ba _{0.125} MnO ₃ thin films grown on ferroelectric single-crystal substrates. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	29
98	(K,Na)NbO ₃ Nanofiber-based Self-Powered Sensors for Accurate Detection of Dynamic Strain. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4921-4927.	8.0	29
99	Atomic-Scale Mechanism on Nucleation and Growth of Mo ₂ C Nanoparticles Revealed by in Situ Transmission Electron Microscopy. <i>Nano Letters</i> , 2016, 16, 7875-7881.	9.1	28
100	Crystalline and electronic structures of lithium silicates: A density functional theory study. <i>Journal of Nuclear Materials</i> , 2012, 420, 31-38.	2.7	27
101	Graphene nanocluster decorated niobium oxide nanofibers for visible light photocatalytic applications. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8190.	10.3	27
102	Hydrogen-induced delayed fracture of PZT ceramics during dynamic charging under constant load. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003, 98, 1-5.	3.5	26
103	In-plane dielectric properties of epitaxial 0.65Pb(Mg ₁ \AA 3Nb ₂ \AA 3)O ₃ \AA 0.35PbTiO ₃ thin films in a very wide frequency range. <i>Applied Physics Letters</i> , 2004, 85, 1580-1582.	3.3	26
104	Microstructure and dielectric relaxor properties for Ba _{0.5} Sr _{0.5} TiO ₃ /La _{0.67} Sr _{0.33} MnO ₃ heterostructure. <i>Journal of Applied Physics</i> , 2007, 101, 084101.	2.5	26
105	Electric-field-treatment-induced enhancement of photoluminescence in Er ³⁺ -doped (Ba _{0.95} Sr _{0.05})(Zr _{0.1} Ti _{0.9})O ₃ piezoelectric ceramic. <i>Materials Letters</i> , 2016, 184, 131-133.	2.6	26
106	Suppressing the Coffee-Ring Effect in Semitransparent MnO ₂ Film for a High-Performance Solar-Powered Energy Storage Window. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9088-9096.	8.0	26
107	Design of a ZnO/Poly(vinylidene fluoride) inverse opal film for photon localization-assisted full solar spectrum photocatalysis. <i>Chinese Journal of Catalysis</i> , 2021, 42, 184-192.	14.0	26
108	Core-shell structure of nanoscaled Ba _{0.5} Sr _{0.5} TiO ₃ self-wrapped by MgO derived from a direct solution synthesis at room temperature. <i>Nanotechnology</i> , 2005, 16, 47-52.	2.6	25

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109	A strong correlation of crystal structure and Curie point of barium titanate ceramics with Ba/Ti ratio of precursor composition. <i>Physica B: Condensed Matter</i> , 2008, 403, 660-663.	2.7	25
110	Orientation- ϵ Control Synthesis of $\text{KTa}_{0.25}\text{Nb}_{0.75}\text{O}_3$ Nanorods. <i>Journal of the American Ceramic Society</i> , 2010, 93, 609-613.	3.8	25
111	Direct observation of carbon nanostructure growth at liquid-s ϵ solid interfaces. <i>Chemical Communications</i> , 2014, 50, 826-828.	4.1	25
112	Large flexoelectricity in Al_2O_3 -doped $\text{Ba}(\text{Ti}_{0.85}\text{Sn}_{0.15})\text{O}_3$ ceramics. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	25
113	Ni-s ϵ Al diffusion barrier layer for integrating ferroelectric capacitors on Si. <i>Applied Physics Letters</i> , 2006, 88, 252903.	3.3	24
114	Microstructure and enhanced in-plane ferroelectricity of $\text{Ba}_{0.7}\text{Sr}_{0.3}\text{TiO}_3$ thin films grown on MgAl_2O_4 (001) single-crystal substrate. <i>Applied Physics Letters</i> , 2006, 89, 232906.	3.3	24
115	Improvement of ferroelectric fatigue endurance in multiferroic $(\text{Ba}_{0.5}\text{Sr}_{0.5})\text{TiO}_3\text{-}(\text{Bi}_{1.05}\text{La}_{0.05})\text{FeO}_3\text{-}(\text{Ba}_{0.5}\text{Sr}_{0.5})\text{TiO}_3$ sandwich structures. <i>Applied Physics Letters</i> , 2008, 92, 062902.	3.3	24
116	A new low-temperature solution route to Aurivillius-type layered oxyfluoride perovskites $\text{Bi}_2\text{MO}_5\text{F}$ (M) Tj ETQq0 0 0 rgBT /Overlock 10 T	20.2	24
117	A simple and convenient route to prepare poly(vinylidene fluoride trifluoroethylene) copolymer nanowires and nanotubes. <i>Chemical Communications</i> , 2005, , 1447.	4.1	23
118	Epitaxial growth of SrTiO_3 thin film on Si by laser molecular beam epitaxy. <i>Applied Physics Letters</i> , 2007, 90, 012902.	3.3	23
119	Investigation of substrate-induced strain effects in $\text{La}_{0.7}\text{Ca}_{0.15}\text{Sr}_{0.15}\text{MnO}_3$ thin films using ferroelectric polarization and the converse piezoelectric effect. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	23
120	Structural and dielectric properties of LuFe_2O_4 thin films grown by pulsed-laser deposition. <i>Thin Solid Films</i> , 2010, 518, 6909-6914.	1.8	23
121	Coaction and competition between the ferroelectric field effect and the strain effect in $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ film/ $0.67\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.33\text{PbTiO}_3$ crystal heterostructures. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	23
122	High dielectric tunability, electrostriction strain and electrocaloric strength at a tricritical point of tetragonal, rhombohedral and pseudocubic phases. <i>Journal of Alloys and Compounds</i> , 2015, 646, 597-602.	5.5	23
123	Flexoelectric behavior in PIN-PMN-PT single crystals over a wide temperature range. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	23
124	Influence of oxygen partial pressure on the structural and dielectric properties of $\text{Ba}(\text{Zr}_{0.3}\text{Ti}_{0.7})\text{O}_3$ thin films grown on $(\text{LaAlO}_3)_{0.3}(\text{Sr}_2\text{AlTaO}_6)_{0.35}$ (001) using pulsed laser deposition. <i>Thin Solid Films</i> , 2009, 517, 2092-2098.	1.8	22
125	Enhanced Light Harvesting in Dye-Sensitized Solar Cells Coupled with Titania Nanotube Photonic Crystals: A Theoretical Study. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 13022-13028.	8.0	22
126	Coupling of magnetic field and lattice strain and its impact on electronic phase separation in $\text{La}_{0.335}\text{Pr}_{0.335}\text{Ca}_{0.33}\text{MnO}_3$ /ferroelectric crystal heterostructures. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	22

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127	Effect of defect-induced internal field on the aging of relaxors. <i>Physical Review B</i> , 2003, 67, .	3.2	21
128	Dielectric properties of barium titanate ceramics modified by SiO ₂ and by BaO ⁺ SiO ₂ . <i>Physica B: Condensed Matter</i> , 2009, 404, 2374-2376.	2.7	21
129	Release monitoring of single cells on a microfluidic device coupled with fluorescence microscopy and electrochemistry. <i>Biomicrofluidics</i> , 2010, 4, 043009.	2.4	21
130	Direct synthesis of barium zirconate titanate (BZT) nanoparticles at room temperature and sintering of their ceramics at low temperature. <i>Ceramics International</i> , 2014, 40, 2747-2750.	4.8	21
131	A strategy to reduce the angular dependence of a dye-sensitized solar cell by coupling to a TiO ₂ nanotube photonic crystal. <i>Nanoscale</i> , 2014, 6, 13060-13067.	5.6	21
132	Integration of Oxide Semiconductor Thin Films with Relaxor-Based Ferroelectric Single Crystals with Large Reversible and Nonvolatile Modulation of Electronic Properties. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32809-32817.	8.0	21
133	Effects of ferroelectric polarization and converse piezoelectric effect induced lattice strain on the electrical properties of La _{0.7} Sr _{0.3} MnO ₃ thin films. <i>Journal of Applied Physics</i> , 2006, 99, 123714.	2.5	20
134	Optical properties of octahedral KTaO ₃ nanocrystalline. <i>Materials Chemistry and Physics</i> , 2009, 115, 151-153.	4.0	20
135	Stable 4 V-class bicontinuous cathodes by hierarchically porous carbon coating on Li ₃ V ₂ (PO ₄) ₃ nanospheres. <i>Nanoscale</i> , 2014, 6, 12426-12433.	5.6	20
136	Clam-inspired nanoparticle immobilization method using adhesive tape as microchip substrate. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 106-111.	7.8	20
137	WO ₃ -based capacitor ⁺ varistor doped with Gd ₂ O ₃ . <i>Materials Chemistry and Physics</i> , 2004, 86, 253-257.	4.0	19
138	Perovskite barium zirconate titanate nanoparticles directly synthesized from solutions. <i>Journal of Nanoparticle Research</i> , 2006, 8, 959-963.	1.9	19
139	Dielectric behavior and phase transition in perovskite oxide Pb(Fe _{1/2} Nb _{1/2}) _{1-x} Ti _x O ₃ single crystal. <i>Journal of Applied Physics</i> , 2009, 105, 124109.	2.5	19
140	Synthesis, characterization and ferroelectric properties of lead-free K _{0.5} Na _{0.5} NbO ₃ nanotube arrays. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	19
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