Wenwu Cao

List of Publications by Year
in descending order

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637 papers	21,834 citations	13854 67 h-index	21521 114 g-index
645 all docs	645 docs citations	645 times ranked	17307 citing authors

#	Article	IF	Citations
1	Intrinsic and Extrinsic Size Effects in Fineâ€Grained Morphotropicâ€Phaseâ€Boundary Lead Zirconate Titanate Ceramics. Journal of the American Ceramic Society, 1998, 81, 677-688.	1.9	902
2	Relaxor-based ferroelectric single crystals: Growth, domain engineering, characterization and applications. Progress in Materials Science, 2014, 65, 124-210.	16.0	481
3	Elastic, piezoelectric, and dielectric properties of multidomain 0.67Pb(Mg1/3Nb2/3)O3â€“0.33PbTiO3 single crystals. Journal of Applied Physics, 2001, 90, 3471-3475.	1.1	438
4	Grain size and domain size relations in bulk ceramic ferroelectric materials. Journal of Physics and Chemistry of Solids, 1996, 57, 1499-1505.	1.9	432
5	Back Gated Multilayer InSe Transistors with Enhanced Carrier Mobilities via the Suppression of Carrier Scattering from a Dielectric Interface. Advanced Materials, 2014, 26, 6587-6593.	11.1	410
6	PCR detection and quantitation of predominant anaerobic bacteria in human and animal fecal samples. Applied and Environmental Microbiology, 1996, 62, 1242-1247.	1.4	405
7	The extrinsic nature of nonlinear behavior observed in lead zirconate titanate ferroelectric ceramic. Journal of Applied Physics, 1991, 69, 7219-7224.	1.1	333
8	Theory of tetragonal twin structures in ferroelectric perovskites with a first-order phase transition. Physical Review B, 1991, 44, 5-12.	1.1	298
9	Semiconductor/relaxor 0â€“3 type composites without thermal depolarization in Bi0.5Na0.5TiO3-based lead-free piezoceramics. Nature Communications, 2015, 6, 6615.	5.8	263
10	An optical temperature sensor based on the upconversion luminescence from Tm3+/Yb3+ codoped oxyfluoride glass ceramic. Sensors and Actuators B: Chemical, 2012, 173, 250-253.	4.0	254
11	Optical temperature sensing through the upconversion luminescence from Ho3+/Yb3+ codoped CaWO4. Sensors and Actuators B: Chemical, 2013, 188, 1096-1100.	4.0	228
12	Losses in ferroelectric materials. Materials Science and Engineering Reports, 2015, 89, 1-48.	14.8	224
13	Ultrahigh photo-responsivity and detectivity in multilayer InSe nanosheets phototransistors with broadband response. Journal of Materials Chemistry C, 2015, 3, 7022-7028.	2.7	203
14	Theoretical model for the morphotropic phase boundary in lead zirconateâ€“lead titanate solid solution. Physical Review B, 1993, 47, 4825-4830.	1.1	186
15	Electric Fatigue in Lead Zirconate Titanate Ceramics. Journal of the American Ceramic Society, 1994, 77, 211-215.	1.9	167
16	Synthesis of two-dimensional Î²-Ga₂O₃nanosheets for high-performance solar blind photodetectors. Journal of Materials Chemistry C, 2014, 2, 3254-3259.	2.7	167
17	Vertical 2D MoO₂/MoSe₂ Coreâ€“Shell Nanosheet Arrays as Highâ€Performance Electrocatalysts for Hydrogen Evolution Reaction. Advanced Functional Materials, 2016, 26, 8537-8544.	7.8	167
18	Piezoelectric ceramic bimorph coupled to thin metal plate as cooling fan for electronic devices. Sensors and Actuators A: Physical, 2000, 79, 8-12.	2.0	166

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19	An Insight into the Role of Oxygen Vacancy in Hydrogenated TiO₂ Nanocrystals in the Performance of Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 3754-3763.	4.0	165
20	Exceptionally High Piezoelectric Coefficient and Low Strain Hysteresis in Grain-Oriented (Ba, Ca)(Ti,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Materials & Interfaces, 2017, 9, 29863-29871.	4.0	154
21	Elastic, piezoelectric, and dielectric properties of 0.955Pb(Zn/sub 1/3/Nb/sub 2/3/)O/sub 3/-0.45PbTiO/sub 3/ single crystal with designed multidomains. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2000, 47, 285-291.	1.7	152
22	Sensitive Electronic-Skin Strain Sensor Array Based on the Patterned Two-Dimensional Î±-In₂Se₃. Chemistry of Materials, 2016, 28, 4278-4283.	3.2	146
23	Short-wavelength upconversion emissions in Ho^3+/Yb^3+ codoped glass ceramic and the optical thermometry behavior. Optics Express, 2012, 20, 18127.	1.7	145
24	Elastic, piezoelectric, and dielectric properties of 0.58Pb(Mg1/3Nb2/3)O3-0.42PbTiO3 single crystal. Journal of Applied Physics, 2004, 96, 549-554.	1.1	141
25	High frequency properties of passive materials for ultrasonic transducers. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2001, 48, 78-84.	1.7	140
26	Single-domain properties of 0.67Pb(Mg1/3Nb2/3)O3â€“0.33PbTiO3 single crystals under electric field bias. Applied Physics Letters, 2003, 82, 787-789.	1.5	139
27	Domain-size dependence of piezoelectric properties of ferroelectrics. Physical Review B, 2005, 72, .	1.1	136
28	Excellent optical thermometry based on short-wavelength upconversion emissions in Er^3+/Yb^3+ codoped CaWO_4. Optics Letters, 2012, 37, 4865.	1.7	135
29	Two-Dimensional van der Waals Materials with Aligned In-Plane Polarization and Large Piezoelectric Effect for Self-Powered Piezoelectric Sensors. Nano Letters, 2019, 19, 5410-5416.	4.5	132
30	Highly sensitive optical thermometry through thermally enhanced near infrared emissions from Nd3+/Yb3+ codoped oxyfluoride glass ceramic. Sensors and Actuators B: Chemical, 2013, 178, 520-524.	4.0	127
31	Colorimetric Sensor Based on Selfâ€Assembled Polydiacetylene/Grapheneâ€Stacked Composite Film for Vaporâ€Phase Volatile Organic Compounds. Advanced Functional Materials, 2013, 23, 6044-6050.	7.8	115
32	Highly Stretchable and Conductive Coreâ€“Sheath Chemical Vapor Deposition Graphene Fibers and Their Applications in Safe Strain Sensors. Chemistry of Materials, 2015, 27, 6969-6975.	3.2	111
33	Orientation dependence of piezoelectric properties of single domain 0.67Pb(Mn1/3Nb2/3)O3â€“0.33PbTiO3 crystals. Applied Physics Letters, 2003, 82, 3737-3739.	1.5	106
34	Landau-Ginzburg model of interphase boundaries in improper ferroelastic Perovskites ofD4h18symmetry. Physical Review B, 1990, 41, 4334-4348.	1.1	103
35	The temperature-dependent electrical properties of Bi0.5Na0.5TiO3â€“BaTiO3â€“Bi0.5K0.5TiO3 near the morphotropic phase boundary. Acta Materialia, 2012, 60, 469-475.	3.8	100
36	Complete set of material constants of Pb(In1/2Nb1/2)O3â€“Pb(Mg1/3Nb2/3)O3â€“PbTiO3 single crystal with morphotropic phase boundary composition. Journal of Applied Physics, 2009, 106, 74112.	1.1	99

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37	Domain configurations in domain engineered 0.955Pb(Zn1/3Nb2/3)O3â€“0.045PbTiO3 single crystals. Journal of Applied Physics, 2000, 87, 7438-7441.	1.1	98
38	Microstructure and ferroelectric properties of MnO2-doped bismuth-layer (Ca,Sr)Bi4Ti4O15 ceramics. Journal of Applied Physics, 2005, 98, 064108.	1.1	98
39	Optical temperature sensing based on the near-infrared emissions from Nd^3+/Yb^3+ codoped CaWO_4. Optics Letters, 2014, 39, 4635.	1.7	98
40	Elastic, dielectric, and piezoelectric constants of Pb(In1/2Nb1/2)O3â€“Pb(Mg1/3Nb2/3)O3â€“PbTiO3 single crystal poled along [011]c. Applied Physics Letters, 2010, 97, .	1.5	97
41	Effects of postanneal conditions on the dielectric properties of CaCu3Ti4O12 thin films prepared on Pt/Ti/SiO2/Si substrates. Journal of Applied Physics, 2004, 95, 6483-6485.	1.1	96
42	Large size lead-free (Na,K)(Nb,Ta)O3 piezoelectric single crystal: growth and full tensor properties. CrystEngComm, 2013, 15, 7718.	1.3	94
43	In-Plane Mosaic Potential Growth of Large-Area 2D Layered Semiconductors MoS₂â€“MoSe₂ Lateral Heterostructures and Photodetector Application. ACS Applied Materials & Interfaces, 2017, 9, 1684-1691.	4.0	93
44	Title is missing!. Journal of Materials Science Letters, 2002, 21, 1877-1879.	0.5	89
45	Low-Temperature Growth of Large-Area Heteroatom-Doped Graphene Film. Chemistry of Materials, 2014, 26, 2460-2466.	3.2	87
46	Multiâ€Nonvolatile State Resistive Switching Arising from Ferroelectricity and Oxygen Vacancy Migration. Advanced Materials, 2017, 29, 1606165.	11.1	84
47	Influence of dipolar defects on switching behavior in ferroelectrics. Physical Review B, 2000, 63, .	1.1	83
48	Dielectric enhancement and Maxwell-Wagner effects in polycrystalline ferroelectric multilayered thin films. Journal Physics D: Applied Physics, 2001, 34, 2935-2938.	1.3	82
49	Hopping conduction in Mn-doped ZnO. Applied Physics Letters, 2003, 82, 67-69.	1.5	81
50	Characterization of piezoelectric materials with large piezoelectric and electromechanical coupling coefficients. Ultrasonics, 2003, 41, 55-63.	2.1	80
51	Two-/three-dimensional open lanthanideâ€“organic frameworks containing rigid/flexible dicarboxylate ligands: synthesis, crystal structure and photoluminescent properties. CrystEngComm, 2013, 15, 1931.	1.3	79
52	Sonodynamic therapy inhibits angiogenesis and tumor growth in a xenograft mouse model. Cancer Letters, 2013, 335, 93-99.	3.2	77
53	Controlled growth of vertical 3D MoS_{2(1â^'x)}Se_{2x} nanosheets for an efficient and stable hydrogen evolution reaction. Journal of Materials Chemistry A, 2016, 4, 18060-18066.	5.2	76
54	Domainâ€Related Phase Transitionlike Behavior in Lead Zinc Niobate Relaxor Ferroelectric Single Crystals. Journal of the American Ceramic Society, 1997, 80, 1462-1468.	1.9	75

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55	Pinning and depinning mechanism of defect dipoles in PMnNâ€“PZT ceramics. Journal Physics D: Applied Physics, 2005, 38, 1107-1111.	1.3	75
56	Optical Thermometry through Green Upconversion Emissions in Er^{3+}/Yb^{3+}-Codoped CaWO$_{4}$ Phosphor. Applied Physics Express, 2012, 5, 072201.	1.1	75
57	(K, Na, Li)(Nb, Ta)O₃:Mn Leadâ€Free Single Crystal with High Piezoelectric Properties. Journal of the American Ceramic Society, 2015, 98, 1829-1835.	1.9	75
58	Giant Negative Electrocaloric Effect in (Pb,La)(Zr,Sn,Ti)O₃ Antiferroelectrics Near Room Temperature. ACS Applied Materials & Interfaces, 2018, 10, 11747-11755.	4.0	75
59	PCR detection ofRuminococcusspp. in human and animal faecal samples. Molecular and Cellular Probes, 1997, 11, 259-265.	0.9	74
60	Sensitive Room Temperature Photoluminescence-Based Sensing of H₂S with Novel CuOâ€“ZnO Nanorods. ACS Applied Materials & Interfaces, 2016, 8, 16379-16385.	4.0	74
61	Phase diagram and electrostrictive properties of Bi0.5Na0.5TiO3â€“BaTiO3â€“K0.5Na0.5NbO3 ceramics. Applied Physics Letters, 2010, 97, .	1.5	73
62	Finite element analysis of the cymbal-type flextensional transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1998, 45, 1363-1369.	1.7	72
63	Complete set of elastic, dielectric, and piezoelectric coefficents of 0.93Pb(Zn1â^•3Nb2â^•3)O3â€“0.07PbTiO3 single crystal poled along [011]. Applied Physics Letters, 2006, 89, 242908.	1.5	72
64	Enhanced pyroelectric property in (1â^’x)(Bi_{0.5}Na_{0.5})TiO₃-xBa(Zr_{0.055}Ti_{0.945})O₃ Role of morphotropic phase boundary and ferroelectric-antiferroelectric phase transition. Applied Physics Letters, 2013, 103, 182906.	1.5	72
65	Enhanced Near-Infrared to Visible Upconversion Nanoparticles of Ho³⁺-Yb³⁺-F^{â€“} Tri-Doped TiO₂ and Its Application in Dye-Sensitized Solar Cells with 37% Improvement in Power Conversion Efficiency. Inorganic Chemistry, 2014, 53, 8045-8053.	1.9	71
66	Enhanced NIR-NIR luminescence from CaWO4: Nd3+/Yb3+ phosphors by Li+ codoping for thermometry and optical heating. Journal of Luminescence, 2019, 208, 415-423.	1.5	70
67	Electric field effects on the phase transitions in [001]-oriented(1â^’x)Pb(Mg1/3Nb2/3)O3â^’xPbTiO3single crystals with compositions near the morphotropic phase boundary. Physical Review B, 2003, 68, .	1.1	69
68	Ultrahigh-sensitive optical temperature sensing based on ferroelectric Pr3+-doped (K0.5Na0.5)NbO3. Applied Physics Letters, 2016, 108, .	1.5	69
69	Orientation dependence of piezoelectric properties and mechanical quality factors of 0.27Pb(In1/2Nb1/2)O3-0.46Pb(Mg1/3Nb2/3)O3-0.27PbTiO3:Mn single crystals. Journal of Applied Physics, 2013, 114, .	1.1	68
70	Enhanced electromechanical properties and phase transition temperatures in [001] textured Pb(In1/2Nb1/2)O3-Pb(Mg1/3Nb2/3)O3-PbTiO3 ternary ceramics. Applied Physics Letters, 2015, 107, .	1.5	67
71	CVD growth of large area and uniform graphene on tilted copper foil for high performance flexible transparent conductive film. Journal of Materials Chemistry, 2012, 22, 18283.	6.7	66
72	Complete set of material constants of 0.95(Na0.5Bi0.5)TiO3-0.05BaTiO3 lead-free piezoelectric single crystal and the delineation of extrinsic contributions. Applied Physics Letters, 2013, 103, .	1.5	66

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73	Enhanced Piezoelectric Effect Derived from Grain Boundary in MoS₂ Monolayers. Nano Letters, 2020, 20, 201-207.	4.5	66
74	Highâ€Performance [001]câ€Textured PNNâ€PZT Relaxor Ferroelectric Ceramics for Electromechanical Coupling Devices. Advanced Functional Materials, 2020, 30, 2001846.	7.8	66
75	Direct Observation of Ferroelectric Domains in LiTaO3Using Environmental Scanning Electron Microscopy. Physical Review Letters, 1997, 79, 2558-2561.	2.9	65
76	Electroformation of giant unilamellar vesicles using interdigitated ITO electrodes. Journal of Materials Chemistry A, 2013, 1, 7125.	5.2	65
77	Theoretical study on the static performance of piezoelectric ceramicâ€polymer composites with 1â€3 connectivity. Journal of Applied Physics, 1992, 72, 5814-5821.	1.1	62
78	Enhancement of upconversion luminescence of Y2O3:Er3+ nanocrystals by codoping Li+â€“Zn2+. Journal of Alloys and Compounds, 2011, 509, 409-413.	2.8	62
79	Plane wave propagation in finite 2â€2 composites. Journal of Applied Physics, 1995, 78, 4627-4632.	1.1	61
80	Hall effect and dielectric properties of Mn-doped barium titanate. Microelectronic Engineering, 2003, 66, 855-859.	1.1	61
81	Tuning electrochemical catalytic activity of defective 2D terrace MoSe₂ heterogeneous catalyst via cobalt doping. Journal of Materials Chemistry A, 2017, 5, 11357-11363.	5.2	61
82	Ferroelectricity in the ReBa2Cu3O7â^Î´ superconductors. Materials Letters, 1988, 6, 317-320.	1.3	59
83	Defect-induced heterogeneous transformations and thermal growth in athermal martensite. Physical Review B, 1990, 41, 11319-11327.	1.1	58
84	Formation mechanism of highly [0 0 1] c textured Pb(In 1/2 Nb 1/2)O 3 -Pb(Mg 1/3 Nb 2/3)O 3 -PbTiO 3 relaxor ferroelectric ceramics with giant piezoelectricity. Journal of the European Ceramic Society, 2016, 36, 1973-1981.	2.8	58
85	A complete set of material properties of single domain 0.26Pb(In1/2Nb1/2)O3â€“0.46Pb(Mg1/3Nb2/3)O3â€“0.28PbTiO3 single crystals. Applied Physics Letters, 2010, 96, 012907.	3.5	57
86	Optical temperature sensing in Er3+-Yb3+ codoped CaWO4 and the laser induced heating effect on the luminescence intensity saturation. Journal of Alloys and Compounds, 2017, 726, 547-555.	2.8	57
87	Significantly Enhanced Energy-Harvesting Performance and Superior Fatigue-Resistant Behavior in [001]_c-Textured BaTiO₃-Based Lead-Free Piezoceramics. ACS Applied Materials & Interfaces, 2018, 10, 31488-31497.	4.0	57
88	Effective macroscopic symmetries and materials properties of multidomain 0.955Pb(Zn1/3Nb2/3)O3-0.045PbTiO3 single crystals. Journal of Applied Physics, 2002, 92, 444-448.	1.1	56
89	Complete set of properties of 0.92Pb(Zn1/3Nb2/3)O3â€“0.08PbTiO3 single crystal with engineered domains. Materials Letters, 2003, 57, 1305-1308.	1.3	56
90	Solid-State Reaction Synthesis of a InSe/CuInSe₂ Lateral pâ€“n Heterojunction and Application in High Performance Optoelectronic Devices. Chemistry of Materials, 2015, 27, 983-989.	3.2	56

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91	Smart materials and structures. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 8330-8331.	3.3	55
92	Flux growth and characterization of lead-free piezoelectric single crystal [Bi0.5(Na1â^'xKx)0.5]TiO3. Journal of Crystal Growth, 2005, 281, 364-369.	0.7	55
93	Complete set of elastic, dielectric, and piezoelectric constants of [011]C poled rhombohedral Pb(In0.5Nb0.5)O3-Pb(Mg1/3Nb2/3)O3-PbTiO3:Mn single crystals. Journal of Applied Physics, 2013, 113, 74106.	1.1	55
94	The Predominant Pathway of Apoptosis in THP-1 Macrophage-Derived Foam Cells Induced by 5-Aminolevulinic Acid-Mediated Sonodynamic Therapy is the Mitochondria-Caspase Pathway Despite the Participation of Endoplasmic Reticulum Stress. Cellular Physiology and Biochemistry, 2014, 33, 1789-1801.	1.1	55
95	Inhibition of VDAC1 prevents Ca2+-mediated oxidative stress and apoptosis induced by 5-aminolevulinic acid mediated sonodynamic therapy in THP-1 macrophages. Apoptosis: an International Journal on Programmed Cell Death, 2014, 19, 1712-1726.	2.2	55
96	Enhanced ethanol sensing properties of ultrathin ZnO nanosheets decorated with CuO nanoparticles. Sensors and Actuators B: Chemical, 2018, 255, 3384-3390.	4.0	55
97	Acoustic bandgap formation in a periodic structure with multilayer unit cells. Journal Physics D: Applied Physics, 2000, 33, 1150-1154.	1.3	54
98	Numerical simulations of negative-index refraction in wedge-shaped metamaterials. Physical Review E, 2005, 72, 016607.	0.8	53
99	Detection and photodynamic therapy of inflamed atherosclerotic plaques in the carotid artery of rabbits. Journal of Photochemistry and Photobiology B: Biology, 2011, 102, 26-31.	1.7	53
100	Electromechanical properties and anisotropy of single- and multi-domain 0.72Pb(Mg1/3Nb2/3)O3-0.28PbTiO3 single crystals. Applied Physics Letters, 2011, 99, 162901-1629013.	1.5	53
101	Ultra-large electric fieldâ€“induced strain in potassium sodium niobate crystals. Science Advances, 2020, 6, eaay5979.	4.7	53
102	The strain limits on switching. Nature Materials, 2005, 4, 727-728.	13.3	52
103	Alumina/epoxy nanocomposite matching layers for high-frequency ultrasound transducer application. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 213-219.	1.7	52
104	Measurements of face shear properties in relaxor-PbTiO3 single crystals. Journal of Applied Physics, 2011, 110, .	1.1	52
105	Low-intensity Ultrasound Combined with 5-aminolevulinic Acid Administration in the Treatment of Human Tongue Squamous Carcinoma. Cellular Physiology and Biochemistry, 2012, 30, 321-333.	1.1	52
106	1-D helical chain, 2-D layered network and 3-D porous lanthanideâ€“organic frameworks based on multiple coordination sites of benzimidazole-5,6-dicarboxylic acid: synthesis, crystal structure, photoluminescence and thermal stability. CrystEngComm, 2013, 15, 4489.	1.3	52
107	Large field-induced strain, giant strain memory effect, and high thermal stability energy storage in (Pb,La)(Zr,Sn,Ti)O3 antiferroelectric single crystal. Acta Materialia, 2018, 148, 28-37.	3.8	52
108	Grain-Oriented Ferroelectric Ceramics with Single-Crystal-like Piezoelectric Properties and Low Texture Temperature. ACS Applied Materials & Interfaces, 2020, 12, 38415-38424.	4.0	52

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109	Multifunctional nanoparticles based on the Nd^3+/Yb^3+ codoped NaYF_4. Optics Letters, 2015, 40, 5678.	1.7	51
110	Noncontact thermometry based on downconversion luminescence from Eu 3+ doped LiNbO 3 single crystal. Sensors and Actuators A: Physical, 2016, 238, 215-219.	2.0	51
111	Ambipolar ferromagnetism by electrostatic doping of a manganite. Nature Communications, 2018, 9, 1897.	5.8	51
112	Acoustic band-gap engineering using finite-size layered structures of multiple periodicity. Applied Physics Letters, 1999, 75, 3713-3715.	1.5	50
113	Hollow Spherical Nanoshell Arrays of 2D Layered Semiconductor for Highâ€Performance Photodetector Device. Advanced Functional Materials, 2018, 28, 1705153.	7.8	50
114	Porous Ultrathin NiSe Nanosheet Networks on Nickel Foam for Highâ€Performance Hybrid Supercapacitors. ChemSusChem, 2020, 13, 260-266.	3.6	50
115	Rapid inhibition of atherosclerotic plaque progression by sonodynamic therapy. Cardiovascular Research, 2019, 115, 190-203.	1.8	49
116	Large electrostrictive effect and high energy storage performance of Pr3+-doped PIN-PMN-PT multifunctional ceramics in the ergodic relaxor phase. Journal of the European Ceramic Society, 2019, 39, 4060-4069.	2.8	49
117	Domain switching and microcracking during poling of lead zirconate titanate ceramics. Ferroelectrics, 1993, 145, 271-281.	0.3	48
118	Luminescence and photosensitivity of gadolinium labeled hematoporphyrin monomethyl ether. Optics Express, 2014, 22, 2414.	1.7	48
119	A high quality lead-free (Li, Ta) modified (K, Na)NbO₃single crystal and its complete set of elastic, dielectric and piezoelectric coefficients with macroscopic 4mm symmetry. CrystEngComm, 2014, 16, 9828-9833.	1.3	48
120	Coexistence of multiple positive and negative electrocaloric responses in (Pb, La)(Zr, Sn, Ti)O3 single crystal. Applied Physics Letters, 2016, 108, .	1.5	48
121	NaYbF₄nanoparticles as near infrared light excited inorganic photosensitizers for deep penetration in photodynamic therapy. Nanoscale, 2017, 9, 2706-2710.	2.8	48
122	5-Aminolevulinic Acid-Mediated Sonodynamic Therapy Inhibits RIPK1/RIPK3-Dependent Necroptosis in THP-1-Derived Foam Cells. Scientific Reports, 2016, 6, 21992.	1.6	47
123	Apoptosis of SAS cells induced by sonodynamic therapy using 5-aminolevulinic acid sonosensitizer. Anticancer Research, 2011, 31, 39-45.	0.5	47
124	Quantum cutting mechanism in NaYF_4:Tb^3+, Yb^3+. Optics Letters, 2012, 37, 521.	1.7	46
125	Apoptosis of THP-1 macrophages induced by protoporphyrin IX-mediated sonodynamic therapy. International Journal of Nanomedicine, 2013, 8, 2239.	3.3	46
126	Hysteretic phase transition sequence in<mml:math		

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127	5-Aminolevulinic acid-mediated sonodynamic therapy induces anti-tumor effects in malignant melanoma via p53-miR-34a-Sirt1 axis. Journal of Dermatological Science, 2015, 79, 155-162.	1.0	46
128	Generalized continuum theory for ferroelectric thin films. Physical Review B, 2002, 66, .	1.1	45
129	Ultraviolet and violet upconversion luminescence in Ho3+-doped Y2O3 ceramic induced by 532-nm CW laser. Journal of Alloys and Compounds, 2011, 509, 1115-1118.	2.8	45
130	Enhancement of anti-tumor effects of 5-fluorouracil on hepatocellular carcinoma by low-intensity ultrasound. Journal of Experimental and Clinical Cancer Research, 2016, 35, 71.	3.5	45
131	Field-induced phase transitions and enhanced double negative electrocaloric effects in (Pb,La)(Zr,Sn,Ti)O3 antiferroelectric single crystal. Applied Physics Letters, 2018, 112, .	1.5	45
132	Quantum cutting mechanism in Tb3+-Yb3+ co-doped oxyfluoride glass. Journal of Applied Physics, 2011, 110, .	1.1	44
133	Oxygen vacancy induces self-doping effect and metalloid LSPR in non-stoichiometric tungsten suboxide synergistically contributing to the enhanced photoelectrocatalytic performance of WO_{3âˆ’x}/TiO_{2âˆ’x}heterojunction. Physical Chemistry Chemical Physics, 2018, 20, 17268-17278.	1.3	44
134	Theoretical study on the static performance of piezoelectric ceramic-polymer composites with 2-2 connectivity. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1993, 40, 103-109.	1.7	43
135	Analysis of shear modes in a piezoelectric vibrator. Journal of Applied Physics, 1998, 83, 4415-4420.	1.1	43
136	Polarization reversal study using ultrasound. Applied Physics Letters, 2001, 79, 4556-4558.	1.5	43
137	Raman spectroscopy study of ferroelectric modes in [001]-oriented 0.67Pb(Mg1âˆ•3Nb2âˆ•3)O3â€“0.33PbTiO3 single crystals. Applied Physics Letters, 2005, 86, 252903.	1.5	43
138	Fluorescence intensity ratio method for temperature sensing. Optics Letters, 2015, 40, 4544.	1.7	43
139	Antiproliferative and Apoptosis-inducing Effect of exo-Protoporphyrin IX based Sonodynamic Therapy on Human Oral Squamous Cell Carcinoma. Scientific Reports, 2017, 7, 40967.	1.6	43
140	Mechanical-force-induced non-local collective ferroelastic switching in epitaxial lead-titanate thin films. Nature Communications, 2019, 10, 3951.	5.8	43
141	Ultrahigh energy harvesting properties in textured lead-free piezoelectric composites. Journal of Materials Chemistry A, 2019, 7, 3603-3611.	5.2	43
142	Apoptosis of THP-1 Derived Macrophages Induced by Sonodynamic Therapy Using a New Sonosensitizer Hydroxyl Acetylated Curcumin. PLoS ONE, 2014, 9, e93133.	1.1	43
143	Simulation of boundary condition influence in a second-order ferroelectric phase transition. Journal of Applied Physics, 1999, 86, 5739-5746.	1.1	42
144	Complete set of material constants of single domain (K, Na)(Nb, Ta)O3 single crystal and their orientation dependence. Applied Physics Letters, 2014, 105, 212902.	1.5	42

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145	A UV light enhanced TiO2/graphene device for oxygen sensing at room temperature. RSC Advances, 2013, 3, 22185.	1.7	41
146	Phase Diagram and Enhanced Piezoelectric Response of Leadâ€Free <scp><scp>BaTiO</scp></scp>₃â€“<scp><scp>CaTiO</scp></scp>₃â€“<scp><scp>BaHfO</scp></scp><sub> System. Journal of the American Ceramic Society, 2014, 97, 3244-3251.	1.9	41
147	Realization of Subwavelength Asymmetric Acoustic Transmission Based on Low-Frequency Forbidden Transmission. Physical Review Applied, 2016, 5, .	1.5	41
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