

# Wenwu Cao

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

620  
papers

17,716  
citations

61  
h-index

102  
g-index

645  
ext. papers

19,776  
ext. citations

4.2  
avg, IF

6.88  
L-index

#	Paper	IF	Citations
620	Enhancing the Temperature Stability of 0.42PNN-0.21PZ-0.37PT Ceramics through Texture Engineering.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	4
619	Temperature dependence of electrical and optical properties in Eu <sup>3+</sup> doped Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbZrO <sub>3</sub> -PbTiO <sub>3</sub> ferroelectric ceramics. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 897, 163162	5.7	0
618	Large photovoltaic effect with ultrahigh open-circuit voltage in relaxor-based ferroelectric Pb(In <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> -Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> ceramics. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 104, 119-126	9.1	4
617	Computer-aided characterization of ferroelectric phase transitions and domain structures using polarizing light microscopy. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 072902	3.4	1
616	Dependence of coercive field of PIN <sub>1/3</sub> MN <sub>2/3</sub> BT single crystal on temperature and frequency. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 124102	2.5	0
615	Ultrahigh strain in textured BCZT-based lead-free ceramics with CuO sintering agent. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 117, 207-214	9.1	1
614	Sonodynamic Effects of a Novel Ether-Group Modified Porphyrin Derivative Combined With Pulsed Low-Intensity Ultrasound on PC-9 Cells.. <i>Frontiers in Pharmacology</i> , <b>2021</b> , 12, 792360	5.6	2
613	Scaling relations of domain reversal dynamics in rhombohedral and tetragonal PIN <sub>1/3</sub> MN <sub>2/3</sub> BT ferroelectric single crystals. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 182902	3.4	4
612	Lead-free Ultrasonic Phased Array Transducer for Human Heart Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2021</b> , PP,	3.2	1
611	Involvement of hydrogen peroxide in sonodynamical effect with sinoporphyrin sodium in hypoxic situation. <i>Free Radical Research</i> , <b>2021</b> , 1-14	4	
610	Tonpitz transducer head mass selection based on excitation signal type. <i>Applied Acoustics</i> , <b>2021</b> , 176, 107852	3.1	5
609	Energy Integration Method for Calculating k and its Application in Design Optimization of Disk Resonators via Convex Edge. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2021</b> , 68, 734-741	3.2	
608	Dielectric, elastic and piezoelectric properties of single domain Pb(Zn <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> 0.5%PbTiO <sub>3</sub> single crystal with 3m symmetry measured using one sample. <i>Scripta Materialia</i> , <b>2021</b> , 194, 113634	5.6	2
607	Near-infrared emitting Nd <sup>3+</sup> -Yb <sup>3+</sup> codoped Y <sub>2</sub> O <sub>3</sub> nanocrystals for highly sensitive optical thermometry. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 858, 157637	5.7	6
606	Phase stability and Landau phenomenological model of relaxor ferroelectric single crystals 0.78Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -0.22PbTiO <sub>3</sub> . <i>Ceramics International</i> , <b>2021</b> , 47, 9842-9848	5.1	2
605	High piezoelectricity of Eu <sup>3+</sup> -doped Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> 0.25PbTiO <sub>3</sub> transparent ceramics. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 2426-2436	7.1	8
604	Ferroelectric fatigue and polarization hysteresis behavior of a [001]c Pb(In <sub>0.5</sub> Nb <sub>0.5</sub> )O <sub>3</sub> -Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> single crystal. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 9655-9667	4.3	4

603	The Abnormal Physicochemical Phenomena of Singlet Oxygen Sensor Green in Water in the Presence of Ultrasound. <i>ChemistrySelect</i> , <b>2021</b> , 6, 6631-6635	1.8	
602	Temperature- and electric-field-dependent electrical properties and nanoscale domain structures in PIN-0.49PMN-0.27PT single crystal. <i>Ceramics International</i> , <b>2021</b> , 47, 25875-25882	5.1	0
601	Enhanced mechanical properties in ceramic multilayer composites through integrating crystallographic texture and second-phase toughening. <i>Ceramics International</i> , <b>2021</b> , 47, 31222-31228	5.1	1
600	High-performance Pb(Ni <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbZrO <sub>3</sub> -PbTiO <sub>3</sub> ceramics with the triple point composition. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 6983-6990	6	3
599	Self-heating phenomenon of piezoelectric elements excited by a tone-burst electric field. <i>Ultrasonics</i> , <b>2021</b> , 117, 106562	3.5	0
598	Large, thermally stabilized and fatigue-resistant piezoelectric strain response in textured relaxor-PbTiO <sub>3</sub> ferroelectric ceramics. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 2008-2015	7.1	3
597	NIR to NIR luminescence thermometry in core/multishells-structured nanoparticles operating in the biological window. <i>Journal of Luminescence</i> , <b>2020</b> , 225, 117358	3.8	7
596	Phase transitions and piezoelectricity enhancement around MC -to phase transition in PMN-0.34PT single crystals. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 835, 155171	5.7	4
595	Ultrasonic pulse-echo technique for the characterization of elastic constants of single domain Pb(Zn <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> B.5%PbTiO <sub>3</sub> single crystals with 3m symmetry. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 12737-12746	4.3	
594	Non-contact localized probing of ferroelectric phase transitions in Li <sup>+</sup> /Er <sup>3+</sup> :BaTiO <sub>3</sub> ceramics using fluorescence abnormalities. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 042901	3.4	1
593	High-Performance [001] <sub>c</sub> -Textured PNN-PZT Relaxor Ferroelectric Ceramics for Electromechanical Coupling Devices. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001846	15.6	26
592	Hematoporphyrin monomethyl ether mediated sonodynamic antimicrobial chemotherapy on porphyromonas gingivalis in vitro. <i>Microbial Pathogenesis</i> , <b>2020</b> , 144, 104192	3.8	10
591	Ultra-large electric field-induced strain in potassium sodium niobate crystals. <i>Science Advances</i> , <b>2020</b> , 6, eaay5979	14.3	35
590	Hematoporphyrin monomethyl ether-mediated sonodynamic therapy induces A-253 cell apoptosis. <i>Oncology Letters</i> , <b>2020</b> , 19, 3223-3228	2.6	2
589	Dielectric relaxation and local domain structures of ferroelectric PIMNT and PMNT single crystals. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 1744-1754	3.8	2
588	Enhanced Piezoelectric Effect Derived from Grain Boundary in MoS Monolayers. <i>Nano Letters</i> , <b>2020</b> , 20, 201-207	11.5	35
587	Intrinsic Dipole Coupling in 2D van der Waals Ferroelectrics for Gate-Controlled Switchable Rectifier. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 1900975	6.4	19
586	Temperature- and frequency-dependent hysteresis scaling behaviour and phase transitions in a [001] <sub>c</sub> 0.73Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -0.27PbTiO <sub>3</sub> single crystal. <i>Ceramics International</i> , <b>2020</b> , 46, 8675-8681	5.1	4

585	Single-Crystal High-Frequency Intravascular Ultrasound Transducer With 40- $\mu$ m Axial Resolution. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2020</b> , 67, 810-816	3.2	5
584	Plasmonic Enhanced Reactive Oxygen Species Activation on Low-Work-Function Tungsten Nitride for Direct Near-Infrared Driven Photocatalysis. <i>Small</i> , <b>2020</b> , 16, e2004557	11	5
583	Temperature Dependence of Normalized Sensitivity of Love Wave Sensor of Unidirectional Carbon Fiber Epoxy Composite on Mn-Doped 0.24PIN-0.46PMN-0.30PT Single Crystal Substrate. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 8442	2.6	0
582	NIR Photocatalysis: Plasmonic Enhanced Reactive Oxygen Species Activation on Low-Work-Function Tungsten Nitride for Direct Near-Infrared Driven Photocatalysis (Small 45/2020). <i>Small</i> , <b>2020</b> , 16, 2070247	11	0
581	Grain-Oriented Ferroelectric Ceramics with Single-Crystal-like Piezoelectric Properties and Low Texture Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 38415-38424	9.5	21
580	Phase field simulation of de-aging process in acceptor-doped ferroelectrics. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 816, 152503	5.7	0
579	Porous Ultrathin NiSe Nanosheet Networks on Nickel Foam for High-Performance Hybrid Supercapacitors. <i>ChemSusChem</i> , <b>2020</b> , 13, 260-266	8.3	26
578	Elimination of Severe Near-Field Spatial Variations of Ultrasonic Transducers Using $\pi$ -Power Bessel Function Amplitude Distribution. <i>Physical Review Applied</i> , <b>2019</b> , 12,	4.3	1
577	Mechanical-force-induced non-local collective ferroelastic switching in epitaxial lead-titanate thin films. <i>Nature Communications</i> , <b>2019</b> , 10, 3951	17.4	25
576	Sinoporphyrin sodium based sonodynamic therapy induces anti-tumor effects in hepatocellular carcinoma and activates p53/caspase 3 axis. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2019</b> , 113, 104-114	5.6	22
575	Dynamic characteristics of defect dipoles in Mn-doped 0.24Pb(In <sub>1</sub> /2Nb <sub>1</sub> /2)O <sub>3</sub> 0.47Pb(Mg <sub>1</sub> /3Nb <sub>2</sub> /3)O <sub>3</sub> 0.29PbTiO <sub>3</sub> single crystal. <i>CrystEngComm</i> , <b>2019</b> , 21, 348-355	3.3	5
574	Bactericidal effects of hematoporphyrin monomethyl ether-mediated blue-light photodynamic therapy against Staphylococcus aureus. <i>Photochemical and Photobiological Sciences</i> , <b>2019</b> , 18, 92-97	4.2	8
573	Ultrahigh energy harvesting properties in textured lead-free piezoelectric composites. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 3603-3611	13	28
572	Large electrostrictive effect and high energy storage performance of Pr <sup>3+</sup> -doped PIN-PMN-PT multifunctional ceramics in the ergodic relaxor phase. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 4060-4069	6	26
571	Evaluation of reversible and irreversible domain wall motions in relaxor ferroelectrics: Influence of acceptor ions. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 232901	3.4	5
570	Temperature-dependent phase transition in [001]-oriented 0.72Pb(MgNb)O-0.28PbTiO single crystals. <i>Ceramics International</i> , <b>2019</b> , 45, 13999-14005	5.1	6
569	Effects of palmatine hydrochloride mediated photodynamic therapy on oral squamous cell carcinoma. <i>Photochemical and Photobiological Sciences</i> , <b>2019</b> , 18, 1596-1605	4.2	5
568	Accurate characterization of complete set constants of single domain 0.72Pb(Mg <sub>1</sub> /3Nb <sub>2</sub> /3)O <sub>3</sub> 0.28PbTiO <sub>3</sub> single crystal by resonant ultrasound spectroscopy using only one sample. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 064102	2.5	3

567	Modeling dynamic rotation of defect dipoles and poling time dependence of piezoelectric effect in ferroelectrics. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 102902	3.4	3
566	Improved densification behavior and energy harvesting properties of low-temperature sintered (Ba, Ca)(Zr, Ti)O <sub>3</sub> piezoceramics with a CuO additive. <i>Ceramics International</i> , <b>2019</b> , 45, 10518-10524	5.1	13
565	Rapid inhibition of atherosclerotic plaque progression by sonodynamic therapy. <i>Cardiovascular Research</i> , <b>2019</b> , 115, 190-203	9.9	25
564	Enhanced electrocaloric effect in a Si-doped PbZr <sub>0.95</sub> Ti <sub>0.05</sub> O <sub>3</sub> film deposited on FTO substrate. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 053901	3.4	2
563	Improved green upconversion emissions from CaWO <sub>4</sub> : Er <sup>3+</sup> -Yb <sup>3+</sup> by Cr <sup>3+</sup> codoping for optical thermometry. <i>Journal of Luminescence</i> , <b>2019</b> , 215, 116617	3.8	19
562	Detecting trace of mercury ions in water using photoacoustic method enhanced by gold nanospheres. <i>Microchemical Journal</i> , <b>2019</b> , 150, 104058	4.8	4
561	Diameter-optimized high-order waveguide nanorods for fluorescence enhancement applied in ultrasensitive bioassays. <i>Nanoscale</i> , <b>2019</b> , 11, 14322-14329	7.7	16
560	Metallic tungsten carbide nanoparticles as a near-infrared-driven photocatalyst. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 18538-18546	13	19
559	Two-Dimensional van der Waals Materials with Aligned In-Plane Polarization and Large Piezoelectric Effect for Self-Powered Piezoelectric Sensors. <i>Nano Letters</i> , <b>2019</b> , 19, 5410-5416	11.5	74
558	Low-frequency Gibbs-type oscillation in finite solidfluid sonic crystals and its application in sub-wavelength wave isolation for waterborne sound. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 505114	3.4	2
557	Defect dynamics in clusters of self-propelled rods in circular confinement. <i>European Physical Journal E</i> , <b>2019</b> , 42, 150	1.5	2
556	Dielectric relaxation properties of [001] <sub>c</sub> , [011] <sub>c</sub> , and [111] <sub>c</sub> -oriented 0.24PIN-0.47PMN-0.29PT single crystals. <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 4103-4112	3.8	3
555	Enhanced NIR-NIR luminescence from CaWO <sub>4</sub> : Nd <sup>3+</sup> /Yb <sup>3+</sup> phosphors by Li <sup>+</sup> codoping for thermometry and optical heating. <i>Journal of Luminescence</i> , <b>2019</b> , 208, 415-423	3.8	36
554	Electric field and frequency dependent scaling behavior of dynamic hysteresis in relaxor-based ferroelectric 0.71Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> 0.29PbTiO <sub>3</sub> single crystal. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 775, 435-440	5.7	14
553	Ferroelectric properties of Ag doped PbZr <sub>0.53</sub> Ti <sub>0.47</sub> O <sub>3</sub> thin film deposited by sol-gel process. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 2592-2599	2.1	1
552	Landau expansion parameters and the O-T phase transition of a 0.64Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> 0.36PbTiO <sub>3</sub> single crystal. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	7
551	Topochemical transformation of single crystalline SrTiO <sub>3</sub> microplatelets from Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> precursors and their orientation-dependent surface piezoelectricity. <i>CrystEngComm</i> , <b>2018</b> , 20, 3084-3093	3.3	10
550	Enhanced electric field induced strain in (1-x)((Bi <sub>0.5</sub> Na <sub>0.5</sub> )TiO <sub>3</sub> -Ba(Ti, Zr)O <sub>3</sub> )-xSrTiO <sub>3</sub> ceramics. <i>Ceramics International</i> , <b>2018</b> , 44, 12869-12876	5.1	13

549	Large field-induced strain, giant strain memory effect, and high thermal stability energy storage in (Pb,La)(Zr,Sn,Ti)O <sub>3</sub> antiferroelectric single crystal. <i>Acta Materialia</i> , <b>2018</b> , 148, 28-37	8.4	33
548	Mn doping effects on electric properties of 0.93(Bi <sub>0.5</sub> Na <sub>0.5</sub> )TiO <sub>3</sub> -0.07Ba(Ti <sub>0.945</sub> Zr <sub>0.055</sub> )O <sub>3</sub> ceramics. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 2996-3004	3.8	21
547	Influence of Finite Size on the Electrocaloric Response in PbTiO <sub>3</sub> Ceramics Near Room Temperature Using Landau Theory. <i>Physica Status Solidi (B): Basic Research</i> , <b>2018</b> , 255, 1700469	1.3	4
546	Structure and ferroelectric behavior of Cu-doped PbTiO <sub>3</sub> thin film deposited on FTO by sol-gel technique. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 739, 700-704	5.7	7
545	Hollow Spherical Nanoshell Arrays of 2D Layered Semiconductor for High-Performance Photodetector Device. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705153	15.6	39
544	Growth and property enhancement of Er <sup>3+</sup> -doped 0.68Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -0.32PbTiO <sub>3</sub> single crystal. <i>Journal of Rare Earths</i> , <b>2018</b> , 36, 832-837	3.7	7
543	Temperature dependence of full matrix material constants of [001]c poled 0.71Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -0.29PbTiO <sub>3</sub> single crystal. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 164102	2.5	3
542	Effects of low-intensity ultrasound combined with low-dose carboplatin in an orthotopic hamster model of tongue cancer: A preclinical study. <i>Oncology Reports</i> , <b>2018</b> , 39, 1609-1618	3.5	5
541	Field-induced phase transitions and enhanced double negative electrocaloric effects in (Pb,La)(Zr,Sn,Ti)O <sub>3</sub> antiferroelectric single crystal. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 133901	3.4	39
540	Improved fracture behavior and mechanical properties of alumina textured ceramics. <i>Materials Letters</i> , <b>2018</b> , 221, 252-255	3.3	9
539	Giant Negative Electrocaloric Effect in (Pb,La)(Zr,Sn,Ti)O Antiferroelectrics Near Room Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 11747-11755	9.5	56
538	Controlling the angle range in acoustic low-frequency forbidden transmission in solid-fluid superlattice. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 115111	2.5	7
537	Enhanced ethanol sensing properties of ultrathin ZnO nanosheets decorated with CuO nanoparticles. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 255, 3384-3390	8.5	40
536	Differentiate low impedance media in closed steel tank using ultrasonic wave tunneling. <i>Ultrasonics</i> , <b>2018</b> , 82, 130-133	3.5	2
535	Morphology-controlled synthesis of alumina microplatelets through an additive-assisted molten salt reaction. <i>Materials Letters</i> , <b>2018</b> , 210, 182-185	3.3	4
534	Origin of Improvement in Mechanical Quality Factor in Acceptor-Doped Relaxor-Based Ferroelectric Single Crystals. <i>Physical Review Applied</i> , <b>2018</b> , 9,	4.3	22
533	Aging and thermal stability of [001]c- and [111]c-poled 0.63Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> 0.37PbTiO <sub>3</sub> single crystals. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 16207-16214	2.1	
532	Origin of large electrostrain in Sn <sup>4+</sup> doped Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> -x(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> ceramics. <i>Acta Materialia</i> , <b>2018</b> , 157, 155-164	8.4	15

531	Domain engineering and full matrix material constants of the [111]c-poled 0.63Pb(Mg1/3Nb2/3)-0.37PbTiO3 single crystal. <i>CrystEngComm</i> , <b>2018</b> , 20, 4745-4751	3.3	3
530	Significantly Enhanced Energy-Harvesting Performance and Superior Fatigue-Resistant Behavior in [001]-Textured BaTiO-Based Lead-Free Piezoceramics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 31488-31497	9.5	35
529	Theoretical study on local domain pinning effect due to defect dipole alignment. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 415303	3	17
528	A subwavelength asymmetric acoustic design for waveform-preserved highly forward transmission. <i>AIP Advances</i> , <b>2018</b> , 8, 085102	1.5	7
527	Improved depolarization behavior and electric properties in (Bi0.5Na0.5)TiO3-based piezoelectric composites. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 769, 660-668	5.7	10
526	Magnesium Alloy Matching Layer for PMN-PT Single Crystal Transducer Applications. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2018</b> , 65, 1865-1872	3.2	6
525	Oxygen vacancy induces self-doping effect and metalloid LSPR in non-stoichiometric tungsten suboxide synergistically contributing to the enhanced photoelectrocatalytic performance of WO/TiO heterojunction. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 17268-17278	3.6	36
524	Potential involvement of the 18 kDa translocator protein and reactive oxygen species in apoptosis of THP-1 macrophages induced by sonodynamic therapy. <i>PLoS ONE</i> , <b>2018</b> , 13, e0196541	3.7	5
523	Dynamic scaling of internal bias field in Mn-doped 0.24Pb(In1/2Nb1/2)O30.42Pb(Mg1/3Nb2/3)O30.34PbTiO3 ferroelectric ceramic. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 12762-12769	4.3	10
522	Comprehensive analysis of Mn:PIN-PMN-PT single crystals for Class IV flexensional transducer. <i>Ceramics International</i> , <b>2018</b> , 44, 2864-2868	5.1	5
521	Vertical MoSe-MoO p-n heterojunction and its application in optoelectronics. <i>Nanotechnology</i> , <b>2018</b> , 29, 045202	3.4	9
520	Inhibitory effect of aloe emodin mediated photodynamic therapy on human oral mucosa carcinoma in vitro and in vivo. <i>Biomedicine and Pharmacotherapy</i> , <b>2018</b> , 97, 697-707	7.5	25
519	Parameters identification and contact analysis of traveling wave ultrasonic motor based on measured force and feedback voltage. <i>Sensors and Actuators A: Physical</i> , <b>2018</b> , 284, 201-208	3.9	10
518	Magnesium Alloy Matching Layer for High-Performance Transducer Applications. <i>Sensors</i> , <b>2018</b> , 18,	3.8	7
517	Effects of polymeric filler on polarization fatigue of 1-3 0.74Pb(Mg1/3Nb2/3)O3-0.26PbTiO3 single crystal/polymer composites. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 214101	2.5	
516	Sonodynamic therapy improves anti-tumor immune effect by increasing the infiltration of CD8+ T cells and altering tumor blood vessels in murine B16F10 melanoma xenograft. <i>Oncology Reports</i> , <b>2018</b> , 40, 2163-2170	3.5	6
515	Low-frequency forbidden bandgap engineering via a cascade of multiple 1D superlattices. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 155102	2.5	4
514	Temperature dependent piezoelectric anisotropy in tetragonal 0.63Pb(Mg1/3Nb2/3)-0.37PbTiO3 single crystal. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 102903	3.4	3

513	Ambipolar ferromagnetism by electrostatic doping of a manganite. <i>Nature Communications</i> , <b>2018</b> , 9, 1897	17.4	30
512	Anti-Stokes excited Er <sup>3+</sup> /Yb <sup>3+</sup> codoped oxyfluoride glass ceramic for luminescence thermometry. <i>Journal of Luminescence</i> , <b>2018</b> , 203, 401-408	3.8	15
511	Photoluminescence critical behavior in Er <sup>3+</sup> doped Ba <sub>0.77</sub> Ca <sub>0.23</sub> TiO <sub>3</sub> ceramic. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 701, 63-66	5.7	4
510	Antiproliferative and Apoptosis-inducing Effect of exo-Protoporphyrin IX based Sonodynamic Therapy on Human Oral Squamous Cell Carcinoma. <i>Scientific Reports</i> , <b>2017</b> , 7, 40967	4.9	26
509	40% enhanced photocurrent of dye sensitized solar cells using lotus-shaped H <sub>2</sub> -treated anatase TiO <sub>2</sub> with {0 0 1} dominated facets. <i>Chemical Engineering Journal</i> , <b>2017</b> , 316, 534-543	14.7	11
508	NaYbF nanoparticles as near infrared light excited inorganic photosensitizers for deep penetration in photodynamic therapy. <i>Nanoscale</i> , <b>2017</b> , 9, 2706-2710	7.7	44
507	Photophysical properties of sinoporphyrin sodium and explanation of its high photo-activity. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2017</b> , 21, 59-66	1.8	9
506	Field induced phase transitions and energy harvesting performance of (Pb,La)(Zr,Sn,Ti)O <sub>3</sub> single crystal. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 064104	2.5	22
505	High-quality K <sub>0.47</sub> Na <sub>0.53</sub> NbO <sub>3</sub> single crystal toward high performance transducer. <i>RSC Advances</i> , <b>2017</b> , 7, 7003-7007	3.7	13
504	A non-invasive photoacoustic and ultrasonic method for the measurement of glucose solution concentration. <i>AIP Advances</i> , <b>2017</b> , 7, 035313	1.5	11
503	Temperature- and E-field-dependent domain configuration and electrical properties in (K, Na, Li)(Nb, Ta, Sb)O <sub>3</sub> single crystal. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 3973-3981	3.8	3
502	Multi-Nonvolatile State Resistive Switching Arising from Ferroelectricity and Oxygen Vacancy Migration. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606165	24	64
501	Determination of temperature dependence of full matrix material constants of PZT-8 piezoceramics using only one sample. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 714, 20-25	5.7	6
500	High-Frequency Ultrasonic Imaging with Lead-free (Na,K)(Nb,Ta)O Single Crystal. <i>Ultrasonic Imaging</i> , <b>2017</b> , 39, 348-356	1.9	12
499	Tuning electrochemical catalytic activity of defective 2D terrace MoSe <sub>2</sub> heterogeneous catalyst via cobalt doping. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 11357-11363	13	41
498	Photophysical properties, singlet oxygen generation efficiency and cytotoxic effects of aloe emodin as a blue light photosensitizer for photodynamic therapy in dermatological treatment. <i>Photochemical and Photobiological Sciences</i> , <b>2017</b> , 16, 1088-1094	4.2	23
497	Depoling and fatigue behavior of Pb(MgNb)O-PbTiO single crystal at megahertz frequencies under bipolar electric field. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 174101	2.5	6
496	Frequency dependence of the coercive field of 0.71Pb(MgNb)O-0.29PbTiO single crystal from 0.01 Hz to 5 MHz. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 202904	3.4	17



495	Eliminating the "decoupling" effect of fluorescence intensity ratio thermometry for an upconversion pumped system. <i>Journal of Luminescence</i> , <b>2017</b> , 192, 184-187	3.8	1
494	Water-soluble gadolinium porphyrin as a multifunctional theranostic agent: Phosphorescence-based oxygen sensing and photosensitivity. <i>Dyes and Pigments</i> , <b>2017</b> , 142, 465-471	4.6	28
493	In-Plane Mosaic Potential Growth of Large-Area 2D Layered Semiconductors MoS-MoSe Lateral Heterostructures and Photodetector Application. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 1684-1691	9.5	63
492	Influence of poling condition on crystal-rod domain configuration in 0.67Pb(Mg 1/3 Nb 2/3 )O 3 -0.33PbTiO 3 single crystal/epoxy 1-3 composites. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 699, 442-447	5.7	2
491	Tetragonal (K, Na)NbO3 based lead-free single crystal: Growth, full tensor properties, and their orientation dependence. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 172903	3.4	11
490	Temperature and frequency dependence of the coercive field of 0.71PbMg1/3Nb2/3O30.29PbTiO3 relaxor-based ferroelectric single crystal. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 172902	3.4	22
489	Temperature induced phase transformations and negative electrocaloric effect in (Pb,La)(Zr,Sn,Ti)O3 antiferroelectric single crystal. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 154101	2.5	25
488	Fluorescence intensity ratio thermometer methodology of eliminating the "decoupling" effect of a pair of thermally coupled energy levels of rare-earth ions. <i>Optics Letters</i> , <b>2017</b> , 42, 1401-1403	3	4
487	Doxorubicin combined with low intensity ultrasound suppresses the growth of oral squamous cell carcinoma in culture and in xenografts. <i>Journal of Experimental and Clinical Cancer Research</i> , <b>2017</b> , 36, 163	12.8	15
486	Precise determination on the upconversion processes of the ultraviolet upconversion fluorescence of Ho3+-doped Y2O3 ceramic by excitation of a 532-nm continuous-wave laser. <i>Optics Letters</i> , <b>2017</b> , 42, 2279-2282	3	2
485	Effect of Mn-doping on dielectric relaxation behavior of Pb(In1/2Nb1/2)O3-Pb(Mg1/3Nb2/3)O3-PbTiO3 ferroelectric ceramics. <i>Ceramics International</i> , <b>2017</b> , 43, 16819-16826	5.1	17
484	Enhanced Energy Storage with Polar Vortices in Ferroelectric Nanocomposites. <i>Physical Review Applied</i> , <b>2017</b> , 8,	4.3	14
483	Protoporphyrin IX-mediated sonodynamic therapy promotes autophagy in vascular smooth muscle cells. <i>Oncology Letters</i> , <b>2017</b> , 14, 2097-2102	2.6	3
482	Optical temperature sensing in Er3+-Yb3+ codoped CaWO4 and the laser induced heating effect on the luminescence intensity saturation. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 726, 547-555	5.7	40
481	Phase coexistence and Landau expansion parameters for a 0.70Pb(Mg1/3Nb2/3)O30.30PbTiO3 single crystal. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	21
480	Effect of shear stress in ferroelectric solid solutions with coexisting phases. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 054102	2.5	3
479	Exceptionally High Piezoelectric Coefficient and Low Strain Hysteresis in Grain-Oriented (Ba, Ca)(Ti, Zr)O through Integrating Crystallographic Texture and Domain Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 29863-29871	9.5	114
478	Er3+ doped ferroelectric Pb(Mg1/3Nb2/3)O30.25PbTiO3 ceramic used as a linear response fluorescent temperature sensor. <i>Journal of Luminescence</i> , <b>2017</b> , 181, 128-132	3.8	17

477	The effect of annealing temperature on the optical and electrical properties of cubic MgZnO films grown by RF magnetron sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 1644-1651	2.1	2
476	Ratiometric oxygen sensing using the tunable ratio of phosphorescence to fluorescence emissions from gadolinium porphyrin and porphyrin. <i>Journal of Luminescence</i> , <b>2017</b> , 183, 452-457	3.8	7
475	Directional Acoustic Wave Manipulation by a Porpoise via Multiphase Forehead Structure. <i>Physical Review Applied</i> , <b>2017</b> , 8,	4.3	19
474	Nonlinear phosphorescence quenching mechanism of gadolinium labeled porphyrin by oxygen on filter paper. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2016</b> , 316, 7-11	4.7	5
473	The effect of imidazole on the enhancement of gadolinium-porphyrin phosphorescence at room temperature. <i>Dalton Transactions</i> , <b>2016</b> , 45, 16889-16895	4.3	6
472	Comparison study on the influence of the central metal ions in palladium(II)- and gadolinium(III)-porphyrins for phosphorescence-based oxygen sensing. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 9581-9587	7.1	17
471	Optical bandgap and dispersions of $0.24\text{Pb}(\text{In } 1/2 \text{ Nb } 1/2 )\text{O}_3$ - $0.43\text{Pb}(\text{Mg } 1/3 \text{ Nb } 2/3 )\text{O}_3$ - $0.33\text{PbTiO}_3$ single crystal poled along [011] c direction. <i>Optical Materials</i> , <b>2016</b> , 60, 101-104	3.3	9
470	Realization of Subwavelength Asymmetric Acoustic Transmission Based on Low-Frequency Forbidden Transmission. <i>Physical Review Applied</i> , <b>2016</b> , 5,	4.3	35
469	Patterned Growth of P-Type MoS <sub>2</sub> Atomic Layers Using Sol-Gel as Precursor. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 6371-6379	15.6	26
468	Temperature and electric-field induced phase transitions, and full tensor properties of [011] -poled domain-engineered tetragonal $0.63\text{Pb}(\text{MgNb})$ - $0.37\text{PbTiO}$ single crystals. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	28
467	Effect of annealing temperature on the optical property of high Cd content CdZnO films. <i>Superlattices and Microstructures</i> , <b>2016</b> , 97, 569-574	2.8	5
466	Pr <sup>3+</sup> -Doped (K <sub>0.5</sub> Na <sub>0.5</sub> )NbO <sub>3</sub> as a high response optical oxygen sensing agent. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 11508-11513	7.1	20
465	Controlled growth of vertical 3D MoS <sub>2</sub> (1-x)Se <sub>2x</sub> nanosheets for an efficient and stable hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 18060-18066	13	61
464	5-Aminolevulinic Acid-Mediated Sonodynamic Therapy Inhibits RIPK1/RIPK3-Dependent Necroptosis in THP-1-Derived Foam Cells. <i>Scientific Reports</i> , <b>2016</b> , 6, 21992	4.9	33
463	Characterization of Full Set Material Constants and Their Temperature Dependence for Piezoelectric Materials Using Resonant Ultrasound Spectroscopy. <i>Journal of Visualized Experiments</i> , <b>2016</b> ,	1.6	4
462	Structural deformation of $0.74\text{Pb}(\text{Mg } 1/3 \text{ Nb } 2/3 )\text{O}_3$ - $0.26\text{PbTiO}_3$ single crystal in 1B composites due to interface stresses and poling procedure optimization. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 124104	2.5	5
461	Valley-to-peak intensity ratio thermometry based on the red upconversion emission of Er <sup>3+</sup> . <i>Optics Express</i> , <b>2016</b> , 24, 13244-9	3.3	12
460	Polarized Raman study on phase transitions of the nanodomains in $0.24\text{Pb}(\text{In } 1/2 \text{ Nb } 1/2 )\text{O}_3$ - $0.43\text{Pb}(\text{Mg } 1/3 \text{ Nb } 2/3 )\text{O}_3$ - $0.33\text{PbTiO}_3$ ferroelectric single crystal. <i>Integrated Ferroelectrics</i> , <b>2016</b> , 170, 155-161	0.8	

459	Facile synthesis and upconversion luminescence of $\text{NaYF}_4\text{:Yb, Tm}$ nanocrystals with highly tunable and uniform $\text{NaYF}_4$ shells. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 684, 211-216	5.7	12
458	Domain structures and piezoelectric properties of low-temperature sintered $(\text{Ba}_{0.95}\text{Ca}_{0.05})(\text{Ti}_{0.94}\text{Sn}_{0.06})\text{O}_3$ ceramics with CuO additive. <i>Materials Letters</i> , <b>2016</b> , 177, 128-131	3.3	8
457	Sensitive Room Temperature Photoluminescence-Based Sensing of H <sub>2</sub> S with Novel CuO-ZnO Nanorods. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 16379-85	9.5	60
456	Enhancement of anti-tumor effects of 5-fluorouracil on hepatocellular carcinoma by low-intensity ultrasound. <i>Journal of Experimental and Clinical Cancer Research</i> , <b>2016</b> , 35, 71	12.8	32
455	Hierarchical Assembly of Tungsten Spheres and Epoxy Composites in Three-Dimensional Graphene Foam and Its Enhanced Acoustic Performance as a Backing Material. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 18496-504	9.5	12
454	Densification behavior and electrical properties of CuO-doped $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{PbTiO}_3$ ternary ceramics. <i>Ceramics International</i> , <b>2016</b> , 42, 7223-7229	5.1	16
453	794 nm excited core-shell upconversion nanoparticles for optical temperature sensing. <i>RSC Advances</i> , <b>2016</b> , 6, 11795-11801	3.7	33
452	Ratiometric dissolved oxygen sensitive indicator based on lutetium labeled hematoporphyrin monomethyl ether with balanced phosphorescence and fluorescence dual emission. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 231, 539-546	8.5	20
451	Relaxation behavior in $0.24\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{PbTiO}_3$ ferroelectric single crystal. <i>Ceramics International</i> , <b>2016</b> , 42, 4893-4898	5.1	17
450	Noncontact thermometry based on downconversion luminescence from Eu <sup>3+</sup> doped LiNbO <sub>3</sub> single crystal. <i>Sensors and Actuators A: Physical</i> , <b>2016</b> , 238, 215-219	3.9	38
449	Small molecule inhibitor of c-Met (PHA665752) suppresses the growth of ovarian cancer cells and reverses cisplatin resistance. <i>Tumor Biology</i> , <b>2016</b> , 37, 7843-52	2.9	13
448	Low-Intensity Ultrasound Combined with Hematoporphyrin Monomethyl Ether in the Treatment of Experimental Periodontitis in Rats. <i>BioMed Research International</i> , <b>2016</b> , 2016, 7156716	3	5
447	Influence of phase transitions on green fluorescence intensity ratio in Er <sup>3+</sup> doped $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ ceramic. <i>Optics Express</i> , <b>2016</b> , 24, 29209-29215	3.3	14
446	Accurate thermometry based on the red and green fluorescence intensity ratio in $\text{NaYF}_4\text{:Yb, Er}$ nanocrystals for bioapplication. <i>Optics Letters</i> , <b>2016</b> , 41, 4664-4667	3	13
445	The effect of polymeric filler on poling behavior and thermal stability of 1-3 piezoelectric composites. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 025301	3	6
444	A single-mode Mn-doped $0.27\text{PIN}-0.46\text{PMN}-0.27\text{PT}$ single-crystal ultrasonic motor. <i>Journal of Electroceramics</i> , <b>2016</b> , 37, 121-126	1.5	6
443	Acoustic beam control in biomimetic projector via velocity gradient. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 013505	3.4	5
442	Phase coexistence and domain configuration in $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3-0.34\text{PbTiO}_3$ single crystal revealed by synchrotron-based X-ray diffractive three-dimensional reciprocal space mapping and piezoresponse force microscopy. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 152905	3.4	23

441	Temperature dependence of dielectric, elastic, and piezoelectric constants of [001] poled Mn-doped 0.24Pb(InNb)O-0.46Pb(MgNb)O-0.30PbTiO single crystal. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 082901	3.4	12
440	Origin of the deviation between the fluorescence intensity ratio of a thermally coupled level and the Boltzmann distribution law. <i>Europhysics Letters</i> , <b>2016</b> , 116, 60008	1.6	3
439	Coexistence of multiple positive and negative electrocaloric responses in (Pb, La)(Zr, Sn, Ti)O <sub>3</sub> single crystal. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 082904	3.4	43
438	Electric field induced upconversion fluorescence enhancement and its mechanism in Er <sup>3+</sup> doped 0.75Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -0.25PbTiO <sub>3</sub> transparent ceramic. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 132904	3.4	11
437	Effect of misfit strain on ferroelectric domain formation at the morphotropic phase boundary. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	5
436	Temperature dependence of full set tensor properties of KTiOPO <sub>4</sub> single crystal measured from one sample. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 124104	2.5	3
435	Switching 70Pb(MgNb)O-0.30PbTiO single crystal by 3 MHz bipolar field. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 232901	3.4	9
434	Characterizing full matrix constants of piezoelectric single crystals with strong anisotropy using two samples. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 164102	2.5	4
433	Quantitative lateral and vertical piezoresponse force microscopy on a PbTiO <sub>3</sub> single crystal. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 124106	2.5	8
432	Ultrahigh-sensitive optical temperature sensing based on ferroelectric Pr <sup>3+</sup> -doped (K <sub>0.5</sub> Na <sub>0.5</sub> )NbO <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2016</b> , 108, 061902	3.4	61
431	Phase coexistence in ferroelectric solid solutions: Formation of monoclinic phase with enhanced piezoelectricity. <i>AIP Advances</i> , <b>2016</b> , 6, 105208	1.5	10
430	Determination of full matrix material constants of [111] <sub>c</sub> poled Mn doped 0.24Pb(In <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> -0.46Pb (Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -0.30PbTiO <sub>3</sub> single-domain single crystal using one sample. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 064101	2.5	2
429	A precise Boltzmann distribution law for the fluorescence intensity ratio of two thermally coupled levels. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 241907	3.4	22
428	Formation mechanism of highly [0 0 1] <sub>c</sub> textured Pb(In <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> -Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> relaxor ferroelectric ceramics with giant piezoelectricity. <i>Journal of the European Ceramic Society</i> , <b>2016</b> , 36, 1973-1981	6	43
427	Temperature and concentration effects on upconversion photoluminescence properties of Ho <sup>3+</sup> and Yb <sup>3+</sup> codoped 0.67Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> 0.33PbTiO <sub>3</sub> multifunctional ceramics. <i>Ceramics International</i> , <b>2016</b> , 42, 11309-11313	5.1	20
426	Optical thermometry based on the red upconversion fluorescence of Er <sup>3+</sup> in CaWO <sub>4</sub> :Yb <sup>3+</sup> /Er <sup>3+</sup> polycrystalline powder. <i>Optics Letters</i> , <b>2016</b> , 41, 1458-61	3	31
425	Sensitive Electronic-Skin Strain Sensor Array Based on the Patterned Two-Dimensional Hn <sub>2</sub> Se <sub>3</sub> . <i>Chemistry of Materials</i> , <b>2016</b> , 28, 4278-4283	9.6	112
424	Local twin domains and tip-voltage-induced domain switching of monoclinic MC phase in Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> 0.34PbTiO <sub>3</sub> single crystal revealed by piezoresponse force microscopy. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	14

4 <sup>23</sup>	Electromechanical properties of Mn-doped $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ piezoelectric ceramics. <i>Ceramics International</i> , <b>2016</b> , 42, 15332-15337	5.1	30
4 <sup>22</sup>	Prolonged lifetime and retarded recombination in dye sensitized solar cells using hydrogenated fluorine doped $\text{TiO}_2$ nanocrystals as a photoanode. <i>RSC Advances</i> , <b>2016</b> , 6, 99251-99259	3.7	6
4 <sup>21</sup>	Vertical 2D $\text{MoO}_2/\text{MoSe}_2$ CoreShell Nanosheet Arrays as High-Performance Electrocatalysts for Hydrogen Evolution Reaction. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 8537-8544	15.6	134
4 <sup>20</sup>	Decatungstate acid improves the photo-induced electron lifetime and retards the recombination in dye sensitized solar cells. <i>Dalton Transactions</i> , <b>2016</b> , 45, 14940-7	4.3	8
4 <sup>19</sup>	Thermal and electromechanical properties of melilite-type piezoelectric single crystals. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 064106	2.5	19
4 <sup>18</sup>	White-light-emitting properties of $\text{SrTiO}_3\text{:Pr}^{3+}$ nanoparticles. <i>RSC Advances</i> , <b>2015</b> , 5, 27491-27495	3.7	21
4 <sup>17</sup>	Phase transitional behavior and electrical properties of $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ ternary ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 1874-1880	2.1	17
4 <sup>16</sup>	Electromechanical properties of orthorhombic $0.24\text{Pb}(\text{InNb})\text{O}-0.43\text{Pb}(\text{MgNb})\text{O}-0.33\text{PbTiO}$ single-domain crystal. <i>Materials Letters</i> , <b>2015</b> , 157, 163-165	3.3	3
4 <sup>15</sup>	Dielectric, elastic and piezoelectric properties of $\text{SrLaGa}_3\text{O}_7$ and $\text{BaLaGa}_3\text{O}_7$ crystals with Melilite structure. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 647, 1069-1074	5.7	14
4 <sup>14</sup>	Luminescence ratiometric oxygen sensor based on gadolinium labeled porphyrin and filter paper. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 215, 405-411	8.5	23
4 <sup>13</sup>	The efficacy and mechanism of apoptosis induction by hypericin-mediated sonodynamic therapy in THP-1 macrophages. <i>International Journal of Nanomedicine</i> , <b>2015</b> , 10, 821-38	7.3	20
4 <sup>12</sup>	Semiconductor/relaxor 0-3 type composites without thermal depolarization in $\text{Bi}_{1-x}\text{Na}_x\text{TiO}_3$ based lead-free piezoceramics. <i>Nature Communications</i> , <b>2015</b> , 6, 6615	17.4	197
4 <sup>11</sup>	5-Aminolevulinic acid-mediated sonodynamic therapy induces anti-tumor effects in malignant melanoma via p53-miR-34a-Sirt1 axis. <i>Journal of Dermatological Science</i> , <b>2015</b> , 79, 155-62	4.3	36
4 <sup>10</sup>	Mechanism of Gadolinium Doping Induced Room-Temperature Phosphorescence from Porphyrin. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 10558-10563	3.8	15
4 <sup>09</sup>	Theoretical study on phase coexistence in ferroelectric solid solutions near the tricritical point. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 134101	2.5	14
4 <sup>08</sup>	Optimization of electrooptic and piezoelectric coupling effects in tetragonal relaxor-PT ferroelectric single crystals. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 640, 64-67	5.7	7
4 <sup>07</sup>	Quantitative monitoring of the level of singlet oxygen using luminescence spectra of phosphorescent photosensitizer. <i>Optics Express</i> , <b>2015</b> , 23, 22991-3003	3.3	23
4 <sup>06</sup>	Effect of high bismuth deficiency on structure and oxide ion conductivity of a $\text{Bi}_{0.55}\text{MoO}_4$ single crystal. <i>CrystEngComm</i> , <b>2015</b> , 17, 8746-8751	3.3	3

405	Highly Stretchable and Conductive Core-Sheath Chemical Vapor Deposition Graphene Fibers and Their Applications in Safe Strain Sensors. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 6969-6975	9.6	93
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403	An insight into the origin of low-symmetry bridging phase and enhanced functionality in systems containing competing phases. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 042901	3.4	5
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247	Measurements of face shear properties in relaxor-PbTiO <sub>3</sub> single crystals. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 064106	2.5	46
246	Characterization of single domain Pb(In <sub>0.5</sub> Nb <sub>0.5</sub> )O <sub>3</sub> -Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> crystals with monoclinic phase. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 064108	2.5	35
245	Sonodynamic effect of an anti-inflammatory agent--emodin on macrophages. <i>Ultrasound in Medicine and Biology</i> , <b>2011</b> , 37, 1478-85	3.5	30
244	Modeling characterization and optimization design for PZT transducer used in Near Field Acoustic Levitation. <i>Sensors and Actuators A: Physical</i> , <b>2011</b> , 171, 260-265	3.9	17

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241	Poling field versus piezoelectric property for [001] oriented 91%Pb(ZnNb)O-9%PbTiO single crystals. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 1839-1845	4.3	9
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235	Ultraviolet upconversion luminescence of Gd <sup>3+</sup> from Ho <sup>3+</sup> and Gd <sup>3+</sup> codoped oxide ceramic induced by 532-nm CW laser excitation. <i>Optics Communications</i> , <b>2011</b> , 284, 3114-3117	2	7
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226	Face shear piezoelectric properties of relaxor-PbTiO(3) single crystals. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 182903	3.4	30

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223	Theoretical and experimental study on temperature elevation behind ribs caused by weakly focused ultrasound. <i>Ultrasound in Medicine and Biology</i> , <b>2010</b> , 36, 1704-12	3.5	11
222	Optical interband transitions in relaxor-based ferroelectric 0.93Pb(Zn <sub>13</sub> Nb <sub>23</sub> )O <sub>3</sub> -0.07PbTiO <sub>3</sub> single crystal. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 113532	2.5	25
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194	Orientation dependence of coupling between Lamb and shear horizontal waves in $(1-x)\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3-x\text{PbTiO}_3$ single crystal plates <b>2009</b> ,		1
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192	Constructing Landau-Ginzburg-Devonshire Type Models for Ferroelectric Systems Based on Symmetry. <i>Ferroelectrics</i> , <b>2008</b> , 375, 28-39	0.6	15
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173	Experimental technique for characterizing arbitrary aspect ratio piezoelectric resonators. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 162910	3.4	6
172	Complete set of elastic, dielectric, and piezoelectric coefficients of 0.93Pb(Zn <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> ·0.07PbTiO <sub>3</sub> single crystal poled along [011]. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 242908	3.4	64

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169	Theoretical studies on the pyroelectric properties of two component composite ferroelectric thin film. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2006</b> , 360, 357-361	2.3	4
168	Study of electric-field-induced phase transitions in [111] oriented 0.955Pb(Zn <sub>1-x</sub> Nb <sub>2-x</sub> /3)O <sub>3</sub> ·0.045PbTiO <sub>3</sub> single crystals. <i>Materials Letters</i> , <b>2005</b> , 59, 3276-3279	3.3	2
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165	Ferroelectric properties of neodymium-doped Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> thin films crystallized in different environments. <i>Thin Solid Films</i> , <b>2005</b> , 471, 35-39	2.2	23
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162	Intrinsic and Extrinsic Size Effects in Fine-Grained Morphotropic-Phase-Boundary Lead Zirconate Titanate Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 81, 677-688	3.8	778
161	Optical properties of highly C-oriented Bi <sub>3</sub> TiNbO <sub>9</sub> thin films grown on fused silica substrates by PLD. <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 81, 183-186	2.6	9
160	Aspect ratio dependence of electromechanical coupling coefficient of piezoelectric resonators. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 132901	3.4	30
159	Frequency dispersion of ultrasonic velocity and attenuation of longitudinal waves propagating in 0.68Pb(Mg <sub>1-x</sub> Nb <sub>2-x</sub> )O <sub>3</sub> ·0.32PbTiO <sub>3</sub> single crystals poled along [001] and [110]. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 182903	3.4	9
158	Raman spectroscopy study of ferroelectric modes in [001]-oriented 0.67Pb(Mg <sub>1-x</sub> Nb <sub>2-x</sub> )O <sub>3</sub> ·0.33PbTiO <sub>3</sub> single crystals. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 252903	3.4	41
157	Microstructure and ferroelectric properties of MnO <sub>2</sub> -doped bismuth-layer (Ca,Sr)Bi <sub>4</sub> Ti <sub>4</sub> O <sub>15</sub> ceramics. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 064108	2.5	89
156	Memory effect in [001] poled 0.92Pb(Zn <sub>1-x</sub> Nb <sub>2-x</sub> )O <sub>3</sub> ·0.08PbTiO <sub>3</sub> single crystals. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 192909	3.4	8
155	Numerical simulations of negative-index refraction in wedge-shaped metamaterials. <i>Physical Review E</i> , <b>2005</b> , 72, 016607	2.4	44
154	The elastic and piezoelectric properties of tungsten bronze ferroelectric crystals (Sr <sub>0.7</sub> Ba <sub>0.3</sub> ) <sub>2</sub> NaNb <sub>5</sub> O <sub>15</sub> and (Sr <sub>0.3</sub> Ba <sub>0.7</sub> ) <sub>2</sub> NaNb <sub>5</sub> O <sub>15</sub> . <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 094106	2.5	17

153	Domain-size dependence of piezoelectric properties of ferroelectrics. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	111
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150	Structural, dielectric and optical properties of barium strontium sodium niobate (Sr <sub>0.7</sub> Ba <sub>0.3</sub> ) <sub>2</sub> NaNb <sub>5</sub> O <sub>15</sub> single crystals. <i>Journal Physics D: Applied Physics</i> , <b>2004</b> , 37, 921-924	3	12
149	Transformed material coefficients for single-domain 0.67Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -0.33PbTiO <sub>3</sub> single crystals under differently defined coordinate systems. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 6380-6382	3.4	37
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147	Effects of postanneal conditions on the dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin films prepared on Pt/Ti/SiO <sub>2</sub> /Si substrates. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 6483-6485	2.5	92
146	Piezoelectric response of engineered domains in ferroelectrics. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 3450-3452	3.4	24
145	Elastic, piezoelectric, and dielectric properties of 0.58Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -0.42PbTiO <sub>3</sub> single crystal. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 549-554	2.5	126
144	Preparation and characterization of transparent PZNBLZT ceramics. <i>Journal of Materials Research</i> , <b>2004</b> , 19, 729-732	2.5	12
143	Electromechanical properties of fine-grain, 0.7 Pb(Mg(1/3)Nb(2/3))O <sub>3</sub> -0.3PbTiO <sub>3</sub> ceramics. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2004</b> , 51, 908-12	3.2	21
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139	Characterizing ultra-thin matching layers of high-frequency ultrasonic transducer based on impedance matching principle. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2004</b> , 51, 211-215	3.2	10
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131	Influence of imperfect surface on properties of ferroelectric thin film. <i>Microelectronic Engineering</i> , <b>2003</b> , 66, 818-824	2.5	19
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126	Allowed mesoscopic point group symmetries in domain average engineering of perovskite ferroelectric crystals. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 5220	2.5	8
125	Electric-field-induced dielectric anomalies in C-oriented 0.955Pb(Zn <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -0.045PbTiO <sub>3</sub> single crystals. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 731-733	3.4	12
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123	Switching Mechanism in Single Crystal 0.955Pb(Zn 1/3 Nb 2/3 )O 3 -0.045PbTiO 3. <i>Ferroelectrics</i> , <b>2003</b> , 290, 107-114	0.6	14
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121	Electric field effects on the phase transitions in [001]-oriented (1-x)Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -xPbTiO <sub>3</sub> single crystals with compositions near the morphotropic phase boundary. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	66
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118	Permissible symmetries of multi-domain configurations in perovskite ferroelectric crystals. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 3436-3445	2.5	23

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113	Complete set of material constants of 0.93Pb(Zn <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -0.07PbTiO <sub>3</sub> domain engineered single crystal. <i>Journal of Materials Science Letters</i> , <b>2002</b> , 21, 1877-1879		81
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107	Determination of full set material constants of piezoceramics from phase velocities. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 4578-4583	2-5	14
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85	Effect of defect induced nucleation and growth on switching behavior in ferroelectrics. <i>Ferroelectrics</i> , <b>2001</b> , 251, 191-198	0.6	3
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48	Grain size and domain size relations in bulk ceramic ferroelectric materials. <i>Journal of Physics and Chemistry of Solids</i> , <b>1996</b> , 57, 1499-1505	3.9	360
47	Finite element analysis and experimental studies on the thickness resonance of piezocomposite transducers. <i>Ultrasonic Imaging</i> , <b>1996</b> , 18, 1-9	1.9	7
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44	Effects of face plates and edge strips on hydrostatic piezoelectric response of 1-3 composites. <i>Ferroelectrics</i> , <b>1995</b> , 173, 243-256	0.6	2
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28	Theoretical model for the morphotropic phase boundary in lead zirconate-lead titanate solid solution. <i>Physical Review B</i> , <b>1993</b> , 47, 4825-4830	3.3	172

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24	Theory on the fringe patterns in the study of ferroelectric domain walls using electron holography. <i>Solid State Communications</i> , <b>1993</b> , 86, 435-439	1.6	14
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