Shujun Zhang

List of Publications by Year in Descending Order

557 papers	26,331 citations	76 h-index	142 g-index
596 ext. papers	32,092 ext. citations	6 avg, IF	7.6 L-index

#	Paper	IF	Citations
557	Giant room temperature compression and bending in ferroelectric oxide pillars.. *Nature Communications*, **2022**, 13, 335	17.4	4
556	Stability and low-energy orientations of interphase boundaries in multiaxial ferroelectrics: Phase-field simulations. *Physical Review B*, **2022**, 105,	3.3	1
555	Composition and Structure Optimized BiFeO -SrTiO Lead-Free Ceramics with Ultrahigh Energy Storage Performance.. *Small*, **2022**, e2106515	11	16
554	A robust, low-voltage driven millirobot based on transparent ferroelectric crystals. *Applied Physics Letters*, **2022**, 120, 032902	3.4	2
553	Influence of current density on microstructure and dielectric properties during the flash sintering of strontium titanate ceramics. *Journal of Alloys and Compounds*, **2022**, 903, 163843	5.7	
552	NaNbO3-CaTiO3 lead-free relaxor antiferroelectric ceramics featuring giant energy density, high energy efficiency and power density. *Chemical Engineering Journal*, **2022**, 429, 132534	14.7	3
551	Discovery of electric devil's staircase in perovskite antiferroelectric.. *Science Advances*, **2022**, 8, eabl9088	14.3	2
550	Ferroelectric crystals with giant electro-optic property enabling ultracompact Q-switches.. *Science*, **2022**, 376, 371-377	33.3	7
549	High Performance High-power Textured Mn/Cu-doped PIN-PMN-PT Ceramics. *Acta Materialia*, **2022** , 118015	8.4	0
548	Realizing Enhanced Energy Density in Ternary Polymer Blends by Intermolecular Structure Design. *Chemical Engineering Journal*, **2022**, 136980	14.7	3
547	Compositionally Graded KNN-based Multilayer Composite with Excellent Piezoelectric Temperature Stability.. *Advanced Materials*, **2021**, e2109175	24	14
546	Inverse Design of Ferroelectric-order in Perovskite Crystal for Self-powered Ultraviolet Photodetection.. *Advanced Materials*, **2021**, e2105108	24	3
545	Highly Transparent Eu-Doped 0.72PMN-0.28PT Ceramics with Excellent Piezoelectricity. *ACS Applied Materials & Interfaces*, **2021**, 13, 54210-54216	9.5	2
544	Superior energy storage BaTiO3-based amorphous dielectric film with polymorphic hexagonal and cubic nanostructures. *Chemical Engineering Journal*, **2021**, 431, 133447	14.7	2
543	Low-voltage magnetoelectric coupling in membrane heterostructures. *Science Advances*, **2021**, 7, eabh2294	14.3	6
542	Inverse Domain-Size Dependence of Piezoelectricity in Ferroelectric Crystals. *Advanced Materials*, **2021**, e2105071	24	6
541	Textured ferroelectric ceramics with high electromechanical coupling factors over a broad temperature range. *Nature Communications*, **2021**, 12, 1414	17.4	19

540	Modified Pb(Mg1/3Nb2/3)O3-PbZrO3-PbTiO3 ceramics with high piezoelectricity and temperature stability. *Journal of the American Ceramic Society*, **2021**, 104, 5127-5137	3.8	7
539	Enhanced Energy-Storage Properties and Good Temperature Stability in 0.92(Sr0.7Bi0.2)TiO3-0.08Bi(Mg0.5Hf0.5)O3 Relaxor Ferroelectric Ceramic. *Advanced Energy and Sustainability Research*, **2021**, 2, 2100015	1.6	1
538	High-performance textile piezoelectric pressure sensor with novel structural hierarchy based on ZnO nanorods array for wearable application. *Nano Research*, **2021**, 14, 3969	10	13
537	Tuning ferroelectricity of polymer blends for flexible electrical energy storage applications. *Science China Materials*, **2021**, 64, 1642-1652	7.1	3
536	Toroidal polar topology in strained ferroelectric polymer. *Science*, **2021**, 371, 1050-1056	33.3	24
535	Electroceramics for High-Energy Density Capacitors: Current Status and Future Perspectives. *Chemical Reviews*, **2021**, 121, 6124-6172	68.1	129
534	Direct observation of nanoscale dynamics of ferroelectric degradation. *Nature Communications*, **2021**, 12, 2095	17.4	7
533	In-situ domain structure characterization of Pb(Mg1/3Nb2/3)O3-PbTiO3 crystals under alternating current electric field poling. *Acta Materialia*, **2021**, 210, 116853	8.4	7
532	Temperature-insensitive PMN-PZ-PT ferroelectric ceramics for actuator applications. *Acta Materialia*, **2021**, 211, 116871	8.4	6
531	Microstructure and electrical properties of (K0.48Na0.52)0.97Li0.03NbO3 - 0.03CaZrO3 lead-free piezoceramics with (4CuO-TiO2-Nb2O5) additive. *Ceramics International*, **2021**, 47, 18886-18892	5.1	1
530	Structure and enhanced dielectric temperature stability of BaTiO3-based ceramics by Ca ion B site-doping. *Journal of Materiomics*, **2021**, 7, 295-301	6.7	6
529	Piezoelectric ceramics with high piezoelectricity and broad temperature usage range. *Journal of Materiomics*, **2021**, 7, 683-692	6.7	10
528	Ferroelastic Nanodomain-mediated Mechanical Switching of Ferroelectricity in Thick Epitaxial Films. *Nano Letters*, **2021**, 21, 445-452	11.5	2
527	Large electrostrain in Bi1/2Na1/2TiO3-based relaxor ferroelectrics: A case study of Bi1/2Na1/2TiO3-Bi1/2K1/2TiO3-Bi(Ni2/3Nb1/3)O3 ceramics. *Journal of Materiomics*, **2021**, 7, 593-602	6.7	12
526	Electro-mechano-optical properties of the Er3+ modified Bi0.5Na0.4K0.1TiO3 versatile ceramics. *Journal of the European Ceramic Society*, **2021**, 41, 2488-2496	6	3
525	Effects of Domain Wall Proximity on Nanoscale Polarization Switching in Relaxor-Ferroelectric Single Crystals. *Physica Status Solidi (A) Applications and Materials Science*, **2021**, 218, 2000506	1.6	0
524	Atomic-resolution electron microscopy of nanoscale local structure in lead-based relaxor ferroelectrics. *Nature Materials*, **2021**, 20, 62-67	27	37
523	Chemical Solution Route for High-Quality Multiferroic BiFeO Thin Films. *Small*, **2021**, 17, e1903663	11	15

522	Bi(Mg0.5Hf0.5)O3-modified SrTiO3 lead-free ceramics for high-temperature energy storage capacitors. *Journal of Materials Research*, **2021**, 36, 1171-1181	2.5	3
521	Giant power density produced by PINPMNPT ferroelectric single crystals due to a pressure induced polar-to-nonpolar phase transformation. *Journal of Materials Chemistry A*, **2021**, 9, 12307-12319	13	2
520	Manipulating ferroelectric behaviors via electron-beam induced crystalline defects. *Nanoscale*, **2021**, 13, 14330-14336	7.7	1
519	Flexophotovoltaic Effect in Potassium Sodium Niobate/Poly(Vinylidene Fluoride-Trifluoroethylene) Nanocomposite. *Advanced Science*, **2021**, 8, 2004554	13.6	6
518	Enhanced energy density and electric cycling reliability via MnO2 modification in sodium niobate-based relaxor dielectric capacitors. *Journal of Materials Research*, **2021**, 36, 1214-1222	2.5	6
517	The mechanism for the enhanced piezoelectricity in multi-elements doped (K,Na)NbO ceramics. *Nature Communications*, **2021**, 12, 881	17.4	25
516	Hydrogen Generation and Degradation of Organic Dyes by New Piezocatalytic 0.7BiFeO-0.3BaTiO Nanoparticles with Proper Band Alignment. *ACS Applied Materials & Interfaces*, **2021**, 13, 11050-11057	9.5	11
515	Lead-free ferroelectric materials: Prospective applications. *Journal of Materials Research*, **2021**, 36, 985-995	2.5	12
514	Inkjet Printing of Perovskite Nanosheets for Microcapacitors. *Advanced Electronic Materials*, **2021**, 7, 2100402	6.4	4
513	Phase diagrams, superdomains, and superdomain walls in K Na1-NbO3 epitaxial thin films. *Acta Materialia*, **2021**, 215, 117038	8.4	3
512	Enhanced energy storage performance of polymer nanocomposites using hybrid 2D ZnO@MoS2 semiconductive nano-fillers. *Chemical Engineering Journal*, **2021**, 430, 132676	14.7	11
511	Fluorescence intensity ratio (FIR) analysis of the temperature sensing properties in transparent ferroelectric PMN-PT:Pr3+ ceramic. *Ceramics International*, **2021**, 47, 24092-24097	5.1	3
510	High-temperature Vibration Sensor Based on Ba2TiSi2O8 Piezoelectric Crystal With Ultra-Stable Sensing Performance up to 650 °C. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 12850-12859	8.9	4
509	Optimization of Ferroelectric Ordering and Thermal Stability in NaBiTiO-Based Lead-Free Single Crystal through Defect Engineering.. *ACS Applied Materials & Interfaces*, **2021**, 13, 60995-61003	9.5	0
508	Flexoelectric control of physical properties by atomic force microscopy. *Applied Physics Reviews*, **2021**, 8, 041327	17.3	7
507	Graphitic carbon nitride with thermally-induced nitrogen defects: an efficient process to enhance photocatalytic H production performance.. *RSC Advances*, **2020**, 10, 18632-18638	3.7	8
506	Diffused morphotropic phase boundary in relaxor-PbTiO3 crystals: High piezoelectricity with improved thermal stability. *Applied Physics Reviews*, **2020**, 7, 021405	17.3	22
505	Colossal flexoresistance in dielectrics. *Nature Communications*, **2020**, 11, 2586	17.4	10

504	Solid-state crystal growth of lead-free ferroelectrics. *Journal of Materials Chemistry C*, **2020**, 8, 7606-7649	7.1	12
503	Grain-orientation-engineered multilayer ceramic capacitors for energy storage applications. *Nature Materials*, **2020**, 19, 999-1005	27	136
502	Flexible hybrid piezo/triboelectric energy harvester with high power density workable at elevated temperatures. *Journal of Materials Chemistry A*, **2020**, 8, 12003-12012	13	21
501	New Sm-PMN-PT Ceramic-Based 2-D Array for Low-Intensity Ultrasound Therapy Application. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2020**, 67, 2085-2094	3.2	6
500	Strain engineering of dischargeable energy density of ferroelectric thin-film capacitors. *Nano Energy*, **2020**, 72, 104665	17.1	26
499	MnO2 as an effective sintering aid for difficult-to-sinter LiTaO3-based ceramics: Densification and dielectric properties. *Journal of Alloys and Compounds*, **2020**, 829, 154546	5.7	3
498	Evaluation of Electroelastic Properties of YCOB and GdCOB Crystals Irradiated by 6 MeV Xe23+ Ions. *Crystal Growth and Design*, **2020**, 20, 2651-2659	3.5	4
497	Ultrahigh piezoelectricity in lead-free piezoceramics by synergistic design. *Nano Energy*, **2020**, 76, 104944	17.1	41
496	Ultrahigh Electromechanical Coupling and Its Thermal Stability in (Na1/2Bi1/2)TiO3-Based Lead-Free Single Crystals. *Crystals*, **2020**, 10, 435	2.3	0
495	Enhanced Energy Storage Performance of Sodium Niobate-Based Relaxor Dielectrics by a Ramp-to-Spike Sintering Profile. *ACS Applied Materials & Interfaces*, **2020**, 12, 32834-32841	9.5	37
494	Enhanced magnetic performance of BiFeO3 by cerium substitution. *Ceramics International*, **2020**, 46, 26205-26209	5.1	1
493	Hexagonal g-C3N4 nanotubes with Pt decorated surface towards enhanced photo- and electro-chemistry performance. *Journal of Alloys and Compounds*, **2020**, 826, 154145	5.7	21
492	Constructing Polymorphic Nanodomains in BaTiO3 Films via Epitaxial Symmetry Engineering. *Advanced Functional Materials*, **2020**, 30, 1910569	15.6	14
491	Ce and W co-doped CaBi2Nb2O9 with enhanced piezoelectric constant and electrical resistivity at high temperature. *Journal of Materiomics*, **2020**, 6, 459-466	6.7	17
490	Transparent ferroelectric crystals with ultrahigh piezoelectricity. *Nature*, **2020**, 577, 350-354	50.4	181
489	A progressive learning method for predicting the band gap of ABO3 perovskites using an instrumental variable. *Journal of Materials Chemistry C*, **2020**, 8, 3127-3136	7.1	14
488	Enhanced mechanical energy harvesting capability in sodium bismuth titanate based lead-free piezoelectric. *Journal of Alloys and Compounds*, **2020**, 825, 154020	5.7	25
487	Atomic-scale origin of ultrahigh piezoelectricity in samarium-doped PMN-PT ceramics. *Physical Review B*, **2020**, 101,	3.3	26

486	Decoding the Fingerprint of Ferroelectric Loops: Comprehension of the Material Properties and Structures **2020**, 21-104		1
485	Enhanced energy density and electric cycling reliability via MnO2 modification in sodium niobate-based relaxor dielectric capacitors **2020**, 36, 1214		1
484	Impact of Phase Structure on Piezoelectric Properties of Textured Lead-Free Ceramics. *Crystals*, **2020**, 10, 367	2.3	3
483	Piezoelectricity: An important property for ferroelectrics during last 100 years. *Wuli Xuebao/Acta Physica Sinica*, **2020**, 69, 217703	0.6	2
482	2D magnetic field sensing array using face-shear mode PMN-PT/Metglas composite. *Journal Physics D: Applied Physics*, **2020**, 53, 455306	3	0
481	Electrical conduction mechanism of rare-earth calcium oxyborate high temperature piezoelectric crystals. *Acta Materialia*, **2020**, 183, 165-171	8.4	4
480	Bi-modified SrTiO3-based ceramics for high-temperature energy storage applications. *Journal of the American Ceramic Society*, **2020**, 103, 1722-1731	3.8	47
479	Local Structure Heterogeneity in Sm-Doped AgNbO for Improved Energy-Storage Performance. *ACS Applied Materials & Interfaces*, **2020**, 12, 6097-6104	9.5	43
478	Phase-composition dependent domain responses in (K0.5Na0.5)NbO3-based piezoceramics. *Journal of the European Ceramic Society*, **2020**, 40, 1217-1222	6	5
477	Ultrahigh Energy Storage Properties in (SrBi)TiO-Bi(MgZr)O Lead-Free Ceramics and Potential for High-Temperature Capacitors. *Materials*, **2020**, 13,	3.5	22
476	Revisiting the structural stability and electromechanical properties in lead zinc niobate-lead titanate-barium titanate (PZN-PT-BT) ternary system. *Journal of the European Ceramic Society*, **2020**, 40, 1236-1242	6	4
475	Ultrahigh electro-strain in acceptor-doped KNN lead-free piezoelectric ceramics via defect engineering. *Acta Materialia*, **2020**, 200, 35-41	8.4	16
474	Giant tuning of ferroelectricity in single crystals by thickness engineering. *Science Advances*, **2020**, 6,	14.3	19
473	High piezoelectricity and stable output in BaHfO3 and (Bi0.5Na0.5)ZrO3 modified (K0.5Na0.5)(Nb0.96Sb0.04)O3 textured ceramics. *Acta Materialia*, **2020**, 199, 542-550	8.4	14
472	Lead-free antiferroelectric AgNbO3: Phase transitions and structure engineering for dielectric energy storage applications. *Journal of Applied Physics*, **2020**, 128, 070903	2.5	11
471	A high-temperature dielectric polymer poly(acrylonitrile butadiene styrene) with enhanced energy density and efficiency due to a cyano group. *Journal of Materials Chemistry A*, **2020**, 8, 15122-15129	13	20
470	Origin of large electric-field-induced strain in pseudo-cubic BiFeO3–BaTiO3 ceramics. *Acta Materialia*, **2020**, 197, 1-9	8.4	37
469	Rational Design and Synthesis of Ultra-Thin Ni(OH) Nanoplates for High Performance All-Solid-State Flexible Supercapacitors. *Frontiers in Chemistry*, **2020**, 8, 602322	5	6

468	High sensitivity face shear magneto-electric composite array for weak magnetic field sensing. *Journal of Applied Physics*, **2020**, 128, 064102	2.5	2
467	Significantly enhanced electrical properties in CaBi2Nb2O9-based high-temperature piezoelectric ceramics. *Applied Physics Letters*, **2020**, 117, 032902	3.4	14
466	Unveiling the ferrielectric nature of PbZrO-based antiferroelectric materials. *Nature Communications*, **2020**, 11, 3809	17.4	28
465	Complementing X-ray & Neutron Diffuse Scatter Analysis with STEM to Understand Relaxor Behavior. *Microscopy and Microanalysis*, **2020**, 26, 490-493	0.5	
464	Effects of the post-annealing reductive-atmosphere-sintered (K0.48Na0.52)NbO3 lead-free piezoceramics. *Ceramics International*, **2020**, 46, 27373-27380	5.1	0
463	Additive Manufacturing of Piezoelectric Materials. *Advanced Functional Materials*, **2020**, 30, 2005141	15.6	84
462	Constructing phase boundary in AgNbO antiferroelectrics: pathway simultaneously achieving high energy density and efficiency. *Nature Communications*, **2020**, 11, 4824	17.4	97
461	(Ba,Sr)TiO3Bi(Mg,Hf)O3 Lead-Free Ceramic Capacitors with High Energy Density and Energy Efficiency. *ACS Applied Energy Materials*, **2020**, 3, 12254-12262	6.1	4
460	Temperature Monitorable Kinetics Study of Human Blood Coagulation by Utilizing a Dual-Mode AlN-Based Acoustic Wave Resonator. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2020**, 67, 131-135	3.2	5
459	Excellent thermal stability and aging behaviors in BiFeO3-BaTiO3 piezoelectric ceramics with rhombohedral phase. *Journal of the American Ceramic Society*, **2020**, 103, 374-381	3.8	40
458	Ferroelectric domain structures and temperature-misfit strain phase diagrams of K1-xNaxNbO3 thin films: A phase-field study. *Applied Physics Letters*, **2019**, 115, 092902	3.4	14
457	Thermal energy harvesting performance in 0.94Bi0.5Na0.5TiO3-0.06BaZr0.2Ti0.8O3: AlN composite ceramics based on the Olsen cycle. *Journal of the European Ceramic Society*, **2019**, 39, 5243-5251	6	9
456	Enhanced flexoelectricity at reduced dimensions revealed by mechanically tunable quantum tunnelling. *Nature Communications*, **2019**, 10, 537	17.4	34
455	Enhanced antiferroelectric phase stability in La-doped AgNbO3: perspectives from the microstructure to energy storage properties. *Journal of Materials Chemistry A*, **2019**, 7, 2225-2232	13	122
454	Investigation of dielectric and piezoelectric properties in aliovalent Eu3+-modified Pb(Mg1/3Nb2/3)O3-PbTiO3 ceramics. *Journal of the American Ceramic Society*, **2019**, 102, 7428-7435	3.8	29
453	Flexoelectricity in solids: Progress, challenges, and perspectives. *Progress in Materials Science*, **2019**, 106, 100570	42.2	123
452	An amorphous MoS modified g-CN composite for efficient photocatalytic hydrogen evolution under visible light.. *RSC Advances*, **2019**, 9, 15900-15909	3.7	14
451	Dielectric and Piezoelectric Properties of Textured Lead-Free Na0.5Bi0.5TiO3-Based Ceramics. *Crystals*, **2019**, 9, 206	2.3	12

450	Electrical polarization induced by atomically engineered compositional gradient in complex oxide solid solution. *NPG Asia Materials*, **2019**, 11,	10.3	4
449	Flexible piezoelectric energy harvester/sensor with high voltage output over wide temperature range. *Nano Energy*, **2019**, 61, 337-345	17.1	47
448	Ultra-high energy storage performance with mitigated polarization saturation in lead-free relaxors. *Journal of Materials Chemistry A*, **2019**, 7, 8573-8580	13	115
447	Understanding, Predicting, and Designing Ferroelectric Domain Structures and Switching Guided by the Phase-Field Method. *Annual Review of Materials Research*, **2019**, 49, 127-152	12.8	60
446	(Bi0.51 Na0.47)TiO3 based lead free ceramics with high energy density and efficiency. *Journal of Materiomics*, **2019**, 5, 385-393	6.7	60
445	Direct observation of weakened interface clamping effect enabled ferroelastic domain switching. *Acta Materialia*, **2019**, 171, 184-189	8.4	8
444	Enhanced electrical properties related to structural distortion of CaBi2Nb2O9-based piezoelectric ceramics. *Journal of the American Ceramic Society*, **2019**, 102, 1287-1295	3.8	17
443	Ultrahigh-energy density lead-free dielectric films via polymorphic nanodomain design. *Science*, **2019**, 365, 578-582	33.3	353
442	Smart machine learning or discovering meaningful physical and chemical contributions through dimensional stacking. *Npj Computational Materials*, **2019**, 5,	10.9	12
441	Electric-field control of the remanent-magnetic-state relaxation in a piezoelectric-ferromagnetic PZT-5%Fe3O4 composite. *Journal of Applied Physics*, **2019**, 126, 044104	2.5	2
440	Tailoring properties of (Bi0.51Na0.47)TiO3 based dielectrics for energy storage applications. *Journal of the European Ceramic Society*, **2019**, 39, 4752-4760	6	22
439	Ultrahigh Energy-Storage Density in NaNbO3-Based Lead-Free Relaxor Antiferroelectric Ceramics with Nanoscale Domains. *Advanced Functional Materials*, **2019**, 29, 1903877	15.6	204
438	Multilayer PZT 95/5 Antiferroelectric Film Energy Storage Devices with Giant Power Density. *Advanced Materials*, **2019**, 31, e1904819	24	25
437	The PZT/Ni unimorph magnetoelectric energy harvester for wireless sensing applications. *Energy Conversion and Management*, **2019**, 200, 112084	10.6	20
436	Mechanisms underpinning the ultrahigh piezoelectricity in Sm-doped 0.705Pb(Mg1/3Nb2/3)O3-0.295PbTiO3: Temperature-induced metastable local structure and field-induced polarization rotation. *Journal of Applied Physics*, **2019**, 126, 075101	2.5	4
435	High-Performance Sm-Doped Pb(MgNb)O-PbZrO-PbTiO-Based Piezoceramics. *ACS Applied Materials & Interfaces*, **2019**, 11, 43359-43367	9.5	35
434	Giant piezoelectricity of Sm-doped Pb(MgNb)O-PbTiO single crystals. *Science*, **2019**, 364, 264-268	33.3	242
433	Pronounced and reversible modulation of the piezoelectric coefficients by a low magnetic field in a magnetoelectric PZT-5%FeO system. *Scientific Reports*, **2019**, 9, 2178	4.9	4

432	Electrical properties of yttrium calcium oxyborate crystal annealed at high temperature and low oxygen partial pressure. *Journal of Materiomics*, **2019**, 5, 363-371	6.7	6
431	An environmentally-benign NaNbO3 based perovskite antiferroelectric alternative to traditional lead-based counterparts. *Journal of Materials Chemistry C*, **2019**, 7, 15153-15161	7.1	21
430	Achieving ultrahigh energy storage performance in bismuth magnesium titanate film capacitors via amorphous-structure engineering. *Journal of Materials Chemistry C*, **2019**, 7, 13632-13639	7.1	22
429	The evaluation of super-capacitive performance of novel g-C3N4/PPy nanocomposite electrode material with sandwich-like structure. *Composites Part B: Engineering*, **2019**, 162, 369-377	10	38
428	Atmospheric controlled processing enabling highly textured NKN with enhanced piezoelectric performance. *Journal of the European Ceramic Society*, **2019**, 39, 963-972	6	10
427	Perovskite lead-free dielectrics for energy storage applications. *Progress in Materials Science*, **2019**, 102, 72-108	42.2	558
426	Thermal Expansion and Electro-Elastic Features of Ba2TiSi2O8 High Temperature Piezoelectric Crystal. *Crystals*, **2019**, 9, 11	2.3	6
425	Ultrahigh Energy-Storage Density in Antiferroelectric Ceramics with Field-Induced Multiphase Transitions. *Advanced Functional Materials*, **2019**, 29, 1807321	15.6	149
424	Enhanced energy storage and fast discharge properties of BaTiO3 based ceramics modified by Bi(Mg1/2Zr1/2)O3. *Journal of the European Ceramic Society*, **2019**, 39, 1103-1109	6	111
423	Gradient chemical order in the relaxor Pb(Mg1⁄3Nb2⁄3)O3. *Applied Physics Letters*, **2018**, 112, 082901	3.4	15
422	Stabilized antiferroelectricity in xBiScO3-(1-x)NaNbO3 lead-free ceramics with established double hysteresis loops. *Applied Physics Letters*, **2018**, 112, 092905	3.4	35
421	Complete stress-induced depolarization of relaxor ferroelectric crystals without transition through a non-polar phase. *Applied Physics Letters*, **2018**, 112, 122903	3.4	20
420	High-Performance Ultrasound Needle Transducer Based on Modified PMN-PT Ceramic With Ultrahigh Clamped Dielectric Permittivity. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2018**, 65, 223-230	3.2	15
419	Control of superconductivity by means of electric-field-induced strain in superconductor/piezoelectric hybrids. *Journal of Applied Physics*, **2018**, 123, 023903	2.5	2
418	Superconducting thermomagnetic instabilities tuned through electric-field-controlled strain in Nb/PMN-PT/Nb hybrids. *Physica C: Superconductivity and Its Applications*, **2018**, 544, 33-39	1.3	
417	Ultrahigh Piezoelectric Properties in Textured (K,Na)NbO -Based Lead-Free Ceramics. *Advanced Materials*, **2018**, 30, 1705171	24	254
416	High-Performance Piezoelectric Crystals, Ceramics, and Films. *Annual Review of Materials Research*, **2018**, 48, 191-217	12.8	76
415	Ultrahigh piezoelectricity in ferroelectric ceramics by design. *Nature Materials*, **2018**, 17, 349-354	27	513

414	Selective control of multiple ferroelectric switching pathways using a trailing flexoelectric field. *Nature Nanotechnology*, **2018**, 13, 366-370	28.7	77
413	Pyroelectric properties of Mn-doped Aurivillius ceramics with different pseudo-perovskite layers. *Journal of the American Ceramic Society*, **2018**, 101, 1592-1597	3.8	10
412	Local Structural Heterogeneity and Electromechanical Responses of Ferroelectrics: Learning from Relaxor Ferroelectrics. *Advanced Functional Materials*, **2018**, 28, 1801504	15.6	149
411	Control of Both Superconducting Critical Temperature and Critical Current by Means of Electric-Field-Induced Reconfigurable Strain. *Journal of Superconductivity and Novel Magnetism*, **2018**, 31, 3147-3152	1.5	
410	Flexible energy harvesting polymer composites based on biofibril-templated 3-dimensional interconnected piezoceramics. *Nano Energy*, **2018**, 50, 35-42	17.1	66
409	Microscopic Insight into Electric Fatigue Resistance and Thermally Stable Piezoelectric Properties of (K,Na)NbO-Based Ceramics. *ACS Applied Materials & Interfaces*, **2018**, 10, 28772-28779	9.5	56
408	Antiferroelectrics: Multilayer Lead-Free Ceramic Capacitors with Ultrahigh Energy Density and Efficiency (Adv. Mater. 32/2018). *Advanced Materials*, **2018**, 30, 1870240	24	1
407	Enhanced pyroelectric and piezoelectric responses in W/Mn-codoped Bi4Ti3O12 Aurivillius ceramics. *Journal of the European Ceramic Society*, **2018**, 38, 5348-5353	6	36
406	Recent Developments in Piezoelectric Crystals. *Journal of the Korean Ceramic Society*, **2018**, 55, 419-439	2.2	62
405	Review of high temperature piezoelectric materials, devices, and applications. *Wuli Xuebao/Acta Physica Sinica*, **2018**, 67, 207701	0.6	24
404	Tunable dielectric resonance with negative permittivity behavior of BiFeO3-Bi2Fe4O9 composite at about 1 GHz. *Journal of Alloys and Compounds*, **2018**, 735, 2081-2086	5.7	7
403	Enhanced ferroelectricity of CaBi2Nb2O9-based high-temperature piezoceramics by pseudo-tetragonal distortion. *Ceramics International*, **2018**, 44, 5880-5885	5.1	19
402	Tunneling Hot Spots in Ferroelectric SrTiO. *Nano Letters*, **2018**, 18, 491-497	11.5	23
401	Silver Niobate Lead-Free Antiferroelectric Ceramics: Enhancing Energy Storage Density by B-Site Doping. *ACS Applied Materials & Interfaces*, **2018**, 10, 819-826	9.5	195
400	Lead-free textured piezoceramics using tape casting: A review. *Journal of Materiomics*, **2018**, 4, 277-303	6.7	45
399	Development of a KNN Ceramic-Based Lead-Free Linear Array Ultrasonic Transducer. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2018**, 65, 2113-2120	3.2	19
398	Tailoring the energy storage performance of polymer nanocomposites with aspect ratio optimized 1D nanofillers. *Journal of Materials Chemistry A*, **2018**, 6, 20356-20364	13	44
397	Structural stability and electro-elastic property of YCOB crystal annealed in harsh environment. *Applied Physics Letters*, **2018**, 113, 122905	3.4	9

396	Ferroelectrics: Local Structural Heterogeneity and Electromechanical Responses of Ferroelectrics: Learning from Relaxor Ferroelectrics (Adv. Funct. Mater. 37/2018). *Advanced Functional Materials*, **2018**, 28, 1870262	15.6	34
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