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2025

Relationships between structure and properties in commercial lead zirconate titanate (PZT) piezoceramics.

. *Journal of Materiomics* vol. 11, (5) 101052-101052.Elsevier Bv.

Direct magnetoelectric coupling from magnetically/ferroelectrically active cation in low-symmetry octahedron.

. *Physical Review B* vol. 112, (5).American Physical Society (Aps).

Tunable and anomalous electrocaloric behaviors in Bi_{0.5}Na_{0.5}TiO₃-based relaxor enabled by dynamics of polar nanoregions.

. *Acta Materialia* vol. 293, 121093-121093.Elsevier Bv.

Unveiling the mechanism of substitution-induced high piezoelectric performance in PLZT ceramics.

. *Journal of Advanced Ceramics* vol. 14, (7) 9221097-9221097.Tsinghua University Press.

Phase Transitions in Bi/Ca Modified AgNbO₃ Ceramics with Excellent Energy Storage Density and Storage Intensity.

. *Small*.Wiley.

Enhanced electrocaloric effect in lead-free relaxor ferroelectrics via point defect engineering.

. *Applied Physics Letters* vol. 126, (23).Aip Publishing.

Dislocation-nanoparticle interactions in TiB₂p/Cu composites based on molecular dynamics and experiments.

. *Journal of Alloys and Compounds* vol. 1033, 181256-181256.Elsevier Bv.

Low cost small scale recycling aluminium cans for energy conservation and environmental sustainability.

. *Environmental Technology* 1-8.Informa Uk Limited.

Boosting energy density by frustration.

. *Science China Materials* vol. 68, (6) 2148-2149.Springer Science and Business Media Llc.

Phase transformation in lead titanate based relaxor ferroelectrics with ultra-high strain.

. *Nature Communications* vol. 16, (1).Springer Science and Business Media Llc.

Investigation of electric field-induced phase transitions in unfilled tungsten bronze relaxor ceramics designed by the high entropy concept.

. *Acta Materialia* vol. 284, 120593-120593.Elsevier Bv.

Healing fillermatrix interfaces in drawn BN/UHMWPE composites by a simple thermal annealing treatment.

. *Rsc Applied Polymers* vol. 3, (2) 361-369.Royal Society of Chemistry (Rsc).

Non-volatile voltage-controlled magnetization in single-phase multiferroic ceramics at room temperature.

. *Journal of Materiomics* vol. 11, (1) 100857-100857.Elsevier Bv.

2024

Dielectric probing of low-temperature degradation resistance of commercial zirconia bio-ceramics.

. *Dental Materials* vol. 40, (6) 921-929.Elsevier Bv.

Dielectric relaxation and conductivity phenomena in ferroelectric ceramics at high temperatures.

. *Journal of The European Ceramic Society* vol. 44, (5) 2886-2902.Elsevier Bv.

Processing and characterisation of hot rolling pressed PVDF films with enhanced field-induced polarisation.

. *Polymer* vol. 302, 127001-127001.Elsevier Bv.

Microwave tunability in tin substituted barium titanate.

. *Journal of The European Ceramic Society* vol. 44, (3) 1627-1635.Elsevier Bv.

Origin of Polarization in Bismuth Sodium Titanate-Based Ceramics.

. *Journal of The American Chemical Society* vol. 146, (8) 5569-5579.American Chemical Society (Acs).

High-temperature dielectric polymer composite for high power energy storage applications.

. *Science China Chemistry* vol. 67, (8) 2425-2426.Springer Science and Business Media Llc.

Ferroelectric anomaly of perovskite layer structured Pb₂+doped Sr₂Nb₂O₇ ceramics.

. *Journal of The American Ceramic Society* vol. 107, (6) 3989-3999.Wiley.

Microstructure evolution and the deformation mechanism in nanocrystalline superior-deformed tantalum.

. *Nanoscale* vol. 16, (9) 4826-4840.Royal Society of Chemistry (Rsc).

2023

High Thermoelectric Performance Related to PVDF Ferroelectric Domains in PType Flexible PVDFBi_{0.5}Sb_{1.5}Te₃ Composite Film.

. *Small* vol. 20, (19).Wiley.

Structure and dielectric properties in Mg/Nb co-substituted bismuth sodium titanate.

. *Journal of Alloys and Compounds* vol. 969, 172385-172385.Elsevier Bv.

Energy storage properties of samarium-doped bismuth sodium titanate-based lead-free ceramics.

. *Chemical Engineering Journal* vol. 473, 145363-145363.Elsevier Bv.

BROADBAND DIELECTRIC CHARACTERIZATION OF CARBON BLACKREINFORCED NATURAL RUBBER.

. *Rubber Chemistry and Technology* vol. 96, (4) 656-666.Rubber Division, Acs.

Fundamentals, advances and perspectives of piezocatalysis: A marriage of solid-state physics and catalytic chemistry.

. *Progress in Materials Science* vol. 138, 101161-101161.Elsevier Bv.

Microwave characterization of two Ba_{1-x}0.6Sr_x0.4TiO₃ dielectric thin films with out-of-plane and in-plane electrode structures.

. *Journal of Advanced Ceramics* vol. 12, (8) 1521-1532.Tsinghua University Press.

Structure and Conductivity in LISICON Analogues within the Li₄GeO₄Li₂MoO₄ System.

. *Inorganic Chemistry* vol. 62, (30) 11876-11886.American Chemical Society (Acs).

Simultaneous Increase in Dielectric Breakdown Strength and Thermal Conductivity of Oriented UHMWPE Containing Diamond Nanoparticles.

. *Macromolecules* vol. 56, (20) 8183-8191.American Chemical Society (Acs).

Enhanced piezoelectricity in Na and Ce co-doped CaBi_{1-x}4Ti_x4O₁₅ ceramics for high-temperature applications.

. *Journal of Advanced Ceramics* vol. 12, (7) 1331-1344.Tsinghua University Press.

Structural evolution and coexistence of ferroelectricity and antiferromagnetism in Fe, Nb co-doped BaTiO₃ ceramics.

. *Journal of The European Ceramic Society* vol. 43, (6) 2460-2468.Elsevier Bv.

High-entropy MTiO₃ perovskite oxides with glass-like thermal conductivity for thermoelectric applications.

. *Journal of Alloys and Compounds* vol. 937, 168366-168366.Elsevier Bv.

Magnetoelectric coupling at microwave frequencies observed in bismuth ferrite-based multiferroics at room temperature.

. *Journal of Materials Science & Technology* vol. 137, 100-103.Elsevier Bv.

Achieving Ultrahigh Energy Storage Density of La and Ta Codoped AgNbO₃ Ceramics by Optimizing the Field-Induced Phase Transitions.

. *Acs Applied Materials & Interfaces* vol. 15, (3) 4246-4256.American Chemical Society (Acs).

Effect of Ag⁺ doping and Ag addition on the thermoelectric properties of KSr₂Nb₅O₁₅.

. *Ceramics International* vol. 49, (2) 1731-1741.Elsevier Bv.

Relaxor ferroelectric behaviour observed in (Ca_{0.5}Sr_{0.5}Ba_{0.5}Pb_{0.5})Nb₂O₇ perovskite layered structure ceramics.

. *Journal of The European Ceramic Society* vol. 43, (1) 177-182.Elsevier Bv.

Deciphering the peculiar hysteresis loops of 0.05Pb(Mn_{1/3}Sb_{2/3})O₃0.95Pb(Zr_{0.52}Ti_{0.48})O₃ piezoelectric ceramics.

. *Acta Materialia* vol. 244, 118563-118563.Elsevier Bv.

Origin of the switchable photocurrent direction in BiFeO₃ thin films.

. *Materials Horizons* vol. 10, (12) 5892-5897.Royal Society of Chemistry (Rsc).

2022

Local Structure in -BIMEVOXes (ME = Ge, Sn).

. *Chemistry of Materials* vol. 35, (1) 189-206.American Chemical Society (Acs).

Antiferroelectric-like Behavior in a Lead-Free Perovskite Layered Structure Ceramic.

. *Inorganic Chemistry* vol. 61, (50) 20316-20325.American Chemical Society (Acs).

Grain orientation evolution and multi-scale interfaces enhanced thermoelectric properties of textured Sr_{0.9}La_{0.1}TiO₃ based ceramics.

. *Journal of The European Ceramic Society* vol. 42, (15) 7017-7026.Elsevier Bv.

In-situ growth of carbon nanotubes on ZnO to enhance thermoelectric and mechanical properties.

. *Journal of Advanced Ceramics* vol. 11, (12) 1932-1943.Tsinghua University Press.

Stability of 3Y-TZP nano zirconia powder after hydrothermal ageing treatment.

. *Advances in Applied Ceramics* vol. 121, (5-8) 159-165.Sage Publications.

Terahertz Faraday Rotation of SrFe₁₂O₁₉ Hexaferrites Enhanced by Nb Doping.

. *Acs Applied Materials & Interfaces* vol. 14, (41) 46738-46747.American Chemical Society (Acs).

Dielectric polymer composites with ultra-high thermal conductivity and low dielectric loss.

. *Composites Science and Technology* vol. 229, 109695-109695.Elsevier Bv.

Effect of composition on the dielectric properties and thermal conductivity of -SiAlON ceramics.

. *Journal of Materials Science: Materials in Electronics* vol. 33, (28) 22480-22491.Springer Science and Business Media Llc.

Low thermal conductivity in A-site high entropy perovskite relaxor ferroelectric.

. *Applied Physics Letters* vol. 121, (11).Aip Publishing.

Enhancement of Thermoelectric Performance in Bi_{0.5}Sb_{1.5}Te₃ Particulate Composites Including Ferroelectric BaTiO₃ Nanodots.

. *Acs Applied Materials & Interfaces* vol. 14, (32) 37204-37212.American Chemical Society (Acs).

A novel high-entropy perovskite ceramics Sr_{0.9}La_{0.1}(Zr_{0.25}Sn_{0.25}Ti_{0.25}Hf_{0.25})O₃ with low thermal conductivity and high Seebeck coefficient.

. *Journal of The European Ceramic Society* vol. 42, (8) 3480-3488.Elsevier Bv.

Temperature dependence in ageing process in commercial zirconia dental ceramics.

. *Advances in Applied Ceramics* vol. 121, (4) 150-153. Sage Publications.

Low-cost Free-standing ferroelectric polymer films with high polarization produced via pressing-and-folding.

. *Journal of Materiomics* vol. 8, (3) 640-648. Elsevier Bv.

Effect of La³⁺, Ag⁺ and Bi³⁺ doping on thermoelectric properties of SrTiO₃: First-principles investigation.

. *Ceramics International* vol. 48, (10) 13803-13816. Elsevier Bv.

Phase transformations in an Aurivillius layer structured ferroelectric designed using the high entropy concept.

. *Acta Materialia* vol. 229, 117815-117815. Elsevier Bv.

Chemical Solution Deposition of SinglePhase BiFeO₃ Thin Films on Transparent Substrates.

. *Solar Rrl* vol. 6, (7). Wiley.

Enhanced energy storage performance under low electric field in Sm³⁺ doped AgNbO₃ ceramics.

. *Journal of Materiomics* vol. 8, (2) 266-273. Elsevier Bv.

Reduced lattice thermal conductivity of perovskite-type high-entropy (Ca_{0.25}Sr_{0.25}Ba_{0.25}RE_{0.25})TiO₃ ceramics by phonon engineering for thermoelectric applications.

. *Journal of Alloys and Compounds* vol. 898, 162858-162858. Elsevier Bv.

Local Structure and Conductivity in the BIGAVOX System.

. *The Journal of Physical Chemistry C* vol. 126, (4) 2108-2120. American Chemical Society (Acs).

Temperature-dependent deformation in silver-particle-covered copper nanowires by molecular dynamics simulation.

. *Journal of Materiomics* vol. 8, (1) 68-78. Elsevier Bv.

Exploration about superior anti-counterfeiting ability of Sm³⁺ doped KSr₂Nb₅O₁₅ photochromic ceramics: Origin and atomic-scale mechanism.

. *Journal of Materiomics* vol. 8, (1) 38-46. Elsevier Bv.

High-entropy (Ca_{0.2}Sr_{0.2}Ba_{0.2}La_{0.2}Pb_{0.2})TiO₃ perovskite ceramics with A-site short-range disorder for thermoelectric applications.

. *Journal of Materials Science & Technology* vol. 97, 182-189. Elsevier Bv.

Local structure in a tetravalent-substituent BIMEVOX system: BIGEVOX.

. *Journal of Materials Chemistry A* vol. 10, (7) 3793-3807. Royal Society of Chemistry (Rsc).

Ultra-high energy density integrated polymer dielectric capacitors.

. *Journal of Materials Chemistry A* vol. 10, (18) 10171-10180. Royal Society of Chemistry (Rsc).

Silver niobate perovskites: structure, properties and multifunctional applications.

. *Journal of Materials Chemistry A* vol. 10, (28) 14747-14787. Royal Society of Chemistry (Rsc).

2021

Grain Size Effects in Mn-Modified 0.67BiFeO₃0.33BaTiO₃ Ceramics.

. *Acs Applied Materials & Interfaces* vol. 13, (48) 57548-57559. American Chemical Society (Acs).

Terahertz Characterization of Lead-Free Dielectrics for Different Applications.

. *Acs Applied Materials & Interfaces* vol. 13, (45) 53492-53503. American Chemical Society (Acs).

Characterization of microwave and terahertz dielectric properties of single crystal La₂Ti₂O₇ along one single direction.

. *Journal of The European Ceramic Society* vol. 41, (14) 7375-7379. Elsevier Bv.

Electric field-induced transformations in bismuth sodium titanate-based materials.

. *Progress in Materials Science* vol. 122, 100837-100837. Elsevier Bv.

Terahertz probing of lowtemperature degradation in zirconia bioceramics.

. *Journal of The American Ceramic Society* vol. 105, (2) 1106-1115.Wiley.

Cationic polymer brush-coated bioglass nanoparticles for the design of bioresorbable RNA delivery vectors.

. *European Polymer Journal* vol. 156, 110593-110593.Elsevier Bv.

Structural Evolution in BiNbO₄.

. *Inorganic Chemistry* vol. 60, (12) 8507-8518.American Chemical Society (Acs).

Low-loss high entropy relaxor-like ferroelectrics with A-site disorder.

. *Journal of The European Ceramic Society* vol. 41, (4) 2979-2985.Elsevier Bv.

Terahertz Reading of Ferroelectric Domain Wall Dielectric Switching.

. *Acs Applied Materials & Interfaces* vol. 13, (10) 12622-12628.American Chemical Society (Acs).

Grain orientation evolution and thermoelectric properties of textured (Ca_{0.87}Ag_{0.1}La_{0.03})₃Co₄O₉ ceramics prepared by tape casting.

. *Ceramics International* vol. 47, (6) 8365-8374.Elsevier Bv.

Temperature-dependent deformation processes in two-phase TiAl+Ti₃Al nano-polycrystalline alloys.

. *Materials & Design* vol. 199, 109422-109422.Elsevier Bv.

Multi elements substituted Aurivillius phase relaxor ferroelectrics using high entropy design concept.

. *Materials & Design* vol. 200, 109447-109447.Elsevier Bv.

Effect of processing on the structures and properties of bismuth sodium titanate compounds.

. *Journal of Materials Research* vol. 36, (5) 1195-1205.Springer Science and Business Media Llc.

Response to comment on point defect structure of La-doped SrTiO₃ ceramics with colossal permittivity.

. *Scripta Materialia* vol. 190, 118-120.Elsevier Bv.

Perovskite Bi_{0.5}Na_{0.5}TiO₃-based materials for dielectric capacitors with ultrahigh thermal stability.

. *Materials & Design* vol. 198, 109344-109344.Elsevier Bv.

Investigation of transitions between the M-phases in AgNbO₃ based ceramics.

. *Journal of Materials Chemistry A* vol. 9, (6) 3520-3529.Royal Society of Chemistry (Rsc).

Tunable phase transitions in NaNbO₃ ceramics through bismuth/vacancy modification.

. *Journal of Materials Chemistry C* vol. 9, (12) 4289-4299.Royal Society of Chemistry (Rsc).

Facile one-step synthesis and enhanced photocatalytic activity of a WC/ferroelectric nanocomposite.

. *Journal of Materials Chemistry A* vol. 9, (40) 22861-22870.Royal Society of Chemistry (Rsc).

2020

Ultrafast Electric Field-Induced Phase Transition in Bulk Bi_{0.5}Na_{0.5}TiO₃ under High-Intensity Terahertz Irradiation.

. *Acs Photonics* vol. 8, (1) 147-151.American Chemical Society (Acs).

High Tunability and Low Loss in Layered Perovskite Dielectrics through Intrinsic Elimination of Oxygen Vacancies.

. *Chemistry of Materials* vol. 32, (23) 10120-10129.American Chemical Society (Acs).

Phase transitions in RbPrNb₂O₇, a layer structuredferroelectric with a high Curie point.

. *Acta Materialia* vol. 200, 971-979.Elsevier Bv.

Ultrahigh field-induced strain in lead-free ceramics.

. *Nano Energy* vol. 76, 105037-105037.Elsevier Bv.

Ferroelectric and photocatalytic properties of Aurivillius phase Ca₂Bi₄Ti₅O₁₈.

. *Journal of The American Ceramic Society* vol. 104, (1) 322-328.Wiley.

Polar nano-clusters in nominally paraelectric ceramics demonstrating high microwave tunability for wireless communication.

. *Journal of The European Ceramic Society* vol. 40, (12) 3996-4003.Elsevier Bv.

Enhanced dielectric properties of highly dense Ba_{0.5}Sr_{0.5}TiO₃ ceramics via non-toxic gelcasting.

. *Journal of Materials Science: Materials in Electronics* vol. 31, (20) 17819-17827.Springer Science and Business Media Llc.

Publisher's Note: Room-temperature multiferroic behavior in layer-structured Aurivillius phase ceramics [Appl. Phys Lett. 117, 052903 (2020)].

. *Applied Physics Letters* vol. 117, (9).Aip Publishing.

Solution-Processed Epitaxial Growth of Arbitrary Surface Nanopatterns on Hybrid Perovskite Monocrystalline Thin Films.

. *Acs Nano* vol. 14, (9) 11029-11039.American Chemical Society (Acs).

Domain Wall Free Polar Structure Enhanced Photodegradation Activity in Nanoscale Ferroelectric Ba_xSr_{1-x}TiO₃.

. *Advanced Energy Materials* vol. 10, (38).Wiley.

Room-temperature multiferroic behavior in layer-structured Aurivillius phase ceramics.

. *Applied Physics Letters* vol. 117, (5).Aip Publishing.

Giant energy storage density in PVDF with internal stress engineered polar nanostructures.

. *Nano Energy* vol. 72, 104662-104662.Elsevier Bv.

High Thermoelectric Performance in SnTe Nanocomposites with All-Scale Hierarchical Structures.

. *Acs Applied Materials & Interfaces* vol. 12, (20) 23102-23109.American Chemical Society (Acs).

Boosting the Thermoelectric Performance of Calcium Cobaltite Composites through Structural Defect Engineering.

. *Acs Applied Materials & Interfaces* vol. 12, (19) 21623-21632.American Chemical Society (Acs).

The Contribution of Electrical Conductivity, Dielectric Permittivity and Domain Switching in Ferroelectric Hysteresis Loops.

. *Progress in Advanced Dielectrics* 1-20. World Scientific.

Ferroelectrics: Terahertz Probing Irreversible Phase Transitions Related to Polar Clusters in Bi_{0.5}Na_{0.5}TiO₃Based Ferroelectric (Adv. Electron. Mater. 4/2020).

. *Advanced Electronic Materials* vol. 6, (4).Wiley.

Pressure induced structure distortion in ferroelectrics with high Curie point and enhanced piezoelectric properties.

. *Journal of Alloys and Compounds* vol. 818, 152867-152867.Elsevier Bv.

Terahertz Probing Irreversible Phase Transitions Related to Polar Clusters in Bi_{0.5}Na_{0.5}TiO₃Based Ferroelectric.

. *Advanced Electronic Materials* vol. 6, (4).Wiley.

Effect of MnO₂ on the microstructure and electrical properties of 0.83Pb(Zr_{0.5}Ti_{0.5})O₃-0.11Pb(Zn_{1/3}Nb_{2/3})O₃-0.06Pb(Ni_{1/3}Nb_{2/3})O₃ piezoelectric ceramics.

. *Ceramics International* vol. 46, (1) 180-185.Elsevier Bv.

Cobalt-induced structural modulation in multiferroic Aurivillius-phase oxides.

. *Journal of Materials Chemistry C* vol. 8, (25) 8466-8483.Royal Society of Chemistry (Rsc).

Colossal thermoelectric enhancement in Cu_{2+x}Zn_{1-x}SnS₄ solid solution by local disordering of crystal lattice and multi-scale defect engineering.

. *Journal of Materials Chemistry A* vol. 8, (21) 10909-10916.Royal Society of Chemistry (Rsc).

Interactive humanmachine learning framework for modelling of ferroelectricdielectric composites.

. *Journal of Materials Chemistry C* vol. 8, (30) 10352-10361.Royal Society of Chemistry (Rsc).

Multiscale understanding of electric polarization in poly(vinylidene fluoride)-based ferroelectric polymers.
. *Journal of Materials Chemistry C* vol. 8, (46) 16436-16442. Royal Society of Chemistry (Rsc).

Structure and dielectric properties of double A-site doped bismuth sodium titanate relaxor ferroelectrics for high power energy storage applications.
. *Journal of Materials Chemistry A* vol. 8, (45) 23965-23973. Royal Society of Chemistry (Rsc).

2019

Microstructure and thermoelectric performance of La-doped (Ca_{0.9}Ag_{0.1})₃Co₄O₉/nanosized Ag composite ceramics.
. *International Journal of Ceramic Engineering & Science* vol. 2, (1) 7-16. Wiley.

Dielectric and ferroelectric properties of BTFCO thin films.
. *Journal of Electroceramics* vol. 43, (1-4) 92-95. Springer Science and Business Media LLC.

Ultrahigh -phase content poly(vinylidene fluoride) with relaxor-like ferroelectricity for high energy density capacitors.
. *Nature Communications* vol. 10, (1). Springer Science and Business Media LLC.

Isolation of a ferroelectric intermediate phase in antiferroelectric dense sodium niobate ceramics.
. *Acta Materialia* vol. 179, 255-261. Elsevier BV.

Relaxor behavior and photocatalytic properties of BaBi₂Nb₂O₉.
. *Journal of The American Ceramic Society* vol. 103, (1) 28-34. Wiley.

Twostep processing of thermoelectric (Ca_{0.9}Ag_{0.1})₃Co₄O₉/nanosized Ag composites with high ZT.
. *Journal of The European Ceramic Society* vol. 39, (10) 3088-3093. Elsevier BV.

Microstructure and broadband dielectric properties of Zn₂SiO₄ ceramics with nano-sized TiO₂ addition.
. *Ceramics International* vol. 45, (10) 13251-13256. Elsevier BV.

Symmetry-mode analysis for intuitive observation of structure-property relationships in the lead-free antiferroelectric (1-x)AgNbO₃xLiTaO₃.
. *Iucrj* vol. 6, (4) 740-750. International Union of Crystallography (Iucr).

On the origin of grain size effects in Ba(Ti_{0.96}Sn_{0.04})O₃ perovskite ceramics.
. *Journal of The European Ceramic Society* vol. 39, (6) 2064-2075. Elsevier BV.

Multiferroic properties of single phase Bi₃NbTiO₉ based textured ceramics.
. *Journal of Alloys and Compounds* vol. 788, 701-704. Elsevier BV.

Crystal structure and electrical properties of textured Ba₂Bi₄Ti₅O₁₈ ceramics.
. *Journal of The European Ceramic Society* vol. 39, (4) 1042-1049. Elsevier BV.

Spark plasma sintering of grain-oriented Sr₂Bi₄Ti₅O₁₈ aurivillius phase ceramics.
. *Journal of Alloys and Compounds* vol. 782, 6-9. Elsevier BV.

Orthoenstatite to forsterite phase transformation in magnesium germanate ceramics.
. *Ceramics International* vol. 45, (6) 7878-7884. Elsevier BV.

Remarkably enhanced polarisability and breakdown strength in PVDF-based interactive polymer blends for advanced energy storage applications.
. *Polymer* vol. 168, 246-254. Elsevier BV.

Point defect structure of La-doped SrTiO₃ ceramics with colossal permittivity.
. *Acta Materialia* vol. 164, 76-89. Elsevier BV.

Phase transitions in tantalum-modified silver niobate ceramics for high power energy storage.
. *Journal of Materials Chemistry A* vol. 7, (2) 834-842. Royal Society of Chemistry (Rsc).

Bi₂Fe₄O₉ thin films as novel visible-light-active photoanodes for solar water splitting.
. *Journal of Materials Chemistry A* vol. 7, (16) 9537-9541. Royal Society of Chemistry (Rsc).

Silver niobate based lead-free ceramics with high energy storage density.
. *Journal of Materials Chemistry A* vol. 7, (17) 10702-10711. Royal Society of Chemistry (Rsc).

2018

Electric-field-induced local distortion and large electrostrictive effects in lead-free NBT-based relaxor ferroelectrics.
. *Journal of The European Ceramic Society* vol. 38, (14) 4631-4639. Elsevier Bv.

Preparation and mechanical performance of graphene platelet reinforced titanium nanocomposites for high temperature applications.
. *Journal of Alloys and Compounds* vol. 765, 1111-1118. Elsevier Bv.

The origin of grain size effects in Ba(Ti_{0.96}Sn_{0.04})O₃ perovskite\ ceramics with superior electrical properties.

Microstructure characterization and thermoelectric properties of Sr_{0.9}La_{0.1}TiO₃ ceramics with nano-sized Ag as additive.
. *Journal of Alloys and Compounds* vol. 762, 80-89. Elsevier Bv.

Perovskite Sr_x(Bi_{1-x}Na_{0.97x}Li_{0.03})_{0.5}TiO₃ ceramics with polar nano regions for high power energy storage.
. *Nano Energy* vol. 50, 723-732. Elsevier Bv.

Enhanced piezoelectric properties and electrocaloric effect in novel leadfree (Bi_{0.5}K_{0.5})TiO₃La(Mg_{0.5}Ti_{0.5})O₃ ceramics.
. *Journal of The American Ceramic Society* vol. 101, (12) 5503-5513. Wiley.

Crystal Chemistry and Magnetic Properties of Gd-Substituted Aurivillius-Type Bi₅FeTi₃O₁₅ Ceramics.
. *The Journal of Physical Chemistry C* vol. 122, (27) 15733-15743. American Chemical Society (Acs).

SrFe₁₂O₁₉ based ceramics with ultra-low dielectric loss in the millimetre-wave band.
. *Applied Physics Letters* vol. 112, (14). Aip Publishing.

Phase evolution and electrical behaviour of samarium-substituted bismuth ferrite ceramics.
. *Journal of The European Ceramic Society* vol. 38, (4) 1374-1380. Elsevier Bv.

Enhanced dielectric tunability and energy storage properties of plate-like Ba_{0.6}Sr_{0.4}TiO₃/poly(vinylidene fluoride) composites through texture arrangement.
. *Composites Science and Technology* vol. 158, 112-120. Elsevier Bv.

Giant electrostrain accompanying structural evolution in lead-free NBT-based piezoceramics.
. *Journal of Materials Chemistry C* vol. 6, (4) 814-822. Royal Society of Chemistry (Rsc).

Bi_{3.25}La_{0.75}Ti_{2.5}Nb_{0.25}(Fe_{0.5}Co_{0.5})_{0.25}O₁₂, a single phase room temperature multiferroic.
. *Journal of Materials Chemistry C* vol. 6, (11) 2733-2740. Royal Society of Chemistry (Rsc).

Enhanced thermoelectric performance of Sn-doped Cu₃SbS₄.
. *Journal of Materials Chemistry C* vol. 6, (31) 8546-8552. Royal Society of Chemistry (Rsc).

2017

Phase composition and temperature dependence of electrocaloric effect in leadfree Bi_{0.5}Na_{0.5}TiO₃BaTiO₃(Sr_{0.7}Bi_{0.2})TiO₃ ceramics.
. *Journal of The European Ceramic Society* vol. 37, (15) 4732-4740. Elsevier Bv.

Ordered coalescence of nano-crystals in alkaline niobate ceramics with high remanent polarization.
. *Journal of Materiomics* vol. 3, (4) 267-272. Elsevier Bv.

Titanium Dioxide Engineered for Near-dispersionless High Terahertz Permittivity and Ultra-low-loss.
. *Scientific Reports* vol. 7, (1).Springer Science and Business Media Llc.

TypeI pseudofirstorder phase transition induced electrocaloric effect in leadfree $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_{30.06}\text{BaTiO}_3$ ceramics.
. *Applied Physics Letters* vol. 110, (18).Aip Publishing.

Microstructural comparison of effects of hafnium and titanium additions in spark-plasma-sintered Fe-based oxide-dispersion strengthened alloys.
. *Journal of Nuclear Materials* vol. 487, 433-442.Elsevier Bv.

Effect of Phase Transitions on Thermal Depoling in Lead-Free $0.94(\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3)0.06(\text{BaTiO}_3)$ Based Piezoelectrics.
. *The Journal of Physical Chemistry C* vol. 121, (10) 5709-5718.American Chemical Society (Acs).

Carriers concentration tailoring and phonon scattering from n-type zinc oxide (ZnO) nanoinclusion in p- and n-type bismuth telluride (Bi_2Te_3): Leading to ultra low thermal conductivity and excellent thermoelectric properties.
. *Journal of Alloys and Compounds* vol. 694, 864-868.Elsevier Bv.

Terbium-induced phase transitions and weak ferromagnetism in multiferroic bismuth ferrite ceramics.
. *Journal of Materials Chemistry C* vol. 5, (10) 2669-2685.

Topochemical transformation of two-dimensional single crystalline $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3\text{BaTiO}_3$ platelets from $\text{Na}_{0.5}\text{Bi}_{4.5}\text{Ti}_{40}\text{I}_{15}$ precursors and their piezoelectricity.
. *Journal of Materials Chemistry A* vol. 5, (30) 15780-15788.Royal Society of Chemistry (Rsc).

Phase transitions in bismuth-modified silver niobate ceramics for high power energy storage.
. *Journal of Materials Chemistry A* vol. 5, (33) 17525-17531.

2016

Theory-Guided Synthesis of an Eco-Friendly and Low-Cost Copper Based Sulfide Thermoelectric Material.
. *The Journal of Physical Chemistry C* vol. 120, (48) 27135-27140.American Chemical Society (Acs).

Lead free $\text{Bi}_3\text{TaTiO}_9$ ferroelectric ceramics with high Curie point.
. *Materials Letters* vol. 175, 79-81.Elsevier Bv.

Tuning the electrocaloric enhancement near the morphotropic phase boundary in lead-free ceramics.
. *Scientific Reports* vol. 6, (1).Springer Science and Business Media Llc.

Strain-Dependent Dielectric Behavior of Carbon Black Reinforced Natural Rubber.
. *Macromolecules* vol. 49, (6) 2339-2347.American Chemical Society (Acs).

Efficacy of lone-pair electrons to engender ultralow thermal conductivity.
. *Scripta Materialia* vol. 111, 49-53.

Growth of SiC platelets using contactless flash technique.
. *Journal of The Ceramic Society of Japan* vol. 124, (9) 845-847.Ceramic Society of Japan.

Room temperature magnetoelectric coupling in intrinsic multiferroic Aurivillius phase textured ceramics.
. *Dalton Transactions* vol. 45, (36) 14049-14052.

High energy density in silver niobate ceramics.
. *Journal of Materials Chemistry A* vol. 4, (44) 17279-17287.

2015

Crystallographic Structure and Ferroelectricity of $(\text{AxLa}_{1-x})_2\text{Ti}_2\text{O}_7$ (A = Sm and Eu) Solid Solutions with High T_c .
. *Journal of The American Ceramic Society* vol. 99, (2) 523-530.Wiley.

A High Curie Point Ferroelectric Ceramic $\text{Ca}_3(\text{VO}_4)_2$.

. *Ferroelectrics* vol. 487, (1) 94-100. Informa Uk Limited.

Processing and microstructure characterisation of oxide dispersion strengthened $\text{Fe}_{14}\text{Cr}_{0.4}\text{Ti}_{0.25}\text{Y}_{2}\text{O}_3$ ferritic steels fabricated by spark plasma sintering.

. *Journal of Nuclear Materials* vol. 464, 61-68. Elsevier Bv.

Role of synthesis method on microstructure and mechanical properties of graphene/carbon nanotube toughened Al_2O_3 nanocomposites.

. *Ceramics International* vol. 41, (8) 9813-9822.

Dielectric relaxation and electrical conductivity in $\text{Ca}_5\text{Nb}_4\text{TiO}_{17}$ ceramics.

. *Ceramics International* vol. 41, (8) 9923-9930.

Unfolding grain size effects in barium titanate ferroelectric ceramics.

. *Scientific Reports* vol. 5, (1). Springer Science and Business Media Llc.

Effect of Ca substitution sites on dielectric properties and relaxor behavior of Ca doped barium strontium titanate ceramics.

. *Journal of Materials Science Materials in Electronics* vol. 26, (4) 2486-2492.

Study on properties of tantalum-doped $\text{La}_2\text{Ti}_2\text{O}_7$ ferroelectric ceramics.

. *Journal of Advanced Dielectrics* vol. 05, (01) 1550005-1550005. World Scientific Pub Co Pte Ltd.

Reduced thermal conductivity by nanoscale intergrowths in perovskite like layered structure $\text{La}_2\text{Ti}_2\text{O}_7$.

. *Journal of Applied Physics* vol. 117, (7). Aip Publishing.

Microwave and terahertz dielectric properties of $\text{MgTiO}_3\text{CaTiO}_3$ ceramics.

. *Materials Letters* vol. 138, 225-227. Elsevier Bv.

Enhancement of electric field-induced strain in BaTiO_3 ceramics through grain size optimization.

. *Physica Status Solidi (a) Applications and Materials Science* vol. 212, (2) 433-438.

Ferroelectricity in DionJacobson ABiNb_2O_7 ($\text{A} = \text{Rb}, \text{Cs}$) compounds.

. *Journal of Materials Chemistry C* vol. 3, (1) 19-22. Royal Society of Chemistry (Rsc).

Effect of different templates on structure evolution and large strain response under a low electric field in -textured lead-free BNT-based piezoelectric ceramics.

. *Journal of The European Ceramic Society* vol. 35, (9) 2489-2499.

2014

Ferroelectric and dielectric properties of $\text{Nd}_{2x}\text{CexTi}_2\text{O}_7$ ceramics.

. *Advances in Applied Ceramics* vol. 114, (4) 191-197. Sage Publications.

Low Temperature Magnetic and Dielectric Anomalies in Rare Earth Substituted BiFeO_3 Ceramics.

. *Journal of The American Ceramic Society* vol. 97, (12) 3729-3732. Wiley.

Short range polar state transitions and deviation from Rayleigh-type behaviour in $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$ -based perovskites.

. *Applied Physics Letters* vol. 105, (10). Aip Publishing.

Three Layer Perovskite Like Structured $\text{Pr}_3\text{Ti}_2\text{TaO}_{11}$ Ferroelectrics with Super High Curie Point.

. *Journal of The American Ceramic Society* vol. 97, (11) 3624-3630. Wiley.

Spark Plasma Sintering of Alumina Composites with Graphene Platelets and Silicon Carbide Nanoparticles.

. *Advanced Engineering Materials* vol. 16, (9) 1111-1118. Wiley.

Lithium-Induced Phase Transitions in Lead-Free $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$ Based Ceramics.

. *The Journal of Physical Chemistry C* vol. 118, (16) 8564-8570. American Chemical Society (Acs).

Effect of dysprosium substitution on crystal structure and physical properties of multiferroic BiFeO₃ ceramics.
. *Journal of The European Ceramic Society* vol. 34, (3) 641-651.

Utilizing the phonon glass electron crystal concept to improve the thermoelectric properties of combined Yb-stuffed and Te-substituted CoSb₃.
. *Scripta Materialia* vol. 72-73, 63-66.

High field ZnO varistors prepared by spark plasma sintering.
. *Advances in Applied Ceramics* vol. 113, (2) 94-97. Sage Publications.

Large ZT enhancement in hot forged nanostructured p-type Bi_{0.5}Sb_{1.5}Te₃ bulk alloys.
. *J. Mater. Chem. A* vol. 2, (16) 5785-5790. Royal Society of Chemistry (Rsc).

Enhancement of thermoelectric properties by atomic-scale percolation in digenite Cu_xS.
. *J. Mater. Chem. A* vol. 2, (25) 9486-9489. Royal Society of Chemistry (Rsc).

2013

Reply to the Comment on The Effect of Barium Substitution on the Ferroelectric Properties of Sr₂Nb₂O₇ Ceramics [J. Am. Ceram. Soc., 96 [4] 11631170 (2013)].
. *Journal of The American Ceramic Society* vol. 97, (2) 662-663. Wiley.

Effect of grain size on domain structures, dielectric and thermal depoling of Nd-substituted bismuth titanate ceramics.
. *Applied Physics Letters* vol. 103, (18). Aip Publishing.

Effects of zinc substitution on the dielectric properties of Ca₅Nb₄TiO₁₇ microwave ceramics.
. *Journal of Advanced Dielectrics* vol. 03, (04) 1320003-1320003. World Scientific Pub Co Pte Ltd.

Effect of donor dopants cerium and tungsten on the dielectric and electrical properties of high Curie point ferroelectric strontium niobate.
. *Ceramics International* vol. 39, (7) 7669-7675.

MgAl₂O₄LaCr_{0.5}Mn_{0.5}O₃ composite ceramics for high temperature NTC thermistors.
. *Journal of Materials Science: Materials in Electronics* vol. 24, (11) 4452-4456. Springer Science and Business Media Llc.

Mechanical properties of graphene platelet-reinforced alumina ceramic composites.
. *Ceramics International* vol. 39, (6) 6215-6221. Elsevier Bv.

Dielectric relaxation, lattice dynamics and polarization mechanisms in Bi_{0.5}Na_{0.5}TiO₃-based lead-free ceramics.
. *Journal of Applied Physics* vol. 114, (1). Aip Publishing.

Piezoelectric and dielectric properties of Ce substituted La₂Ti₂O₇ ceramics.
. *Journal of The European Ceramic Society* vol. 33, (5) 1001-1008.

The effect of barium substitution on the ferroelectric properties of Sr₂Nb₂O₇ Ceramics.
. *Journal of The American Ceramic Society* vol. 96, (4) 1163-1170.

Ferroelectricity of Pr₂Ti₂O₇ ceramics with super high Curie point.
. *Advances in Applied Ceramics* vol. 112, (2) 69-74. Sage Publications.

Effect of Fe Substitution on Thermoelectric Properties of Fe_xIn_{4-x}Se₃ Compounds.
. *Journal of Electronic Materials* vol. 42, (4) 675-678. Springer Science and Business Media Llc.

Reverse boundary layer capacitor model in glass/ceramic composites for energy storage applications.
. *Journal of Applied Physics* vol. 113, (2). Aip Publishing.

Active ferroelectricity in nanostructured multiferroic BiFeO₃ bulk ceramics.
. *Journal of Materials Chemistry C* vol. 1, (36) 5628-5628. Royal Society of Chemistry (Rsc).

Contribution of piezoelectric effect, electrostriction and ferroelectric/ferroelastic switching to strain-electric field response of dielectrics.

. *Journal of Advanced Dielectrics* vol. 03, (01) 1350007-1350007. World Scientific Pub Co Pte Lt.

2012

Microwave dielectric properties of $\text{CaO-La}_2\text{O}_3\text{-Nb}_2\text{O}_5\text{-TiO}_2$ ceramics.

. *Journal of Materials Science: Materials in Electronics* vol. 24, (6) 1947-1954. Springer Science and Business Media Llc.

Microwave dielectric properties of $\text{La}_3\text{Ti}_2\text{TaO}_{11}$ ceramics with perovskite-like layered structure.

. *Journal of The European Ceramic Society* vol. 32, (16) 4015-4020. Elsevier Bv.

Toughening of zirconia/alumina composites by the addition of graphene platelets.

. *Journal of The European Ceramic Society* vol. 32, (16) 4185-4193. Elsevier Bv.

Analysis of femtosecond laser surface patterning on bulk single-crystalline diamond.

. *Journal of Experimental Nanoscience* vol. 7, (6) 662-672. Informa Uk Limited.

Kinetics of Densification and Grain Growth of Pure Tungsten During Spark Plasma Sintering.

. *Metallurgical and Materials Transactions B* vol. 43, (6) 1608-1614. Springer Science and Business Media Llc.

Reversibility in electric field-induced transitions and energy storage properties of bismuth-based perovskite ceramics.

. *Journal of Physics D: Applied Physics* vol. 45, (35) 355302-355302. IOP Publishing.

Phase stability and rapid consolidation of hydroxyapatite/zirconia nano-coprecipitates made using continuous hydrothermal flow synthesis.

. *Journal of Biomaterials Applications* vol. 27, (1) 79-90. Sage Publications.

Spherical instrumented indentation of porous nanocrystalline zirconia.

. *Journal of The European Ceramic Society* vol. 32, (1) 123-132. Elsevier Bv.

Ferroelectric ceramics with enhanced remnant polarization by ordered coalescence of nano-crystals.

. *Journal of Materials Chemistry* vol. 22, (44) 23547-23547. Royal Society of Chemistry (Rsc).

2011

Ferroelectric Domain Structures and Electrical Properties of Fine-Grained Lead-Free Sodium Potassium Niobate Ceramics.

. *J Am Ceram Soc* vol. 94, (10) 3391-3396.

Magneto-Electric Properties of Multiferroic $\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3\text{-NiFe}_2\text{O}_4$ Nanoceramic Composites.

. *J Am Ceram Soc* vol. 94, (8) 2311-2314.

High-strength nanograined and translucent hydroxyapatite monoliths via continuous hydrothermal synthesis and optimized spark plasma sintering.

. *Acta Biomaterialia* vol. 7, (2) 791-799. Elsevier Bv.

THE CONTRIBUTION OF ELECTRICAL CONDUCTIVITY, DIELECTRIC PERMITTIVITY AND DOMAIN SWITCHING IN FERROELECTRIC HYSTERESIS LOOPS.

. *Journal of Advanced Dielectrics* vol. 01, (01) 107-118. World Scientific Pub Co Pte Ltd.

2010

Effect of point defects on thermal depoling behavior of bismuth layer-structured ferroelectric ceramics.

. *Journal of Applied Physics* vol. 108, (9). Aip Publishing.

Microstructure and electrical properties of Aurivillius phase $(\text{CaBi}_2\text{Nb}_2\text{O}_9)_x(\text{BaBi}_2\text{Nb}_2\text{O}_9)_x$ solid solution.

. *Journal of Applied Physics* vol. 108, (1). Aip Publishing.

Highly conductive low nickel content nano-composite dense cermets from nano-powders made via a continuous hydrothermal synthesis route.

. *Solid State Ionics* vol. 181, (17-18) 827-834.Elsevier Bv.

The sintering and grain growth behaviour of ceramiccarbon nanotube nanocomposites.

. *Composites Science and Technology* vol. 70, (6) 947-952.Elsevier Bv.

High temperature lead-free relaxor ferroelectric: Intergrowth Aurivillius phase BaBi₂Nb₂O₉-Bi₄Ti₃O₁₂ ceramics.

. *J Appl Phys* vol. 107, (10).

Piezoelectric Strontium Niobate and Calcium Niobate Ceramics with SuperHigh Curie Points.

. *Journal of The American Ceramic Society* vol. 93, (5) 1409-1413.Wiley.

Structural and chemical stability of multiwall carbon nanotubes in sintered ceramic nanocomposite.

. *Advances in Applied Ceramics* vol. 109, (4) 240-247.Sage Publications.

Textured high Curie point piezoelectric ceramics prepared by spark plasma sintering.

. *Advances in Applied Ceramics* vol. 109, (3) 139-142.Sage Publications.

Low temperature consolidated lead-free ferroelectric niobate ceramics with improved electrical properties.

. *Journal of Materials Research* vol. 25, (2) 240-247.Springer Science and Business Media Llc.

Stability of Nanocrystalline Spark Plasma Sintered 3Y-TZP.

. *Materials* vol. 3, (2) 800-814.Mdpi Ag.

Electrically conductive aluminacarbon nanocomposites prepared by Spark Plasma Sintering.

. *Journal of The European Ceramic Society* vol. 30, (2) 153-157.Elsevier Bv.

2009

Piezoelectric and Ferroelectric Properties of Bismuth Tungstate Ceramics Fabricated by Spark Plasma Sintering.

. *Journal of The American Ceramic Society* vol. 92, (12) 3108-3110.Wiley.

Piezoelectric Ceramics with SuperHigh Curie Points.

. *Journal of The American Ceramic Society* vol. 92, (10) 2270-2275.Wiley.

The grain size effect on the properties of Aurivillius phase Bi_{3.15}Nd_{0.85}Ti₃O₁₂ ferroelectric ceramics.

. *Nanotechnology* vol. 20, (38).

Degradation resistance of 3Y-TZP ceramics sintered using spark plasma sintering.

. *IOP Conference Series: Materials Science and Engineering* vol. 5, 012014-012014.IOP Publishing.

The grain size effect on the properties of Aurivillius phase Bi_{3.15}Nd_{0.85}Ti₃O₁₂ ferroelectric ceramics.

. *Nanotechnology* vol. 20, (38).

The effect of Nd substitution on the electrical properties of Bi₃NbTiO₉ Aurivillius phase ceramics.

. *Journal of Applied Physics* vol. 106, (4).Aip Publishing.

Fabrication and properties of denseex situmagnesium diboride bulk material synthesized using spark plasma sintering.

. *Superconductor Science and Technology* vol. 22, (9) 095003-095003.IOP Publishing.

High-temperature ferroelectric phase transition observed in multiferroic Bi_{0.91}La_{0.05}Tb_{0.04}FeO₃.

. *Appl Phys Lett* vol. 95, (1).

2008

Effect of A site substitution on the properties of CaBi₂Nb₂O₉ ferroelectric ceramics.

. *J Am Ceram Soc* vol. 91, (9) 2928-2932.

Dimethylformamide: an effective dispersant for making ceramiccarbon nanotube composites.

. *Nanotechnology* vol. 19, (19) 195710-195710.IOP Publishing.

Luminescence of $\text{Sr}_{2}\text{SiO}_{4}\text{N}_{2}\text{Eu}^{2+}$ Phosphors Prepared by Spark Plasma Sintering.

. *Journal of The Electrochemical Society* vol. 155, (2) J58-J58.The Electrochemical Society.

2007

Dielectric, piezoelectric, and ferroelectric properties of grain-orientated $\text{Bi}_{3.25}\text{La}_{0.75}\text{Ti}_{3}\text{O}_{12}$ ceramics.

. *Journal of Applied Physics* vol. 102, (10).Aip Publishing.

Effect of annealing on dielectric behavior and electrical conduction of W^{6+} doped $\text{Bi}_{3}\text{TiNbO}_{9}$ ceramics.

. *Applied Physics Letters* vol. 90, (21).Aip Publishing.

2006

Lanthanum distribution and dielectric properties of $\text{Bi}_{3-x}\text{La}_x\text{TiNbO}_{9}$ bismuth layer-structured ceramics.

. *Scripta Materialia* vol. 55, (9) 791-794.Elsevier Bv.

Effect of texture on dielectric properties and thermal depoling of $\text{Bi}_{4}\text{Ti}_{3}\text{O}_{12}$ ferroelectric ceramics.

. *Journal of Applied Physics* vol. 100, (7).Aip Publishing.

Orientation dependence of dielectric and relaxor behaviour in Aurivillius phase $\text{BaBi}_{2}\text{Nb}_{2}\text{O}_{9}$ ceramics prepared by spark plasma sintering.

. *Journal of Materials Science: Materials in Electronics* vol. 17, (9) 657-661.Springer Science and Business Media Llc.

Doping effects on the electrical conductivity of bismuth layered $\text{Bi}_{3}\text{TiNbO}_{9}$ -based ceramics.

. *Journal of Applied Physics* vol. 100, (4).Aip Publishing.

Dielectric Relaxation of La^{3+} Modified $\text{Bi}_{3}\text{TiNbO}_{9}$ Aurivillius Phase Ceramics.

. *Journal of The American Ceramic Society* vol. 89, (9) 2939-2942.Wiley.

Structural and Electrical Properties of W^{6+} Doped $\text{Bi}_{3}\text{TiNbO}_{9}$ HighTemperature Piezoceramics.

. *Journal of The American Ceramic Society* vol. 89, (5) 1756-1760.Wiley.

B-site donor and acceptor doped Aurivillius phase $\text{Bi}_{3}\text{NbTiO}_{9}$ ceramics.

. *Journal of The European Ceramic Society* vol. 26, (13) 2785-2792.Elsevier Bv.

2005

Thermal depoling of high Curie point Aurivillius phase ferroelectric ceramics.

. *Applied Physics Letters* vol. 87, (8).Aip Publishing.

A LeadFree HighCuriePoint Ferroelectric Ceramic, $\text{CaBi}_{2}\text{Nb}_{2}\text{O}_{9}$.

. *Cheminform* vol. 36, (28).Wiley.

A LeadFree HighCuriePoint Ferroelectric Ceramic, $\text{CaBi}_{2}\text{Nb}_{2}\text{O}_{9}$.

. *Advanced Materials* vol. 17, (10) 1261-1265.Wiley.

Effective Grain Alignment in $\text{Bi}_{4}\text{Ti}_{3}\text{O}_{12}$ Ceramics by SuperplasticDeformationInduced Directional Dynamic Ripening.

. *Advanced Materials* vol. 17, (6) 676-680.Wiley.

Dielectric properties of single crystal diamond.

. *Semiconductor Science and Technology* vol. 20, (3) 296-298.IOP Publishing.

2004

The effect of (Li,Ce) and (K,Ce) doping in Aurivillius phase material $\text{CaBi}_{4}\text{Ti}_{4}\text{O}_{15}$.

. *Materials Research Bulletin* vol. 39, (9) 1237-1246.Elsevier Bv.

Grain Orientation Effects on the Properties of a Bismuth Layer Structured Ferroelectric (BLSF) Bi₃NbTiO₉ Solid Solution.

. *Journal of The American Ceramic Society* vol. 87, (4) 602-605. Wiley.

2003

Preparation and electrical properties of bismuth layer-structured ceramic Bi₃NbTiO₉ solid solution.

. *Materials Research Bulletin* vol. 38, (2) 241-248. Elsevier Bv.

2002

Influence of sintering temperature on the properties of high T_c bismuth layer structure ceramics.

. *Materials Science and Engineering: B* vol. 88, (1) 62-67. Elsevier Bv.

2001

Formation of columbite-type precursors in the mixture of MgOFe₂O₃Nb₂O₅ and the effects on fabrication of perovskites.

. *Materials Letters* vol. 51, (6) 490-499. Elsevier Bv.

Effects of A-Site (NaCe) Substitution with Na-Deficiency on Structures and Properties of CaBi₄Ti₄O₁₅-Based High-Curie-Temperature Ceramics.

. *Japanese Journal of Applied Physics* vol. 40, (11R) 6501-6501. IOP Publishing.

Effects of Cr₂O₃ addition on the piezoelectric properties and microstructure of PbZr_xTi_y(Mg_{1/3}Nb_{2/3})_{1-x-y}O₃ ceramics.

. *Journal of The European Ceramic Society* vol. 21, (6) 703-709. Elsevier Bv.

Effects of Processing Routes on Structures and Dielectric Properties of Lead Iron Niobate-Lead Magnesium Niobate Binary System.

. *Japanese Journal of Applied Physics* vol. 40, (4R) 2348-2348. IOP Publishing.

Effects of processing routes on structures and dielectric properties of lead iron niobate-lead magnesium niobate binary system.

. *Japanese Journal of Applied Physics Part I Regular Papers and Short Notes and Review Papers* vol. 40, (4 A) 2348-2356.

.
. *Journal of Materials Science Letters* vol. 20, (24) 2189-2191. Springer Science and Business Media Llc.

2000

A-Site (MCe) Substitution Effects on the Structures and Properties of CaBi₄Ti₄O₁₅ Ceramics.

. *Japanese Journal of Applied Physics* vol. 39, (11R) 6339-6339. IOP Publishing.

Study on Low Frequency Internal Friction for Pb(Zr,Ti)O₃ Ferroelectric Ceramics.

. *Physica Status Solidi (a)* vol. 179, (1) 275-283. Wiley.

Anomalous internal friction in lead metaniobate ceramics.

. *Journal of Applied Physics* vol. 87, (6) 3186-3188. Aip Publishing.

Low-frequency internal friction study on modified lead metaniobate ceramics.

. *Chinese Physics* vol. 9, (2) 149-152. IOP Publishing.