Rahul Vaish

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| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 230 | Anti-Ferroelectric Ceramics for High Energy Density Capacitors. <i>Materials</i> , 2015 , 8, 8009-8031 | 3.5 | 194 |
| 229 | Selection and performance assessment of Phase Change Materials for heating, ventilation and air-conditioning applications. <i>Energy Conversion and Management</i> , 2015 , 89, 260-269 | 10.6 | 82 |
| 228 | Efficient Solar Energy Conversion Using CaCu3Ti4O12 Photoanode for Photocatalysis and Photoelectrocatalysis. <i>Scientific Reports</i> , 2016 , 6, 18557 | 4.9 | 62 |
| 227 | Photocatalytic, hydrophobic and antimicrobial characteristics of ZnO nano needle embedded cement composites. <i>Construction and Building Materials</i> , 2018 , 158, 285-294 | 6.7 | 57 |
| 226 | Candle soot: Journey from a pollutant to a functional material. <i>Carbon</i> , 2019 , 144, 684-712 | 10.4 | 57 |
| 225 | Multicaloric effect in Pb(Mn1/3Nb2/3)O3-32PbTiO3 single crystals. <i>Acta Materialia</i> , 2015 , 89, 384-395 | 8.4 | 56 |
| 224 | Dielectric properties of Li2OBB2O3 glasses. <i>Journal of Applied Physics</i> , 2009 , 106, 064106 | 2.5 | 56 |
| 223 | Enhanced electrocaloric, pyroelectric and energy storage performance of BaCe Ti1D3 ceramics. Journal of the European Ceramic Society, 2017 , 37, 3927-3933 | 6 | 53 |
| 222 | Large pyroelectric figure of merits for Sr-modified Ba 0.85 Ca 0.15 Zr 0.1 Ti 0.9 O 3 ceramics. <i>Solid State Sciences</i> , 2016 , 52, 10-18 | 3.4 | 51 |
| 221 | Elastocaloric effect in ferroelectric ceramics. <i>Applied Physics Letters</i> , 2015 , 106, 172901 | 3.4 | 49 |
| 220 | Tuning of dielectric, pyroelectric and ferroelectric properties of 0.715Bi0.5Na0.5TiO3-0.065BaTiO3-0.22SrTiO3 ceramic by internal clamping. <i>AIP Advances</i> , 2015 , 5, 087 | 145 | 46 |
| 219 | A technique for giant mechanical energy harvesting using ferroelectric/antiferroelectric materials. Journal of Applied Physics, 2014 , 115, 084908 | 2.5 | 45 |
| 218 | An analysis of lead-free (Bi0.5Na0.5)0.915-(Bi0.5K0.5)0.05Ba0.02Sr0.015TiO3 ceramic for efficient refrigeration and thermal energy harvesting. <i>Journal of Applied Physics</i> , 2014 , 115, 013505 | 2.5 | 45 |
| 217 | Thermal Energy Harvesting Using Bulk Lead-Free Ferroelectric Ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2015 , 12, E49-E54 | 2 | 40 |
| 216 | Enhanced Thermal Energy Harvesting Using Li, K-Doped Bi0.5Na0.5TiO3 Lead-Free Ferroelectric Ceramics. <i>Energy Technology</i> , 2014 , 2, 205-209 | 3.5 | 40 |
| 215 | Multiple caloric effects in (Ba0.865Ca0.135Zr0.1089Ti0.8811Fe0.01)O3 ferroelectric ceramic. <i>Applied Physics Letters</i> , 2015 , 107, 042902 | 3.4 | 38 |
| 214 | Finite element analysis of vibration energy harvesting using lead-free piezoelectric materials: A comparative studyPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. <i>Journal of Asian Ceramic Societies</i> , 2014 , 2, 139-143 | 2.4 | 36 |

(2015-2015)

| 213 | A review and analysis of the elasto-caloric effect for solidstate refrigeration devices: Challenges and opportunities. <i>MRS Energy & Sustainability</i> , 2015 , 2, 1 | 2.2 | 36 |
|-----|---|--------------------|----|
| 212 | Impact of remnant surface polarization on photocatalytic and antibacterial performance of BaTiO3. Journal of the European Ceramic Society, 2019 , 39, 2915-2922 | 6 | 35 |
| 211 | Piezoelectric material selection for transducers under fuzzy environment. <i>Journal of Advanced Ceramics</i> , 2013 , 2, 141-148 | 10.7 | 33 |
| 210 | Elastocaloric and barocaloric effects in polyvinylidene di-fluoride-based polymers. <i>Applied Physics Letters</i> , 2016 , 108, 072903 | 3.4 | 33 |
| 209 | Photocatalytic, piezocatalytic, and piezo-photocatalytic effects in ferroelectric (Ba0.875Ca0.125)(Ti0.95Sn0.05)O3 ceramics. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 5807-5 | 8 ² 187 | 32 |
| 208 | Electrocaloric Behavior and Temperature-Dependent Scaling of Dynamic Hysteresis of Ba0.85Ca0.15Ti0.9Zr0.1O3 Ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2015 , 12, 899. | - 9 07 | 32 |
| 207 | Electrical transport characteristics of ZnOBi2O3B2O3 glasses. <i>Ionics</i> , 2013 , 19, 99-104 | 2.7 | 31 |
| 206 | A study on the structural and photocatalytic degradation of ciprofloxacine using (70B 2 O 3 🛭 9Bi 2 O 3 🖺 Dy 2 O 3) 🖟 (BaOIIiO 2) glass ceramics. <i>Journal of Non-Crystalline Solids</i> , 2015 , 428, 197-203 | 3.9 | 30 |
| 205 | Janus nanostructures for heterogeneous photocatalysis. <i>Applied Physics Reviews</i> , 2018 , 5, 041111 | 17.3 | 29 |
| 204 | Analysis of High-Field Energy Harvesting using Ferroelectric Materials. <i>Energy Technology</i> , 2014 , 2, 480- | 435 | 28 |
| 203 | Enhanced pyroelectric figure of merits of porous BaSn0.05Ti0.95O3 ceramics. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 3943-3950 | 6 | 27 |
| 202 | Rapid bacterial disinfection using low frequency piezocatalysis effect. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 77, 355-364 | 6.3 | 27 |
| 201 | A Prime Lead-Free Ferroelectric Ceramic for Thermal Energy Harvesting: 0.88Bi0.5Na0.5TiO302SrTiO3-0.1Bi0.5Li0.5TiO3. <i>Ferroelectrics</i> , 2015 , 474, 1-7 | 0.6 | 26 |
| 200 | Exploring the piezocatalytic dye degradation capability of lithium niobate. <i>Advanced Powder Technology</i> , 2020 , 31, 1771-1775 | 4.6 | 26 |
| 199 | Dye degradation and bacterial disinfection using multicatalytic BaZr0.02Ti0.98O3 ceramics. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 4774-4784 | 3.8 | 25 |
| 198 | TiO2 microcrystallized glass plate mediated photocatalytic degradation of estrogenic pollutant in water. <i>Journal of Non-Crystalline Solids</i> , 2015 , 408, 13-17 | 3.9 | 23 |
| 197 | Piezoelectric and Pyroelectric Materials Selection. <i>International Journal of Applied Ceramic Technology</i> , 2013 , 10, 682-689 | 2 | 23 |
| 196 | Improved Electrical Energy Storage Density in Vanadium-Doped BaTiO3 Bulk Ceramics by Addition of 3BaOBTiO2B2O3 Glass. <i>Energy Technology</i> , 2015 , 3, 70-76 | 3.5 | 23 |

| 195 | Selection of Lead-Free Piezoelectric Ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2014 , 11, 883-893 | 2 | 23 |
|-----|--|-------------|----|
| 194 | Effect of Ce on piezo/photocatalytic effects of Ba0.9Ca0.1CexTi1-xO3 ceramics for dye/pharmaceutical waste water treatment. <i>Materials Research Bulletin</i> , 2020 , 122, 110647 | 5.1 | 23 |
| 193 | Multicatalytic behavior of Ba0.85Ca0.15Ti0.9 Zr0.1O3 ceramics for pharmaceutical/dye/bacterial treatments. <i>Journal of Applied Physics</i> , 2020 , 127, 135103 | 2.5 | 22 |
| 192 | Lead-free piezoelectric materials performance in structural active vibration control. <i>Journal of Intelligent Material Systems and Structures</i> , 2014 , 25, 1596-1604 | 2.3 | 22 |
| 191 | Enhanced thermal energy conversion and dynamic hysteresis behavior of Sr-added Ba0.85Ca0.15Ti0.9Zr0.1O3 ferroelectric ceramics. <i>Journal of Materiomics</i> , 2016 , 2, 75-86 | 6.7 | 21 |
| 190 | Multicaloric effect in Pb(Mn1/3Nb2/3)O3-32PbTiO3 single crystals: Modes of measurement. <i>Acta Materialia</i> , 2015 , 97, 17-28 | 8.4 | 20 |
| 189 | Adsorption of dyes onto candle soot: Equilibrium, kinetics and thermodynamics. <i>European Physical Journal Plus</i> , 2018 , 133, 1 | 3.1 | 20 |
| 188 | Experimental Study on Waste Heat Energy Harvesting using Lead Zirconate Titanate (PZT-5H) Pyroelectric Ceramics. <i>Energy Technology</i> , 2015 , 3, 768-773 | 3.5 | 19 |
| 187 | TiO@C core@shell nanocomposites: A single precursor synthesis of photocatalyst for efficient solar water treatment. <i>Journal of Hazardous Materials</i> , 2020 , 381, 120883 | 12.8 | 19 |
| 186 | Photocatalytic study on SrBi2B2O7 (SrO-Bi2O3-B2O3) transparent glass ceramics. <i>Materials Research Bulletin</i> , 2018 , 99, 453-459 | 5.1 | 19 |
| 185 | Polyaniline/CaCu3Ti4O12 nanofiber composite with a synergistic effect on visible light photocatalysis. <i>RSC Advances</i> , 2015 , 5, 87241-87250 | 3.7 | 18 |
| 184 | Thermal energy conversion and temperature-dependent dynamic hysteresis analysis for Ba0.85Ca0.15Ti0.9\(\text{MFexZr0.1O3}\) ceramicsPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society. View all notes. <i>Journal of Asian Ceramic Societies</i> , 2016 , 4, 102 | 2.4 -111 | 18 |
| 183 | Selection of optimal sintering temperature of K0.5Na0.5NbO3 ceramics for electromechanical applicationsPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society. View all notes. <i>Journal of Asian Ceramic Societies</i> , 2014 , 2, 5-10 | 2.4 | 18 |
| 182 | The glass transition and crystallization kinetic studies on BaNaB9O15glasses. <i>Journal Physics D:</i> Applied Physics, 2009 , 42, 015409 | 3 | 18 |
| 181 | Pyro-paraelectric and flexocaloric effects in barium strontium titanate: A first principles approach. <i>Applied Physics Letters</i> , 2016 , 108, 162901 | 3.4 | 18 |
| 180 | Candle soot coated polyurethane foam as an adsorbent for removal of organic pollutants from water. <i>European Physical Journal Plus</i> , 2019 , 134, 1 | 3.1 | 17 |
| 179 | Multifunctional diesel exhaust emission soot coated sponge for water treatment. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 8148-8156 | 5.1 | 17 |
| 178 | Diesel soot coated non-woven fabric for oil-water separation and adsorption applications. <i>Scientific Reports</i> , 2019 , 9, 8503 | 4.9 | 17 |

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| 177 | Mechanical confinement for tuning ferroelectric response in PMN-PT single crystal. <i>Journal of Applied Physics</i> , 2015 , 117, 084102 | 2.5 | 17 |
|-----|--|------------------|----|
| 176 | Poling direction driven large enhancement in piezoelectric performance. <i>Scripta Materialia</i> , 2018 , 151, 76-81 | 5.6 | 17 |
| 175 | Highly efficient visible light mediated azo dye degradation through barium titanate decorated reduced graphene oxide sheets. <i>Electronic Materials Letters</i> , 2016 , 12, 281-289 | 2.9 | 17 |
| 174 | Near-zero thermal expansion transparent lithium aluminosilicate glass-ceramic by microwave hybrid heat treatment. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 140-150 | 3.8 | 16 |
| 173 | Enhanced electrocaloric effect in Ba0.85Ca0.15Zr0.1Ti0.9\squareSnxO3 ferroelectric ceramics. <i>Phase Transitions</i> , 2016 , 89, 1062-1073 | 1.3 | 16 |
| 172 | Enhanced energy storage performance of glass added 0.715Bi0.5Na0.5TiO3-0.065BaTiO3-0.22SrTiO3 ferroelectric ceramicsPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society. View all notes. | 2.4 | 16 |
| 171 | Electrical Energy Generation from Hot/Cold Air Using Pyroelectric Ceramics. <i>Integrated Ferroelectrics</i> , 2015 , 167, 90-97 | 0.8 | 16 |
| 170 | Elastocaloric Effect in Carbon Nanotubes and Graphene. <i>Nano Letters</i> , 2016 , 16, 7008-7012 | 11.5 | 16 |
| 169 | Effect of Sr2TiMnO6 fillers on mechanical, dielectric and thermal behaviour of PMMA polymer. Journal of Advanced Dielectrics, 2015 , 05, 1550018 | 1.3 | 15 |
| 168 | Enhanced electrocaloric effect in Fe-doped (Ba0.85Ca0.15Zr0.1Ti0.9)O3 ferroelectric ceramics. <i>Applied Materials Today</i> , 2015 , 1, 37-44 | 6.6 | 15 |
| 167 | Development of Figures of Merit for Pyroelectric Energy-Harvesting Devices. <i>Energy Technology</i> , 2016 , 4, 843-850 | 3.5 | 15 |
| 166 | Flexible Ag@LiNbO/PVDF Composite Film for Piezocatalytic Dye/Pharmaceutical Degradation and Bacterial Disinfection. <i>ACS Applied Materials & Materials</i> | 9.5 | 15 |
| 165 | First principles insights into improved catalytic performance of BaTiO3- graphene nanocomposites in conjugation with experimental investigations. <i>Materials Science in Semiconductor Processing</i> , 2016 , 51, 33-41 | 4.3 | 15 |
| 164 | Pyroelectric performance of porous Ba0.85Sr0.15TiO3 ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2018 , 15, 140-147 | 2 | 15 |
| 163 | Portable triboelectric based wind energy harvester for low power applications. <i>European Physical Journal Plus</i> , 2017 , 132, 1 | 3.1 | 14 |
| 162 | Transparent ZnO crystallized glass ceramics for photocatalytic and antibacterial applications. Journal of Applied Physics, 2019 , 125, 175102 | 2.5 | 14 |
| 161 | Visible Light-Induced Photocatalytic and Antibacterial Activity of Li-Doped Bi0.5Na0.45K0.5TiO3 B aTiO3 Ferroelectric Ceramics. <i>Journal of Electronic Materials</i> , 2015 , 44, 4334-4342 | 2 ^{1.9} | 14 |
| 160 | Enhanced dye adsorption and rapid photocatalysis of candle soot coated BaTiO3 ceramics. <i>Materials Chemistry and Physics</i> , 2020 , 252, 123311 | 4.4 | 14 |

| 159 | Visible light induced water detoxification through Portland cement composites reinforced with photocatalytic filler: A leap away from TiO2. <i>Construction and Building Materials</i> , 2016 , 120, 364-372 | 6.7 | 14 |
|-----|---|---------------|----|
| 158 | Effect of sintering temperature and dwell time on electrocaloric properties of Ba0.85Ca0.075Sr0.075Ti0.90Zr0.10O3 ceramics. <i>Phase Transitions</i> , 2017 , 90, 465-474 | 1.3 | 14 |
| 157 | Structural, thermal and dielectric properties and thermal degradation kinetics of nylon 11/CaCu3Ti4O12 (CCTO) nanocomposites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 141, 1123 | -14135 | 14 |
| 156 | Emerging trends in glass-ceramic photocatalysts. <i>Chemical Engineering Journal</i> , 2021 , 407, 126971 | 14.7 | 14 |
| 155 | Candle Soot-Driven Performance Enhancement in Pyroelectric Energy Conversion. <i>Journal of Electronic Materials</i> , 2018 , 47, 4721-4730 | 1.9 | 14 |
| 154 | Selection of Ferroelectric Ceramics for Transducers and Electrical Energy Storage Devices. International Journal of Applied Ceramic Technology, 2015, 12, E1-E7 | 2 | 13 |
| 153 | Pyroelectric performance of BaTi1-xSnxO3 ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2018 , 15, 546-553 | 2 | 13 |
| 152 | Enhanced electrocatalytic performance of perovskite supported iron oxide nanoparticles for oxygen reduction reaction. <i>RSC Advances</i> , 2016 , 6, 94826-94832 | 3.7 | 13 |
| 151 | Separation of dyes/oils from water by diesel exhaust emission soot coated polyurethane foam: a kinetic and equilibrium isotherm study. <i>Engineering Research Express</i> , 2019 , 1, 015010 | 0.9 | 13 |
| 150 | Cyclic Electrical Energy Harvesting Using Mechanical Confinement in Ferroelectric Ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2015 , 12, 765-770 | 2 | 13 |
| 149 | Enhanced Electrocaloric Effect in Pre-stressed Ferroelectric Materials. <i>Energy Technology</i> , 2015 , 3, 177- | 1 <u>8</u> .6 | 13 |
| 148 | Pyroelectric signals in (Ba,Ca)TiO3-xBa(Sn,Ti)O3 ceramics: A viable alternative for lead-based ceramics. <i>Scripta Materialia</i> , 2018 , 146, 146-149 | 5.6 | 13 |
| 147 | Enhanced Visible Light Photocatalytic Activity of Curcumin-Sensitized Perovskite Bi0.5Na0.5TiO3 for Rhodamine 6G Degradation. <i>International Journal of Applied Ceramic Technology</i> , 2016 , 13, 333-339 | 2 | 13 |
| 146 | Tunable surface adsorption and wettability of candle soot coated on ferroelectric ceramics. <i>Journal of Advanced Research</i> , 2019 , 16, 35-42 | 13 | 13 |
| 145 | Bi0.5Na0.5TiO3-BiOCl composite photocatalyst for efficient visible light degradation of dissolved organic impurities. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 102842 | 6.8 | 12 |
| 144 | Selection of Indial energy resources: a fuzzy decision making approach. <i>Energy Systems</i> , 2015 , 6, 439-45 | 3 1.7 | 12 |
| 143 | Surface-selective bactericidal effect of poled ferroelectric materials. <i>Journal of Applied Physics</i> , 2018 , 124, 014901 | 2.5 | 12 |
| 142 | Giant energy harvesting potential in (100)-oriented 0.68PbMg1/3Nb2/3O3D.32PbTiO3 with Pb(Zr0.3Ti0.7)O3/PbOx buffer layer and (001)-oriented 0.67PbMg1/3Nb2/3O3D.33PbTiO3 thin films. <i>Journal of Advanced Dielectrics</i> , 2014 , 04, 1450029 | 1.3 | 12 |

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| 141 | Energy harvesting using piezoelectric cementitious composites for water cleaning applications. <i>Materials Research Bulletin</i> , 2021 , 137, 111205 | 5.1 | 12 | |
|-----|---|-----------------|----|--|
| 140 | Caloric Effects in Bulk Lead-Free Ferroelectric Ceramics for Solid-State Refrigeration. <i>Energy Technology</i> , 2016 , 4, 244-248 | 3.5 | 12 | |
| 139 | Antibacterial and photocatalytic active transparent TiO2 crystallized CaOBaOB2O3Al2O3IIiO2InO glass nanocomposites. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 3378-3390 | 3.8 | 12 | |
| 138 | Piezo/pyro/photo-catalysis activities in Ba 0.85 Ca 0.15 (Ti 0.9 Zr 0.1) 1-x Fe x O 3 ceramics. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 45-56 | 3.8 | 12 | |
| 137 | Thermomechanical Energy Conversion Potential of Lead-Free 0.50Ba(Zr0.2Ti0.8)O3D.50(Ba0.7Ca0.3)TiO3 Bulk Ceramics. <i>Energy Technology</i> , 2018 , 6, 872-882 | 3.5 | 12 | |
| 136 | A study on epoxy-based 1B piezoelectric composites using finite element method. <i>Polymer Composites</i> , 2016 , 37, 1895-1905 | 3 | 11 | |
| 135 | Crystallisation studies on site saturated lithium aluminosilicate (LAS) glass. <i>Thermochimica Acta</i> , 2019 , 679, 178311 | 2.9 | 10 | |
| 134 | Pyroelectric energy conversion using Ba0.85Sr0.15Zr0.1Ti0.9O3 ceramics and its cement-based composites. <i>Journal of Intelligent Material Systems and Structures</i> , 2019 , 30, 869-877 | 2.3 | 10 | |
| 133 | Performance of K0.5 Na0.5 NbO3 (KNN)-based Lead-free Piezoelectric Materials in Active Vibration Control. <i>International Journal of Applied Ceramic Technology</i> , 2015 , 12, E64-E72 | 2 | 10 | |
| 132 | Flexoelectric effect in functionally graded materials: A numerical study. <i>European Physical Journal Plus</i> , 2018 , 133, 1 | 3.1 | 10 | |
| 131 | Hierarchical growth of BiOCl on SrO-Bi2O3-B2O3 glass-ceramics for self-cleaning applications. Journal of the American Ceramic Society, 2018 , 101, 2901-2913 | 3.8 | 10 | |
| 130 | Controlled crystallization of photocatalytic active Bismuth oxyfluoride/Bismuth fluoride on SrO-Bi2O3-B2O3transparent glass ceramic. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 3635-36 | 42 ⁶ | 10 | |
| 129 | Finite Element Study on Performance of Piezoelectric Bimorph Cantilevers Using Porous/Ceramic OB Polymer Composites. <i>Journal of Electronic Materials</i> , 2018 , 47, 233-241 | 1.9 | 10 | |
| 128 | Cement-based diesel exhaust emission soot coatings for the removal of organic pollutants from water. <i>Construction and Building Materials</i> , 2020 , 234, 117377 | 6.7 | 10 | |
| 127 | Elastocaloric and Piezocaloric Effects in Lead Zirconate Titanate Ceramics. <i>Energy Technology</i> , 2016 , 4, 647-652 | 3.5 | 10 | |
| 126 | Pyroelectric and impedance studies of the 0.5Ba(Zr0.2Ti0.8)O3-0.5(Ba0.7Sr0.3)TiO3 ceramics. <i>Ceramics International</i> , 2018 , 44, 21976-21981 | 5.1 | 10 | |
| 125 | Harvesting thermal energy (via radiation) using pyroelectric materials (PZT-5H): An experimental study. <i>Ferroelectrics, Letters Section</i> , 2017 , 44, 35-41 | 0.5 | 9 | |
| 124 | Active vibration control of smart structure using poling tuned piezoelectric material. <i>Journal of Intelligent Material Systems and Structures</i> , 2020 , 31, 1298-1313 | 2.3 | 9 | |

| 123 | Functional Cementitious Composites for Pyroelectric Applications. <i>Journal of Electronic Materials</i> , 2018 , 47, 2378-2385 | 1.9 | 9 |
|-----|---|-----|---|
| 122 | Large room temperature electrocaloric strength in bulk ferroelectric ceramics: an optimum solution. <i>Phase Transitions</i> , 2016 , 89, 1019-1028 | 1.3 | 9 |
| 121 | Engineered microstructure for tailoring the pyroelectric performance of Ba0.85Sr0.15Zr0.1Ti0.9O3 ceramics by 3BaO-3TiO2-B2O3 glass addition. <i>Applied Physics Letters</i> , 2017 , 110, 232901 | 3.4 | 9 |
| 120 | Enhanced Electrical Energy Storage Density in Mechanical Confined Antiferroelectric Ceramic. <i>Ferroelectrics</i> , 2015 , 486, 114-125 | 0.6 | 9 |
| 119 | A Comparative Study on Decision Making Methods with Interval Data. <i>Journal of Computational Engineering</i> , 2014 , 2014, 1-10 | | 9 |
| 118 | Fluid Selection of Organic Rankine Cycle Using Decision Making Approach. <i>Journal of Computational Engineering</i> , 2013 , 2013, 1-10 | | 9 |
| 117 | Effect of sintering temperature and dwell time dependent dynamic hysteresis scaling behavior of (Ba0.85Ca0.075Sr0.075)(Ti0.90Zr0.10)O3 ceramics. <i>Ferroelectrics</i> , 2016 , 505, 52-66 | 0.6 | 9 |
| 116 | Effect of Peierls stress and strain-hardening parameters on EMR emission in metals and alloys during progressive plastic deformation. <i>International Journal of Materials Research</i> , 2016 , 107, 503-517 | 0.5 | 9 |
| 115 | Influence of LiNbO3 crystallization on the optical, dielectric and nanoindentation properties of the 30SiO2B5Li2OB5Nb2O5 glass. <i>Journal of Applied Physics</i> , 2019 , 126, 214101 | 2.5 | 9 |
| 114 | Vibration induced refrigeration and energy harvesting using piezoelectric materials: a finite element study <i>RSC Advances</i> , 2019 , 9, 3918-3926 | 3.7 | 8 |
| 113 | Large Gain in Pyroelectric Energy Conversion through a Candle Soot Coating. <i>Energy Technology</i> , 2018 , 6, 950-955 | 3.5 | 8 |
| 112 | Electrocaloric behavior and temperature dependent scaling of dynamic hysteresis of BaxSr1-xTiO3 ($x = 0.7, 0.8$ and 0.9) bulk ceramics. <i>Journal of the Australian Ceramic Society</i> , 2018 , 54, 439-450 | 1.5 | 8 |
| 111 | Photocatalytic Active Bismuth Fluoride/Oxyfluoride Surface Crystallized 2Bi2O3-B2O3 Glassteramics. <i>Journal of Electronic Materials</i> , 2018 , 47, 3490-3496 | 1.9 | 8 |
| 110 | Ferroelectric electrocatalysts: a new class of materials for oxygen evolution reaction with synergistic effect of ferroelectric polarization. <i>Journal of Materials Science</i> , 2018 , 53, 1414-1423 | 4.3 | 8 |
| 109 | A numerical study on flexoelectric bistable energy harvester. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1 | 2.6 | 8 |
| 108 | Reaping the benefits of ferroelectricity in selectively precipitated lithium niobate microcrystals in silica matrix for photocatalysis. <i>Applied Physics Letters</i> , 2016 , 109, 223901 | 3.4 | 8 |
| 107 | Transparent CaF2 surface crystallized CaOØB2O3 glass possessing efficient photocatalytic and antibacterial properties. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 5127-5137 | 3.8 | 8 |
| 106 | Melt quenched V2O5/BiVO4 composite: A novel and promising adsorbent and photocatalyst. <i>Materials Chemistry and Physics</i> , 2020 , 240, 122238 | 4.4 | 8 |

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| 105 | Utilizing the localized surface piezoelectricity of centrosymmetric Sr1-xFexTiO3 (x0.2) ceramics for piezocatalytic dye degradation. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 326-334 | 6 | 8 | |
|-----|---|-----|---|--|
| 104 | Effect of poling on piezocatalytic removal of muti-pollutants using BaTiO3. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 1661-1668 | 3.8 | 8 | |
| 103 | Dielectric properties of nylon 11/CaCu3Ti4O12 (CCTO) nanocomposite films with high permittivity. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019 , 26, 568-575 | 2.3 | 7 | |
| 102 | Effect of Directional Mechanical Confinement on the Electrical Energy Storage Density in 68Pb(Mn1/3Nb2/3)O3-32PbTiO3 Single Crystals. <i>Ferroelectrics</i> , 2015 , 478, 40-53 | 0.6 | 7 | |
| 101 | Solar light induced antibacterial performance of TiO2 crystallized glass ceramics. <i>International Journal of Applied Glass Science</i> , 2018 , 9, 480-486 | 1.8 | 7 | |
| 100 | A numerical study on anomalous behavior of piezoelectric response in functionally graded materials. <i>Journal of Materials Science</i> , 2018 , 53, 2413-2423 | 4.3 | 7 | |
| 99 | Solar Energy Harvesting Using Pyroelectric Effect Associated with Piezoelectric Buzzer. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1900440 | 1.6 | 7 | |
| 98 | Photocatalytic self-cleaning transparent 2Bi2O3-B2O3 glass ceramics. <i>Journal of Applied Physics</i> , 2017 , 122, 094901 | 2.5 | 7 | |
| 97 | Energy and Exergy Analyses of a Pyroelectric-Based Solar Energy Harvesting System. <i>Energy Technology</i> , 2015 , 3, 1271-1278 | 3.5 | 7 | |
| 96 | Application Oriented Selection of Optimal Sintering Temperature from User Perspective: A Study on K0.5Na0.5NbO3 Ceramics. <i>Ferroelectrics</i> , 2015 , 481, 64-76 | 0.6 | 7 | |
| 95 | Effect of Stress on Energy Conversion and Storage Characteristics of (1-x-y)PIN-xPMN-yPT Single Crystals. <i>Ferroelectrics, Letters Section</i> , 2015 , 42, 107-114 | 0.5 | 7 | |
| 94 | Dielectric behavior of sodium borate glasses. <i>Ionics</i> , 2011 , 17, 727-731 | 2.7 | 7 | |
| 93 | Transparent ferroelectric glassEeramics for wastewater treatment by piezocatalysis. <i>Communications Materials</i> , 2020 , 1, | 6 | 7 | |
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