

Rahul Vaish

List of Publications by Year in Descending Order

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

230
papers

3,105
citations

27
h-index

40
g-index

244
ext. papers

3,970
ext. citations

3.3
avg, IF

6.32
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 230 | A review of piezoelectric energy harvesting tiles: Available designs and future perspective. <i>Energy Conversion and Management</i> , 2022 , 254, 115272 | 10.6 | 3 |
| 229 | Crystallization and sintering studies on an anomalous Li ₂ O-Al ₂ O ₃ -SiO ₂ glass for making tunable thermal expansion ceramic. <i>International Journal of Applied Glass Science</i> , 2022 , 13, 41 | 1.8 | 0 |
| 228 | Effect of poling on piezocatalytic and electrochemical properties of Pb(Zr _{0.52} Ti _{0.48})O ₃ ceramics. <i>Surfaces and Interfaces</i> , 2022 , 30, 101827 | 4.1 | 2 |
| 227 | An optimization study on $\text{Ba}_{0.85}\text{Ca}_{0.15}\text{Zr}_{0.1}\text{Ti}_{0.9}\text{O}_3$ -based piezoelectric energy-harvester using finite element method. <i>Journal of the Australian Ceramic Society</i> , 2022 , 58, 309-319 | 1.5 | 0 |
| 226 | Ferroelectric ceramics and glass ceramics for photocatalysis 2022 , 297-322 | | |
| 225 | Improved piezoelectric performance of 0.965 (K _{0.48} Na _{0.52})(Nb _{0.96} Sb _{0.04})O ₃ □ 0.035Bi _{0.5} Na _{0.5} Zr _{0.15} Hf _{0.75} O ₃ piezocomposites using inherently auxetic polyethylene matrix. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1 | 2.6 | 0 |
| 224 | Lead lanthanum zirconate titanate (PLZT)-based fiber composites for enhanced photostrictive actuation: a numerical study. <i>European Physical Journal Plus</i> , 2021 , 136, 1 | 3.1 | 0 |
| 223 | Hydrophobization of Melamine Sponges Using Radiation-Synthesized Tetrafluoroethylene Telomers. <i>High Energy Chemistry</i> , 2021 , 55, 488-494 | 0.9 | 0 |
| 222 | Surface crystallization of BiOCl on 2Bi ₂ O ₃ B ₂ O ₃ glasses for photocatalytic applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 10520-10531 | 2.1 | 1 |
| 221 | Performance indexes for flexoelectricity in transverse and longitudinal modes. <i>Journal of Applied Physics</i> , 2021 , 129, 145105 | 2.5 | 0 |
| 220 | Promising multicatalytic and adsorption capabilities in V ₂ O ₅ /BiVO ₄ composite pellets for water-cleaning application. <i>Surfaces and Interfaces</i> , 2021 , 23, 100924 | 4.1 | 6 |
| 219 | Energy harvesting using piezoelectric cementitious composites for water cleaning applications. <i>Materials Research Bulletin</i> , 2021 , 137, 111205 | 5.1 | 12 |
| 218 | Antibacterial ferroelectric materials: Advancements and future directions. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 97, 95-110 | 6.3 | 7 |
| 217 | Flexible Ag@LiNbO/PVDF Composite Film for Piezocatalytic Dye/Pharmaceutical Degradation and Bacterial Disinfection. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22914-22925 | 9.5 | 15 |
| 216 | A finite element computational framework for enhanced photostrictive performance in O ₃ composites. <i>International Journal of Mechanics and Materials in Design</i> , 2021 , 17, 609-632 | 2.5 | 0 |
| 215 | Effect of sintering temperature on sensing, actuation and energy harvesting performance of (Ba _{0.85} Ca _{0.15})(Ti _{0.9} Zr _{0.1})O ₃ ceramics: A numerical and simulation based study. <i>Engineering Research Express</i> , 2021 , 3, 025018 | 0.9 | 0 |
| 214 | Diesel Soot as a Supercapacitor Electrode Material. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 050551 | 3.9 | 1 |

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|-----|---|------|----|
| 213 | Efficient dye removal using adsorption and photocatalytic capabilities of titania-supported vanadia. <i>Materials Technology</i> , 2021 , 36, 504-512 | 2.1 | |
| 212 | Design of spatially varying electrical poling for enhanced piezoelectricity in $Pb(Mg_{1/3}Nb_{2/3})O_3 \cdot 0.35PbTiO_3$. <i>International Journal of Mechanics and Materials in Design</i> , 2021 , 17, 99-118 | 2.5 | 4 |
| 211 | Utilizing the localized surface piezoelectricity of centrosymmetric $Sr_{1-x}Fe_xTiO_3$ ($x=0.2$) ceramics for piezocatalytic dye degradation. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 326-334 | 6 | 8 |
| 210 | Effect of poling on piezocatalytic removal of multi-pollutants using $BaTiO_3$. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 1661-1668 | 3.8 | 8 |
| 209 | Surface plasmon resonance triggered promising visible light photocatalysis of $LiNbO_3$ ceramic supported Ag nanoparticles. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 1237-1246 | 3.8 | 2 |
| 208 | Emerging trends in glass-ceramic photocatalysts. <i>Chemical Engineering Journal</i> , 2021 , 407, 126971 | 14.7 | 14 |
| 207 | Piezo/pyro/photo-catalysis activities in $Ba_{0.85}Ca_{0.15}(Ti_{0.9}Zr_{0.1})_{1-x}Fe_xO_3$ ceramics. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 45-56 | 3.8 | 12 |
| 206 | A reduced graphene oxide/bismuth vanadate composite as an efficient piezocatalyst for degradation of organic dye. <i>Materials Advances</i> , 2021 , 2, 4093-4101 | 3.3 | 1 |
| 205 | Universal converse flexoelectricity in dielectric materials via varying electric field direction. <i>International Journal of Smart and Nano Materials</i> , 2021 , 12, 107-128 | 3.6 | 3 |
| 204 | Eggshell derived CaO-Portland cement antibacterial composites. <i>Composites Part C: Open Access</i> , 2021 , 5, 100123 | 1.6 | 7 |
| 203 | Piezocatalysis in ferroelectric $Ba_{0.85}Ca_{0.15}Zr_{0.1}Ti_{0.9}O_3$ /polyvinylidene difluoride (PVDF) composite film. <i>Journal of Applied Physics</i> , 2021 , 130, 085107 | 2.5 | 2 |
| 202 | WS ₂ Monolayer for Piezo-Phototronic Dye Degradation and Bacterial Disinfection. <i>ACS Applied Nano Materials</i> , 2021 , 4, 7879-7887 | 5.6 | 5 |
| 201 | An isogeometric analysis-based investigation of the flexocaloric effect in functionally graded dielectrics. <i>Acta Mechanica</i> , 2021 , 232, 4261 | 2.1 | 0 |
| 200 | Synthesis of BiF ₃ and BiF ₃ -Added Plaster of Paris Composites for Photocatalytic Applications. <i>Energies</i> , 2021 , 14, 5159 | 3.1 | 0 |
| 199 | Effective properties and sensing capabilities of cement-based porous piezocomposites: a comparative study. <i>European Physical Journal Plus</i> , 2021 , 136, 1 | 3.1 | 1 |
| 198 | Polar glass-ceramics for piezocatalytic applications. <i>Journal of Applied Physics</i> , 2021 , 130, 125101 | 2.5 | 1 |
| 197 | Photocatalytic and wettability behavior of regenerative bio-inspired Cu_xO ($x=1,2$). <i>Materials Research Bulletin</i> , 2021 , 144, 111489 | 5.1 | 1 |
| 196 | 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 |

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| 195 | Solar Energy Harvesting using Candle-Soot-Coated Thermoelectric Materials. <i>Global Challenges</i> , 2020 , 4, 1900080 | 4.3 | 4 |
| 194 | Enhanced dye adsorption and rapid photocatalysis of candle soot coated BaTiO ₃ ceramics. <i>Materials Chemistry and Physics</i> , 2020 , 252, 123311 | 4.4 | 14 |
| 193 | Optimization of dye removal by diesel exhaust emission soot using response surface methodology. <i>Environmental Progress and Sustainable Energy</i> , 2020 , 39, e13419 | 2.5 | 3 |
| 192 | Multicatalytic behavior of Ba _{0.85} Ca _{0.15} Ti _{0.9} Zr _{0.1} O ₃ ceramics for pharmaceutical/dye/bacterial treatments. <i>Journal of Applied Physics</i> , 2020 , 127, 135103 | 2.5 | 22 |
| 191 | Effect of Porosity on Energy Harvesting Performance of 0.5Ba(Ca _{0.8} Zr _{0.2})O ₃ / 0.5(Ba _{0.7} Ca _{0.3})TiO ₃ Ceramics: A Numerical Study. <i>Energy Technology</i> , 2020 , 8, 1901302 | 3.5 | 6 |
| 190 | Exploring the piezocatalytic dye degradation capability of lithium niobate. <i>Advanced Powder Technology</i> , 2020 , 31, 1771-1775 | 4.6 | 26 |
| 189 | Vibration energy harvesting for degradation of dye and bacterial cells using cement-based Ba _{0.85} Ca _{0.15} Zr _{0.1} Ti _{0.9} O ₃ composites. <i>Materials Today Communications</i> , 2020 , 25, 101592 | 2.5 | 2 |
| 188 | Transparent ferroelectric glass/ceramics for wastewater treatment by piezocatalysis. <i>Communications Materials</i> , 2020 , 1, | 6 | 7 |
| 187 | Tunable adsorption activity of candle soot nanoparticles depending on the flame height. <i>Engineering Research Express</i> , 2020 , 2, 035018 | 0.9 | 1 |
| 186 | Anticorrosion and electromagnetic interference shielding behavior of candle soot-based epoxy coating. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48678 | 2.9 | 6 |
| 185 | Poling tuning: A plausible solution for minimizing microphony and secondary pyroelectric coefficient in ferroelectrics. <i>International Journal of Applied Ceramic Technology</i> , 2020 , 17, 1328-1333 | 2 | 3 |
| 184 | Candle soot-coated egg carton material for oil water separation and detergent adsorption. <i>Bulletin of Materials Science</i> , 2020 , 43, 1 | 1.7 | 5 |
| 183 | Structural, thermal and dielectric properties and thermal degradation kinetics of nylon 11/CaCu ₃ Ti ₄ O ₁₂ (CCTO) nanocomposites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 141, 1123-1135 | 4.1 | 14 |
| 182 | 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 |
| 181 | Processing Li ₂ O-Al ₂ O ₃ -SiO ₂ (LAS) glass-ceramic with and without P ₂ O ₅ through bulk and sintering route. <i>Journal of Non-Crystalline Solids</i> , 2020 , 550, 120289 | 3.9 | 5 |
| 180 | Effect of poling condition on piezocatalysis activity of BaTiO ₃ -cement composites. <i>Materials Letters</i> , 2020 , 280, 128583 | 3.3 | 5 |
| 179 | Effect of Ce on piezo/photocatalytic effects of Ba _{0.9} Ca _{0.1} Ce _x Ti _{1-x} O ₃ ceramics for dye/pharmaceutical waste water treatment. <i>Materials Research Bulletin</i> , 2020 , 122, 110647 | 5.1 | 23 |
| 178 | Deciphering the importance of graded poling in piezoelectric materials: A numerical study. <i>Engineering Reports</i> , 2020 , 2, e12266 | 1.2 | 2 |

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| 177 | Flexo/electro-caloric performance of BaTi _{0.87} Sn _{0.13} O ₃ ceramics. <i>Applied Physics Letters</i> , 2020 , 117, 092904 | 3.4 | 5 |
| 176 | Pyroelectric energy harvesting for dye decolorization using Ba _{0.9} Ca _{0.1} TiO ₃ ceramics. <i>Journal of Applied Physics</i> , 2020 , 128, 095108 | 2.5 | 5 |
| 175 | Pyroelectric performance of [Bi _{0.48} Na _{0.4032} K _{0.0768}]Sr _{0.04} (Ti _{0.975} Nb _{0.025})O ₃ ceramics. <i>Journal of the Australian Ceramic Society</i> , 2020 , 56, 395-402 | 1.5 | 0 |
| 174 | Melt quenched V ₂ O ₅ /BiVO ₄ composite: A novel and promising adsorbent and photocatalyst. <i>Materials Chemistry and Physics</i> , 2020 , 240, 122238 | 4.4 | 8 |
| 173 | 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 |
| 172 | Dye degradation and bacterial disinfection using multicycatalytic BaZr _{0.02} Ti _{0.98} O ₃ ceramics. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 4774-4784 | 3.8 | 25 |
| 171 | Ag nanoparticles loaded Ba _{0.85} Ca _{0.15} Ti _{0.9} Zr _{0.1} O ₃ for multicycatalytic dye degradation. <i>Nanotechnology</i> , 2020 , | 3.4 | 6 |
| 170 | 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 |
| 169 | Vibration induced refrigeration and energy harvesting using piezoelectric materials: a finite element study. <i>RSC Advances</i> , 2019 , 9, 3918-3926 | 3.7 | 8 |
| 168 | Multifunctional diesel exhaust emission soot coated sponge for water treatment. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 8148-8156 | 5.1 | 17 |
| 167 | Bi _{0.5} Na _{0.5} TiO ₃ -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 |
| 166 | Diesel soot coated non-woven fabric for oil-water separation and adsorption applications. <i>Scientific Reports</i> , 2019 , 9, 8503 | 4.9 | 17 |
| 165 | Crystallisation studies on site saturated lithium aluminosilicate (LAS) glass. <i>Thermochimica Acta</i> , 2019 , 679, 178311 | 2.9 | 10 |
| 164 | Transparent ZnO crystallized glass ceramics for photocatalytic and antibacterial applications. <i>Journal of Applied Physics</i> , 2019 , 125, 175102 | 2.5 | 14 |
| 163 | Rapid bacterial disinfection using low frequency piezocatalysis effect. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 77, 355-364 | 6.3 | 27 |
| 162 | Photocatalytic, piezocatalytic, and piezo-photocatalytic effects in ferroelectric (Ba _{0.875} Ca _{0.125})(Ti _{0.95} Sn _{0.05})O ₃ ceramics. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 5807-5817 | 3.8 | 32 |
| 161 | Diesel Exhaust Emission Soot Coated Pyroelectric Materials for Improved Thermal Energy Harvesting. <i>Global Challenges</i> , 2019 , 3, 1800089 | 4.3 | 6 |
| 160 | Dielectric properties of nylon 11/CaCu ₃ Ti ₄ O ₁₂ (CCTO) nanocomposite films with high permittivity. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019 , 26, 568-575 | 2.3 | 7 |

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| 159 | Vibration induced refrigeration using ferroelectric materials. <i>Scientific Reports</i> , 2019 , 9, 3922 | 4.9 | 1 |
| 158 | Effect of poling orientation on piezoelectric materials operating in longitudinal mode. <i>Materials Research Express</i> , 2019 , 6, 065711 | 1.7 | 5 |
| 157 | Effect of poling direction and porosity on piezoelectric figures of merit: A numerical study. <i>European Physical Journal Plus</i> , 2019 , 134, 1 | 3.1 | 3 |
| 156 | Impact of remnant surface polarization on photocatalytic and antibacterial performance of BaTiO ₃ . <i>Journal of the European Ceramic Society</i> , 2019 , 39, 2915-2922 | 6 | 35 |
| 155 | Pyroelectric energy conversion using Ba _{0.85} Sr _{0.15} Zr _{0.1} Ti _{0.9} O ₃ ceramics and its cement-based composites. <i>Journal of Intelligent Material Systems and Structures</i> , 2019 , 30, 869-877 | 2.3 | 10 |
| 154 | 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 |
| 153 | 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 |
| 152 | Transparent CaF ₂ surface crystallized CaO/B ₂ O ₃ glass possessing efficient photocatalytic and antibacterial properties. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 5127-5137 | 3.8 | 8 |
| 151 | Enhanced dye adsorption and rapid photo catalysis in candle soot coated Bi ₂ WO ₆ ceramics. <i>Engineering Research Express</i> , 2019 , 1, 025056 | 0.9 | 5 |
| 150 | Influence of LiNbO ₃ crystallization on the optical, dielectric and nanoindentation properties of the 30SiO ₂ B ₅ Li ₂ O/B ₅ Nb ₂ O ₅ glass. <i>Journal of Applied Physics</i> , 2019 , 126, 214101 | 2.5 | 9 |
| 149 | Tunable wettability and adsorption activity of candle soot coated steel mesh. <i>Engineering Research Express</i> , 2019 , 1, 025044 | 0.9 | 1 |
| 148 | Candle soot: Journey from a pollutant to a functional material. <i>Carbon</i> , 2019 , 144, 684-712 | 10.4 | 57 |
| 147 | Tunable surface adsorption and wettability of candle soot coated on ferroelectric ceramics. <i>Journal of Advanced Research</i> , 2019 , 16, 35-42 | 13 | 13 |
| 146 | Controlled crystallization of BiOCl/BiF ₃ on ZnO/Bi ₂ O ₃ /B ₂ O ₃ glass surfaces for photocatalytic and self-cleaning applications. <i>Materialia</i> , 2019 , 5, 100196 | 3.2 | 5 |
| 145 | Antibacterial and photocatalytic active transparent TiO ₂ crystallized CaO/BaO/B ₂ O ₃ /Al ₂ O ₃ /TiO ₂ /ZnO glass nanocomposites. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 3378-3390 | 3.8 | 12 |
| 144 | Smart Materials Selection for Thermal Energy Efficient Architecture. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , 2019 , 89, 11-21 | 0.9 | 3 |
| 143 | Piezoelectric energy harvester for pacemaker application: a comparative study. <i>Materials Research Express</i> , 2018 , 5, 075701 | 1.7 | 5 |
| 142 | Large Gain in Pyroelectric Energy Conversion through a Candle Soot Coating. <i>Energy Technology</i> , 2018 , 6, 950-955 | 3.5 | 8 |

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|-----|--|-----|----|
| 141 | Poling direction driven large enhancement in piezoelectric performance. <i>Scripta Materialia</i> , 2018 , 151, 76-81 | 5.6 | 17 |
| 140 | Flexoelectric effect in functionally graded materials: A numerical study. <i>European Physical Journal Plus</i> , 2018 , 133, 1 | 3.1 | 10 |
| 139 | Solar light induced antibacterial performance of TiO ₂ crystallized glass ceramics. <i>International Journal of Applied Glass Science</i> , 2018 , 9, 480-486 | 1.8 | 7 |
| 138 | Functional Cementitious Composites for Pyroelectric Applications. <i>Journal of Electronic Materials</i> , 2018 , 47, 2378-2385 | 1.9 | 9 |
| 137 | Lead-Free Pyroelectric Materials for Thermal Energy Harvesting: A Comparative Study. <i>Energy Technology</i> , 2018 , 6, 943-949 | 3.5 | 5 |
| 136 | Hierarchical growth of BiOCl on SrO-Bi ₂ O ₃ -B ₂ O ₃ glass-ceramics for self-cleaning applications. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 2901-2913 | 3.8 | 10 |
| 135 | Electrocaloric behavior and temperature dependent scaling of dynamic hysteresis of Ba _x Sr _{1-x} TiO ₃ (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 |
| 134 | Controlled crystallization of photocatalytic active Bismuth oxyfluoride/Bismuth fluoride on SrO-Bi ₂ O ₃ -B ₂ O ₃ transparent glass ceramic. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 3635-3642 ⁶ | | 10 |
| 133 | Photocatalytic Active Bismuth Fluoride/Oxyfluoride Surface Crystallized 2Bi ₂ O ₃ -B ₂ O ₃ Glass Ceramics. <i>Journal of Electronic Materials</i> , 2018 , 47, 3490-3496 | 1.9 | 8 |
| 132 | Pyroelectric performance of BaTi _{1-x} Sn _x O ₃ ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2018 , 15, 546-553 | 2 | 13 |
| 131 | Structural Optimization for Wideband Flexoelectric Energy Harvester Using Bulk Paraelectric Ba _{0.6} Sr _{0.4} TiO ₃ . <i>Journal of Electronic Materials</i> , 2018 , 47, 394-401 | 1.9 | 3 |
| 130 | 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 |
| 129 | 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 |
| 128 | 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 |
| 127 | Finite Element Study on Performance of Piezoelectric Bimorph Cantilevers Using Porous/Ceramic/ Polymer Composites. <i>Journal of Electronic Materials</i> , 2018 , 47, 233-241 | 1.9 | 10 |
| 126 | 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 |
| 125 | Surface-selective bactericidal effect of poled ferroelectric materials. <i>Journal of Applied Physics</i> , 2018 , 124, 014901 | 2.5 | 12 |
| 124 | A numerical study on flexoelectric bistable energy harvester. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1 | 2.6 | 8 |

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|-----|---|------|----|
| 123 | Pyroelectric signals in (Ba,Ca)TiO ₃ -xBa(Sn,Ti)O ₃ ceramics: A viable alternative for lead-based ceramics. <i>Scripta Materialia</i> , 2018 , 146, 146-149 | 5.6 | 13 |
| 122 | Finite Element Study on Acoustic Energy Harvesting Using Lead-Free Piezoelectric Ceramics. <i>Journal of Electronic Materials</i> , 2018 , 47, 1447-1458 | 1.9 | 1 |
| 121 | A Water-Driven Triboelectric Generator for Electrocatalytic Wastewater Treatment. <i>Energy Technology</i> , 2018 , 6, 670-676 | 3.5 | 2 |
| 120 | Photocatalytic study on SrBi ₂ B ₂ O ₇ (SrO-Bi ₂ O ₃ -B ₂ O ₃) transparent glass ceramics. <i>Materials Research Bulletin</i> , 2018 , 99, 453-459 | 5.1 | 19 |
| 119 | Thermomechanical Energy Conversion Potential of Lead-Free 0.50Ba(Zr _{0.2} Ti _{0.8})O ₃ -0.50(Ba _{0.7} Ca _{0.3})TiO ₃ Bulk Ceramics. <i>Energy Technology</i> , 2018 , 6, 872-882 | 3.5 | 12 |
| 118 | Pyroelectric performance of porous Ba _{0.85} Sr _{0.15} TiO ₃ ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2018 , 15, 140-147 | 2 | 15 |
| 117 | Janus nanostructures for heterogeneous photocatalysis. <i>Applied Physics Reviews</i> , 2018 , 5, 041111 | 17.3 | 29 |
| 116 | Adsorption of dyes onto candle soot: Equilibrium, kinetics and thermodynamics. <i>European Physical Journal Plus</i> , 2018 , 133, 1 | 3.1 | 20 |
| 115 | Waste Paper Pulp Derived Reduced Graphene Oxide for Antimicrobial Cement Composites. <i>Journal of Electronic Materials</i> , 2018 , 47, 6862-6867 | 1.9 | 4 |
| 114 | Pyroelectric and impedance studies of the 0.5Ba(Zr _{0.2} Ti _{0.8})O ₃ -0.5(Ba _{0.7} Sr _{0.3})TiO ₃ ceramics. <i>Ceramics International</i> , 2018 , 44, 21976-21981 | 5.1 | 10 |
| 113 | Candle Soot-Driven Performance Enhancement in Pyroelectric Energy Conversion. <i>Journal of Electronic Materials</i> , 2018 , 47, 4721-4730 | 1.9 | 14 |
| 112 | Flexoelectric Induced Caloric Effect in Truncated Pyramid Shaped Ba _{0.67} Sr _{0.33} TiO ₃ Ferroelectric Material. <i>Journal of Electronic Materials</i> , 2017 , 46, 4166-4171 | 1.9 | 6 |
| 111 | Visible light driven multifunctional photocatalysis in TeO ₂ -based semiconductor glass ceramics. <i>Journal of Photonics for Energy</i> , 2017 , 7, 016502 | 1.2 | 5 |
| 110 | Enhanced electrocaloric, pyroelectric and energy storage performance of BaCeTi ₁₀ O ₃ ceramics. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 3927-3933 | 6 | 53 |
| 109 | Portable triboelectric based wind energy harvester for low power applications. <i>European Physical Journal Plus</i> , 2017 , 132, 1 | 3.1 | 14 |
| 108 | Large barocaloric effect and pressure-mediated electrocaloric effect in Pb _{0.99} Nb _{0.02} (Zr _{0.95} Ti _{0.05}) _{0.08} O ₃ ceramics. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 4902-4911 | 3.8 | 5 |
| 107 | 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 |
| 106 | Enhanced pyroelectric figure of merits of porous BaSn _{0.05} Ti _{0.95} O ₃ ceramics. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 3943-3950 | 6 | 27 |

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|-----|--|-----|----|
| 105 | Photocatalytic self-cleaning transparent 2Bi ₂ O ₃ -B ₂ O ₃ glass ceramics. <i>Journal of Applied Physics</i> , 2017 , 122, 094901 | 2.5 | 7 |
| 104 | Pyro-paraelectric effect in ferroelectric materials: A device perspective for transcending Curie limitation. <i>Materials Today Communications</i> , 2017 , 12, 146-151 | 2.5 | 5 |
| 103 | Enhanced performance of ferroelectric materials under hydrostatic pressure. <i>Journal of Applied Physics</i> , 2017 , 122, 224105 | 2.5 | 4 |
| 102 | Engineered microstructure for tailoring the pyroelectric performance of Ba _{0.85} Sr _{0.15} Zr _{0.1} Ti _{0.9} O ₃ ceramics by 3BaO-3TiO ₂ -B ₂ O ₃ glass addition. <i>Applied Physics Letters</i> , 2017 , 110, 232901 | 3.4 | 9 |
| 101 | Enhanced electrocaloric effect in glass-added 0.94Bi _{0.5} Na _{0.5} TiO ₃ -0.06BaTiO ₃ ceramics. <i>Journal of the Australian Ceramic Society</i> , 2017 , 53, 523-529 | 1.5 | 6 |
| 100 | Effect of sintering temperature and dwell time on electrocaloric properties of Ba _{0.85} Ca _{0.075} Sr _{0.075} Ti _{0.90} Zr _{0.10} O ₃ ceramics. <i>Phase Transitions</i> , 2017 , 90, 465-474 | 1.3 | 14 |
| 99 | Performance of K _{0.5} Na _{0.5} NbO ₃ -LiSbO ₃ -CaTiO ₃ ceramics in acoustic energy harvesting exposed to sound pressure. <i>Ferroelectrics</i> , 2016 , 504, 149-159 | 0.6 | 2 |
| 98 | Enhanced electrocatalytic performance of perovskite supported iron oxide nanoparticles for oxygen reduction reaction. <i>RSC Advances</i> , 2016 , 6, 94826-94832 | 3.7 | 13 |
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