Table SII. A comparison of [001] texture quality and piezoelectric coefficients (d33) of tungsten-bronze structure ceramics as a function of texturing approach.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Composition | Template (10 wt%) | Process | Texture Fraction (%) | Piezoelectric Coefficient d33 (pC/N) | Degree of Enhancement |
| Ba2NaNb5O15 (BNN)144 | BNN | Tape cast (TGG) | 80 | --- | --- |
| Sr1.85Ca0.15NaNb5O15 (SCNN)147 | KSN | Tape cast (RTGG) | 88 | 162 | 2.4x |
| Sr0.61Bi0.39Nb2O6 (SBN)145 | BNN | Extrusion (TGG) | 91 | 80 | 6.7x |
| KSr2Nb5O15 (KSN)148 | KNN | Brush (TGG) | 95 | --- | --- |
| KSr2Nb5O15 (KSN)149 | KNN | Extrusion (TGG) | 95 | --- | --- |
| Sr0.61Bi0.39Nb2O6 (SBN)146 | KSN | Gated tape cast (RTGG) | 96 | --- | --- |
| KSr2Nb5O15 (KSN)150 | KSN | Extrusion (TGG) | 97 | 75 | 3.3x |
| KSr2Nb5O15 (KSN)151 | --- | Magnetic alignment (10T) | 99 | 101 | 2.0x |