materials

MDPI

Supplementary Materials

Interface-Dominated Time-Dependent Behavior of Poled Poly(Vinylidene Fluoride–Trifluoroethylene)/ Barium Titanate Composites

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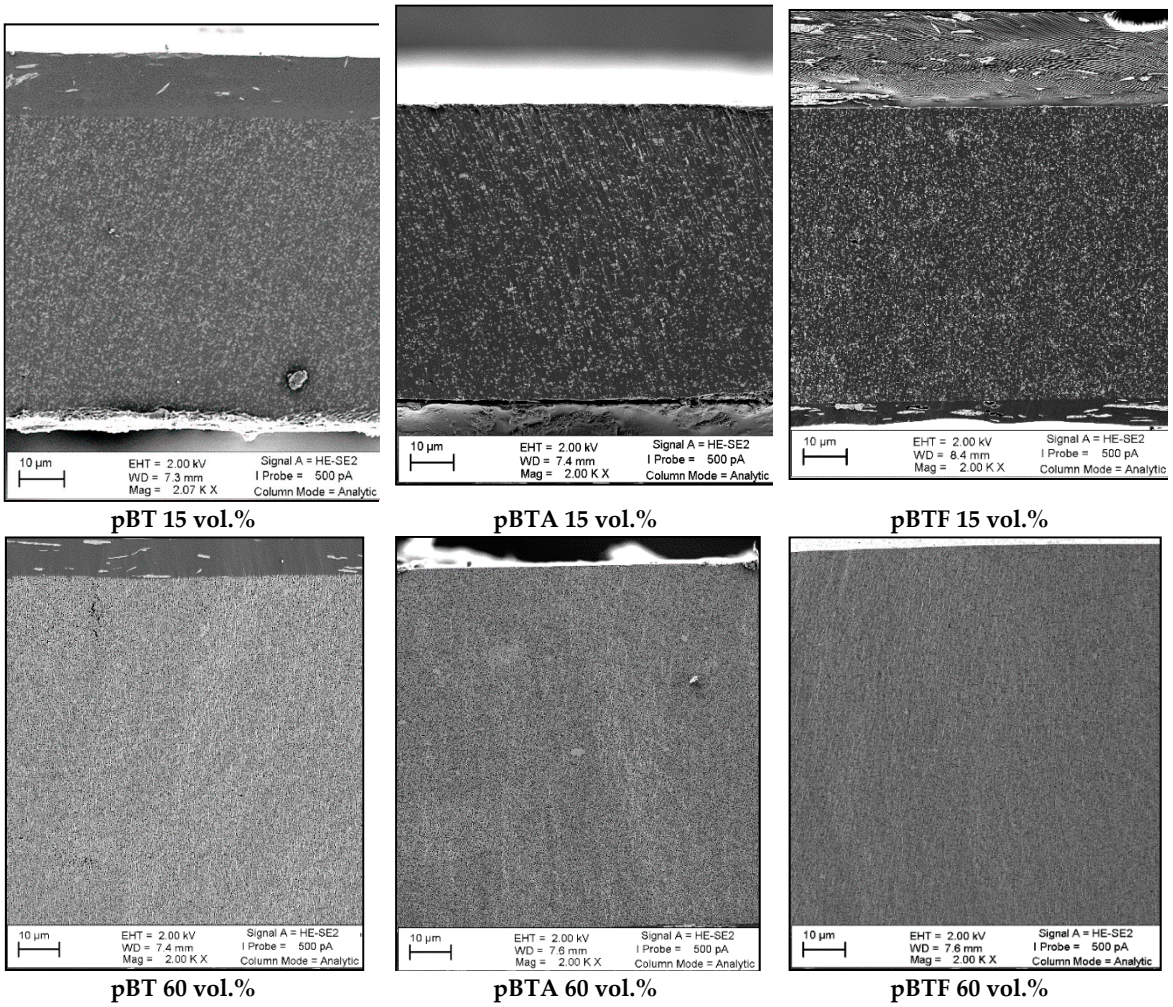


Figure S1. FESEM micrographs of cross-sections of composites with 15 vol.% and 60 vol.% of barium titanate particles, pristine or surface modified.

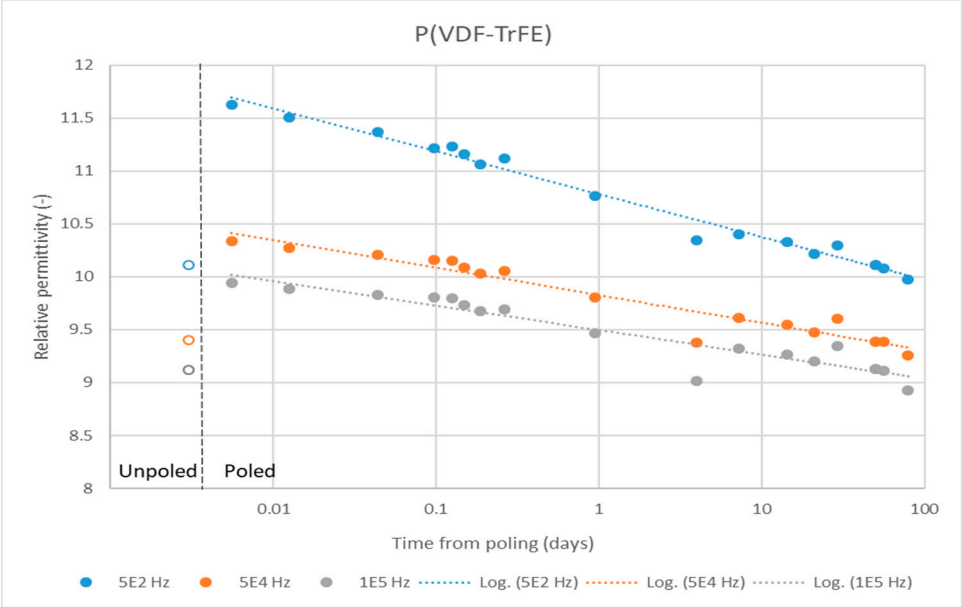
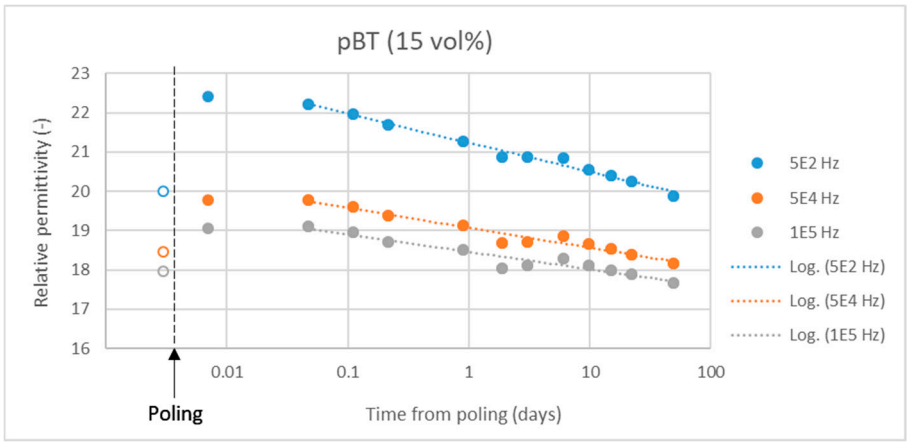
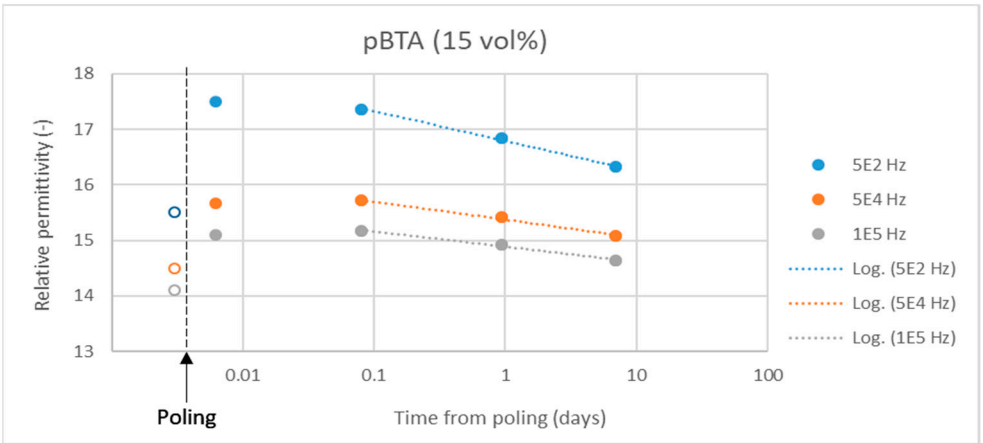


Figure S2. Evolution of permittivity in time, at selected frequencies, of P(VDF-TrFE) before poling (hollow sysmbols) and poled with procedure P1 (full symbols). Logarithmic trendlines are also reported as a guide for the eyes.





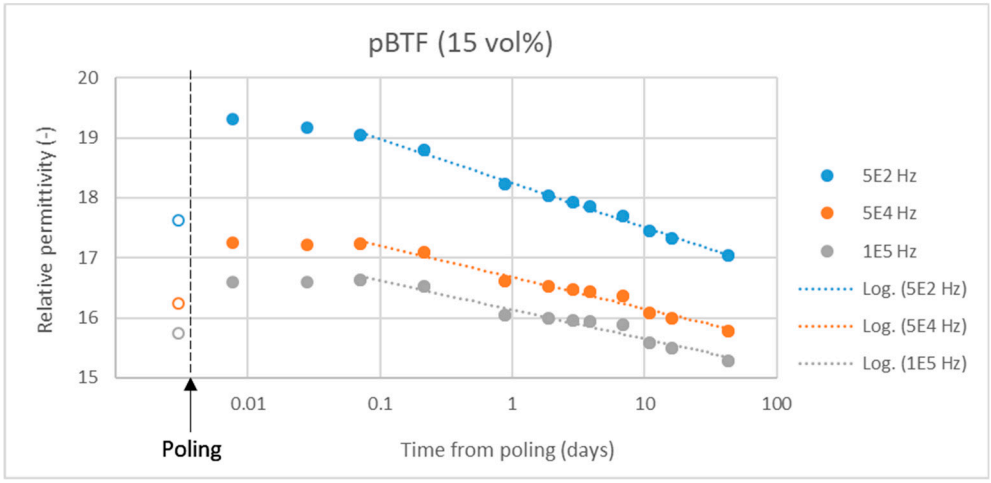
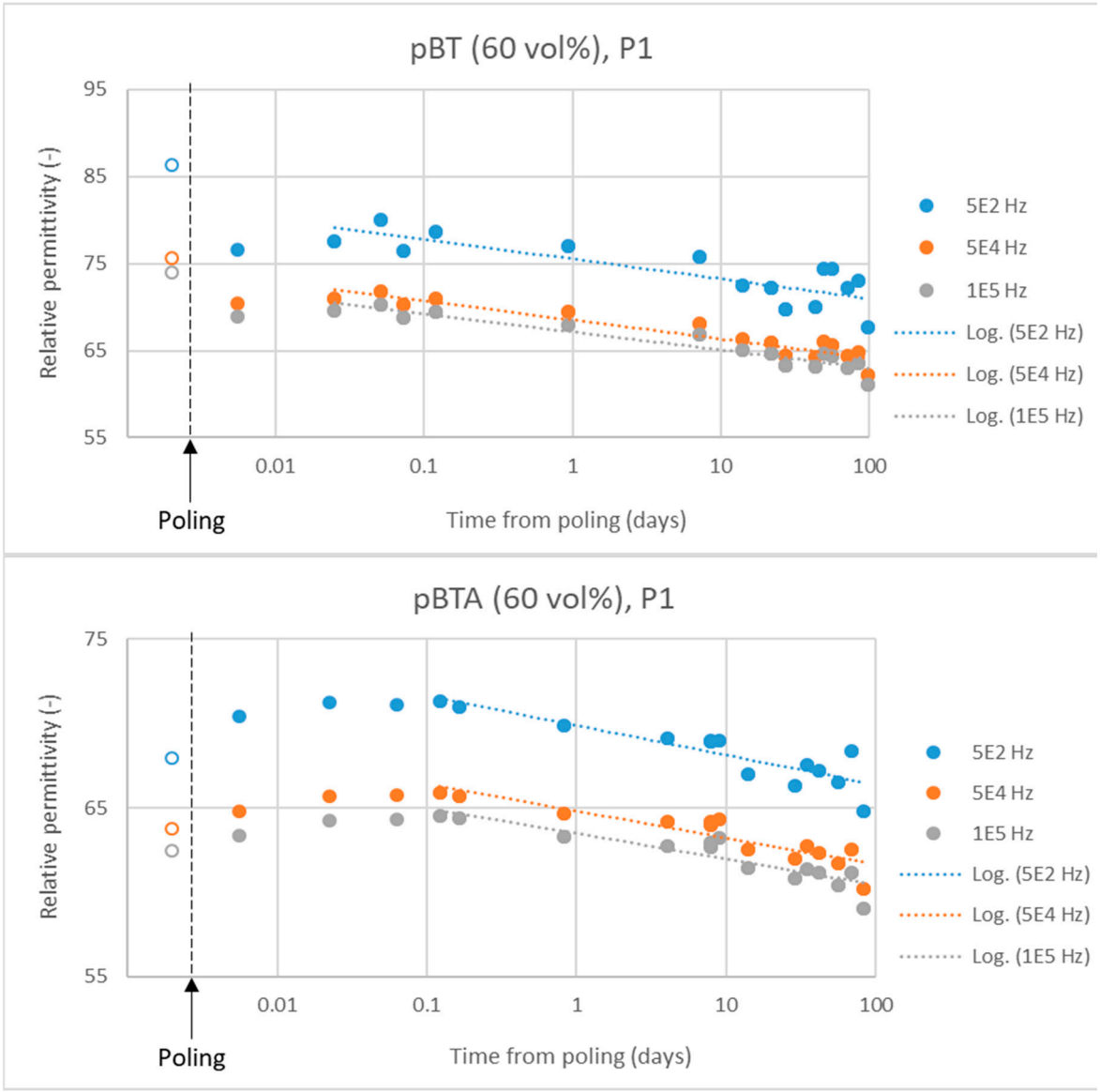


Figure S3. Evolution of permittivity in time, at selected frequencies, of composites with 15 vol.% of ceramic particles before poling (hollow sysmbols) and poled with procedure P1 (full symbols). Logarithmic trendlines are also reported as a guide for the eyes.



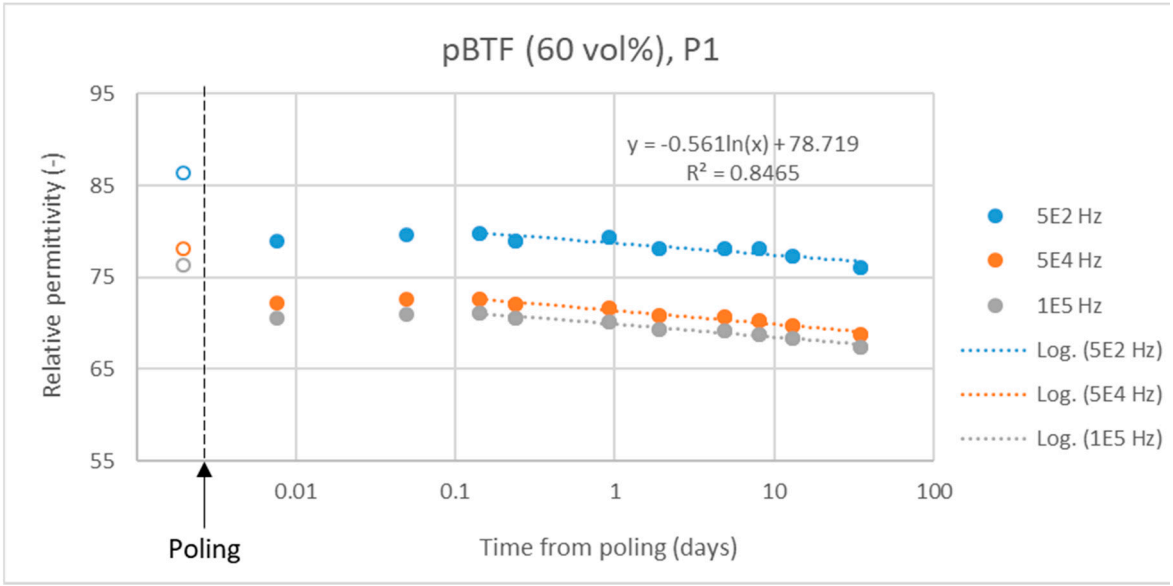
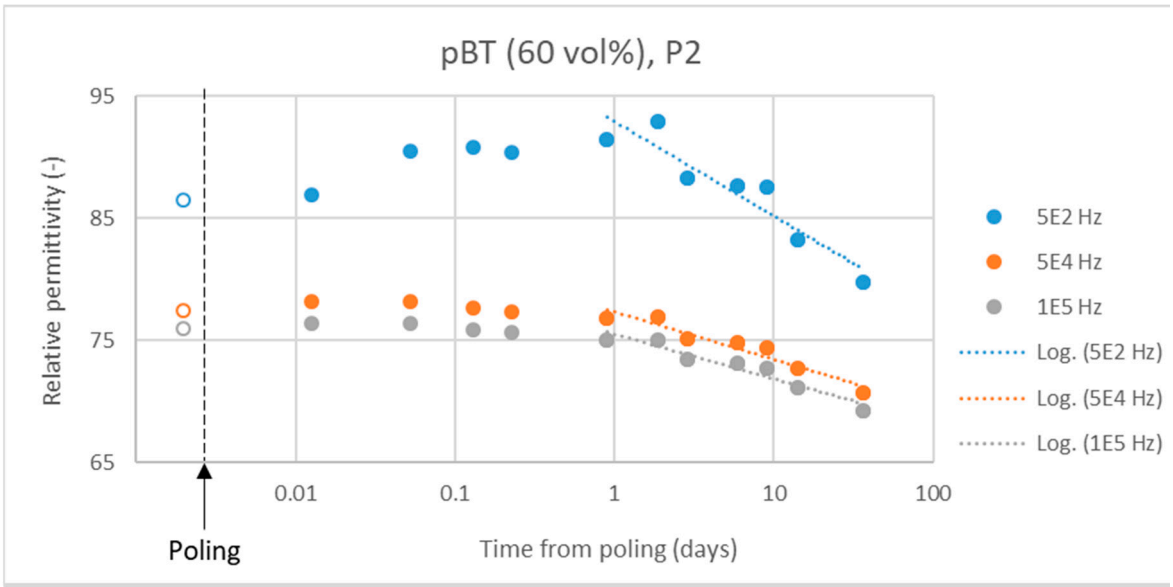
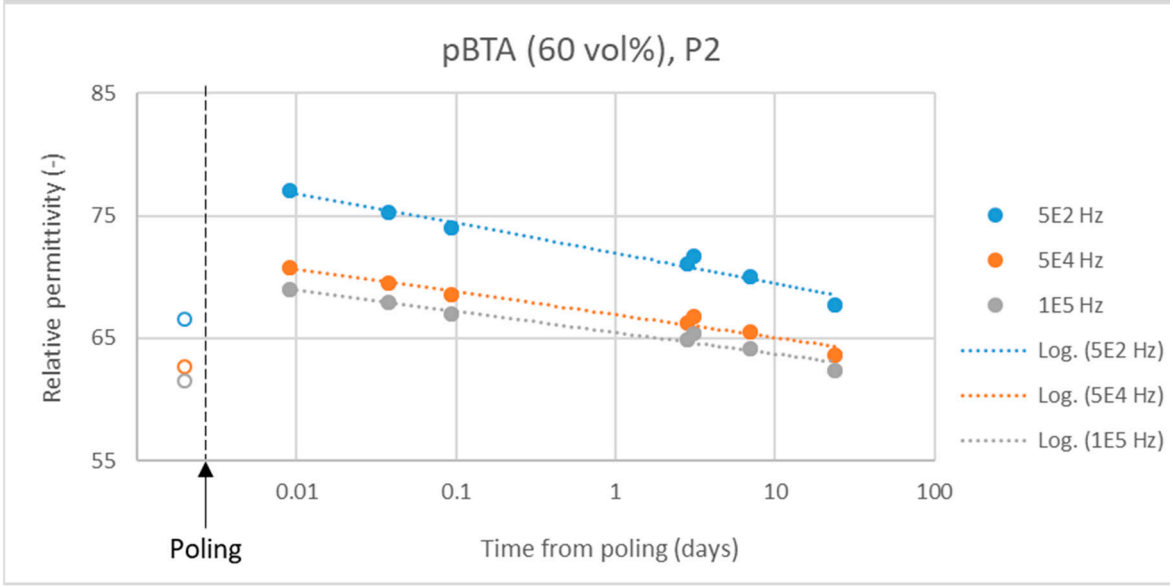


Figure S4. Evolution of permittivity in time, at selected frequencies, of composites with 60 vol.% of ceramic particles before poling (hollow sysmbols) and poled with procedure P1 (full symbols). Logarithmic trendlines are also reported as a guide for the eyes.





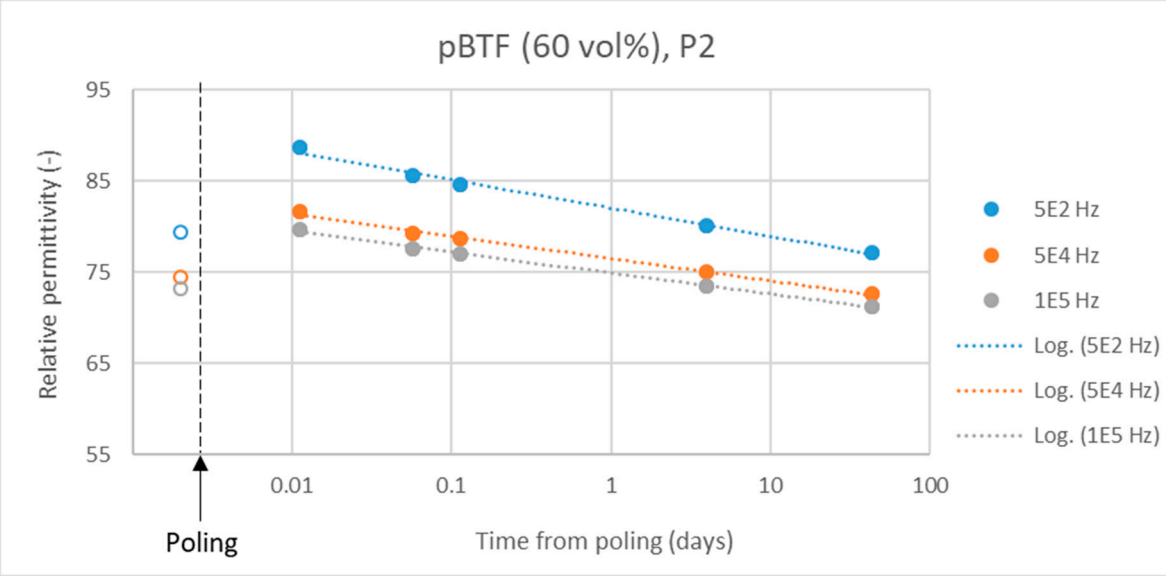


Figure S5. Evolution of permittivity in time, at selected frequencies, of composites with 60 vol.% of ceramic particles before poling (hollow sysmbols) and poled with procedure P1 (full symbols). Logarithmic trendlines are also reported as a guide for the eyes.

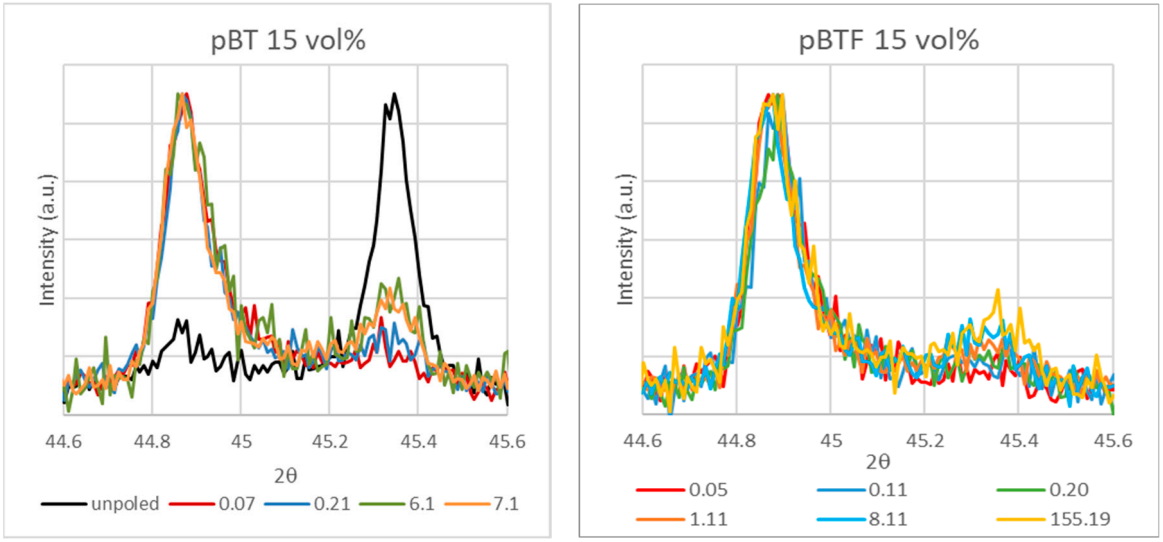


Figure S6. X-ray diffractograms for the pBT and pBTF composites with 15 vol.% of ceramic particles. Time from poling in days is given in the legend.