

Electronic Supplementary Information

Towards materials with enhanced electro-mechanical response: $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ /Polydimethylsiloxane composites

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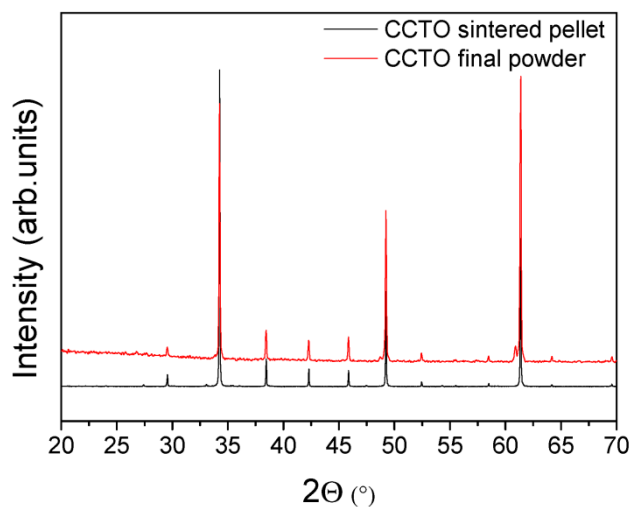
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X-ray diffraction

Crystalline phases were characterised by X-ray diffraction (XRD) on a Diffractometer X'Pert PRO of Panalytical using Cu K_α radiation, on ceramics and on powders obtained by milling the sintered ceramics. Samples were characterised in steps of 0.03° in the range $20\text{--}70^\circ$.



Stress-strain curves

Stress-strain measurements were performed on a tensile test machine (Instron 3366 dynamometer) at 23°C . Dog bone shaped specimens with thickness around 0.5 mm were mechanically cut out from the vulcanized samples. The tests were carried out at a cross-head speed of $200\text{ mm}\cdot\text{min}^{-1}$ with a distance between clamps of 2.0 mm. The elongation during each test was determined by optical measurement (video extensometer) of the displacement of two marker points placed along the waist of the tensile test sample. An average of five measurements for each sample was recorded.

