

Electronic Supplementary Information

Nanoscale structure and unoccupied valence electronic states in $\text{FeSe}_{1-x}\text{Te}_x$ chalcogenides probed by x-ray absorption measurements

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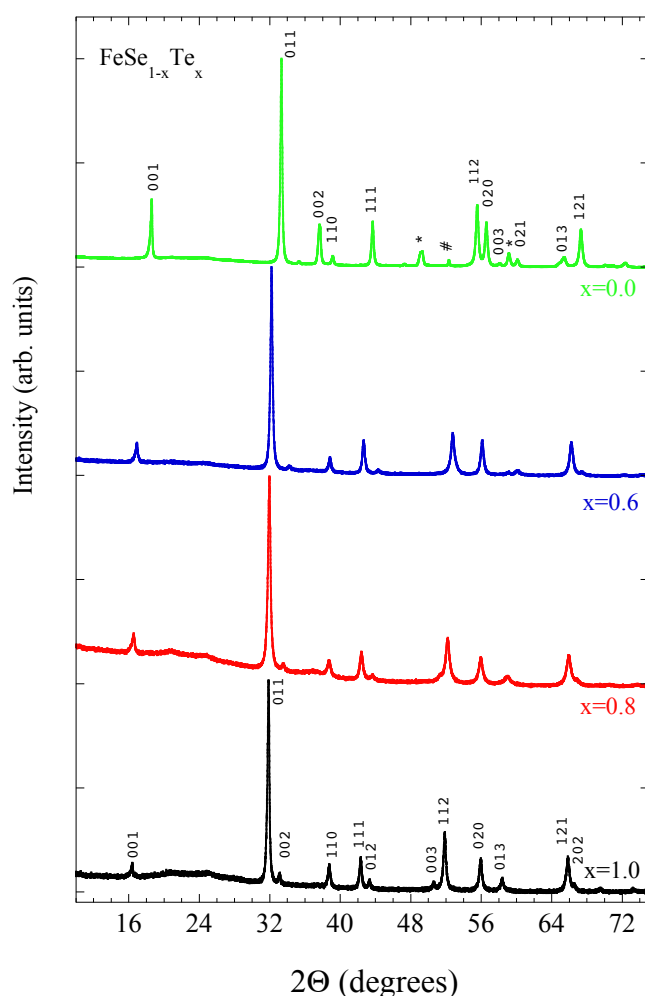


Fig. S1: XRD patterns for several samples of $\text{FeSe}_{1-x}\text{Te}_x$. The diffraction peaks were indexed using a tetragonal $P4/nmm$ space group. A small amount of impurity of hexagonal Fe_7Se_8 phase and unreacted iron was found in the binary FeSe , however, the ternary $\text{FeSe}_{1-x}\text{Te}_x$ were found to be free from any detectable impurity phases.