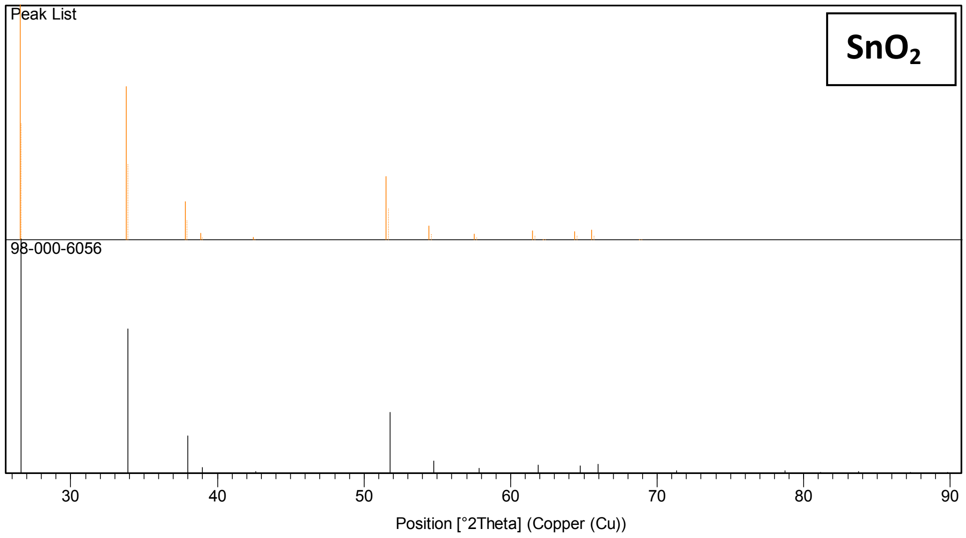
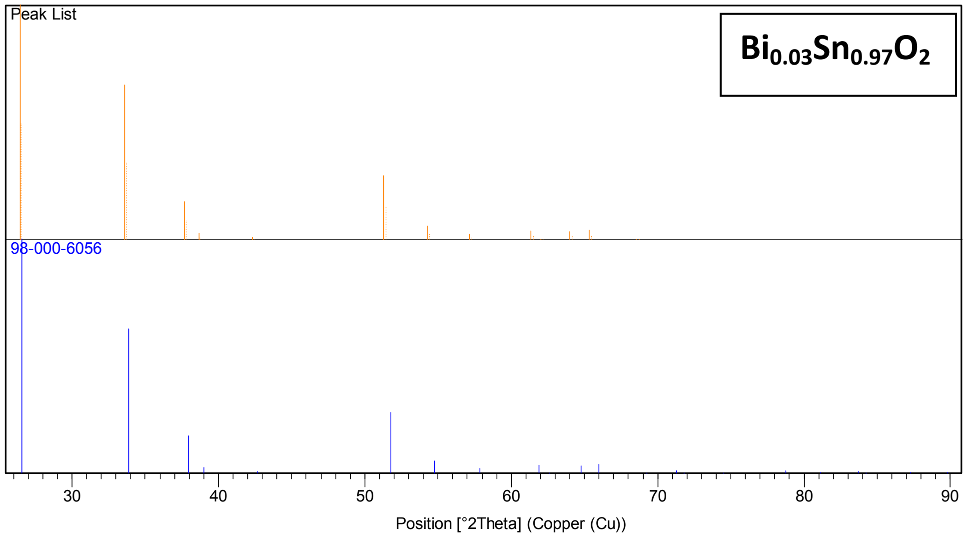
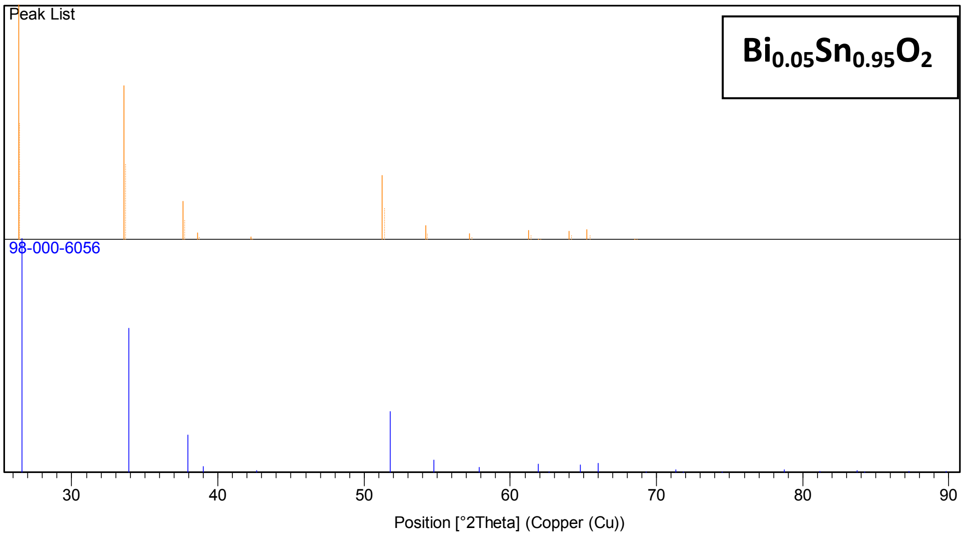
SUPPORTING INFORMATION

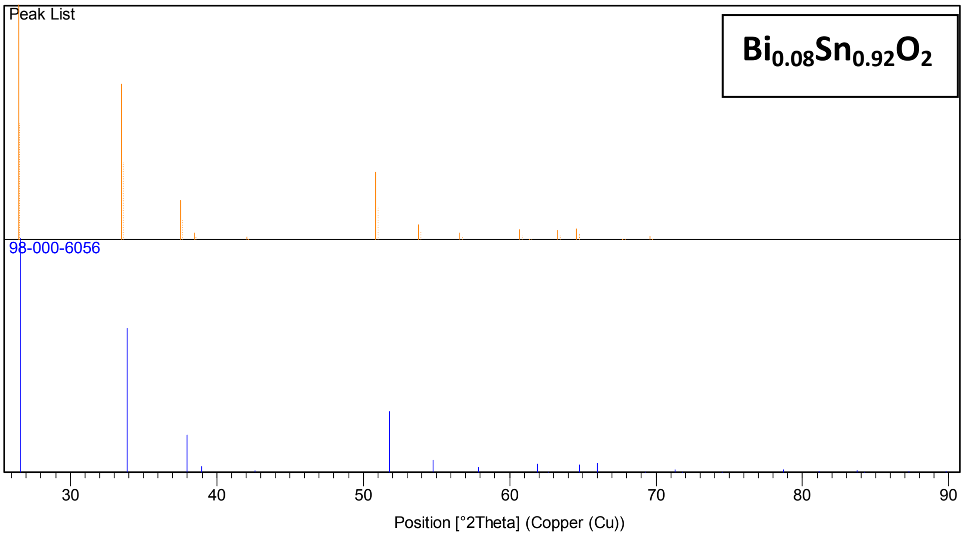
S1

The peak refinement of XRD - Rietveld powder structure refinement method by using PANanalytical X’Pert High Score Plus software



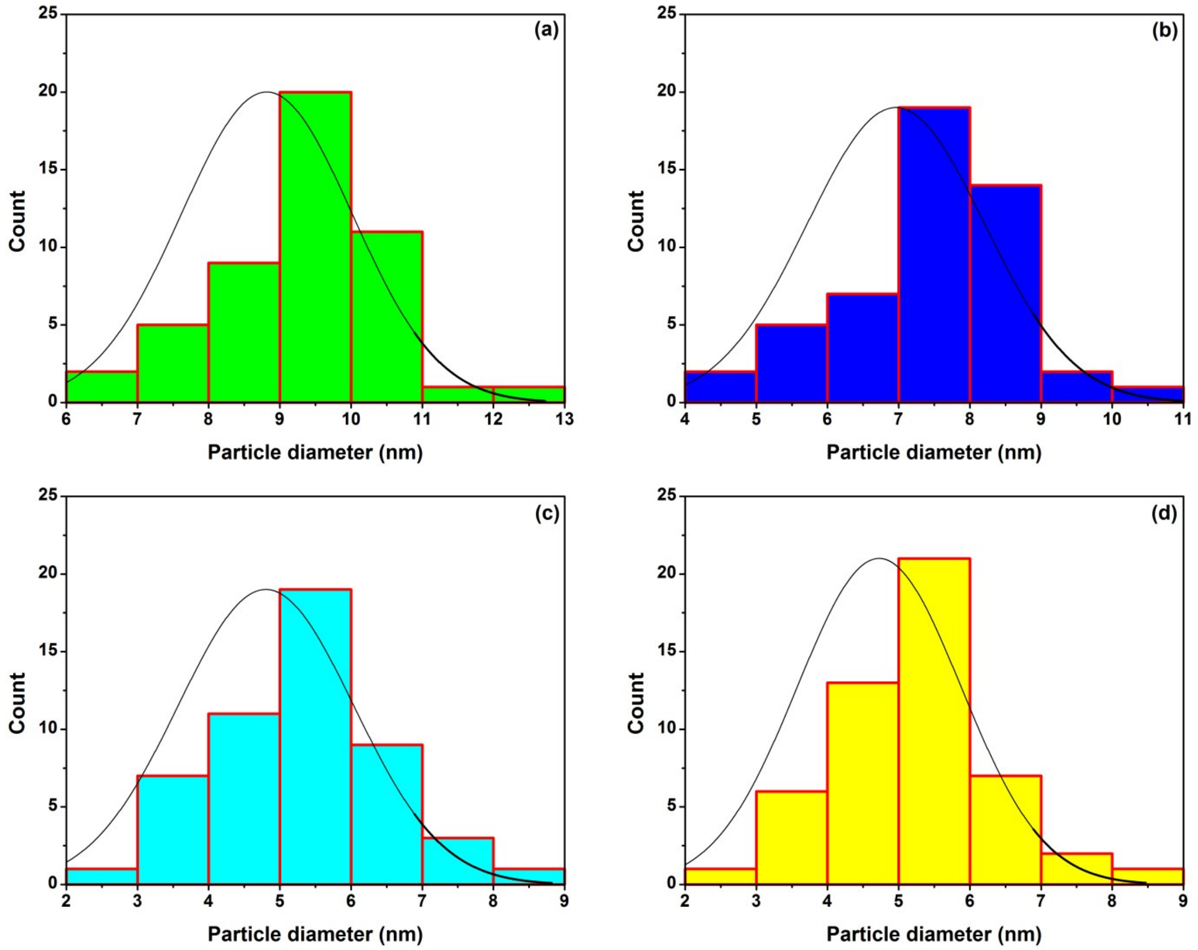



Peak List
$Bi_{0.05}Sn_{0.95}O_2$
98-000-6056
30
40
50
60
70
80
90
Position [°2Theta] (Copper (Cu))


Peak List
$Bi_{0.08}Sn_{0.92}O_2$
98-000-6056
30
40
50
60
70
80
90
Position [°2Theta] (Copper (Cu))

S2

Particle size distribution histogram (a) SnO_2 (b) $Bi_{0.03}Sn_{0.97}O_2$ (c) $Bi_{0.05}Sn_{0.95}O_2$ and (d) $Bi_{0.08}Sn_{0.92}O_2$ ultrananocrystalline particles



S3

XPS Survey spectrum of SnO_2