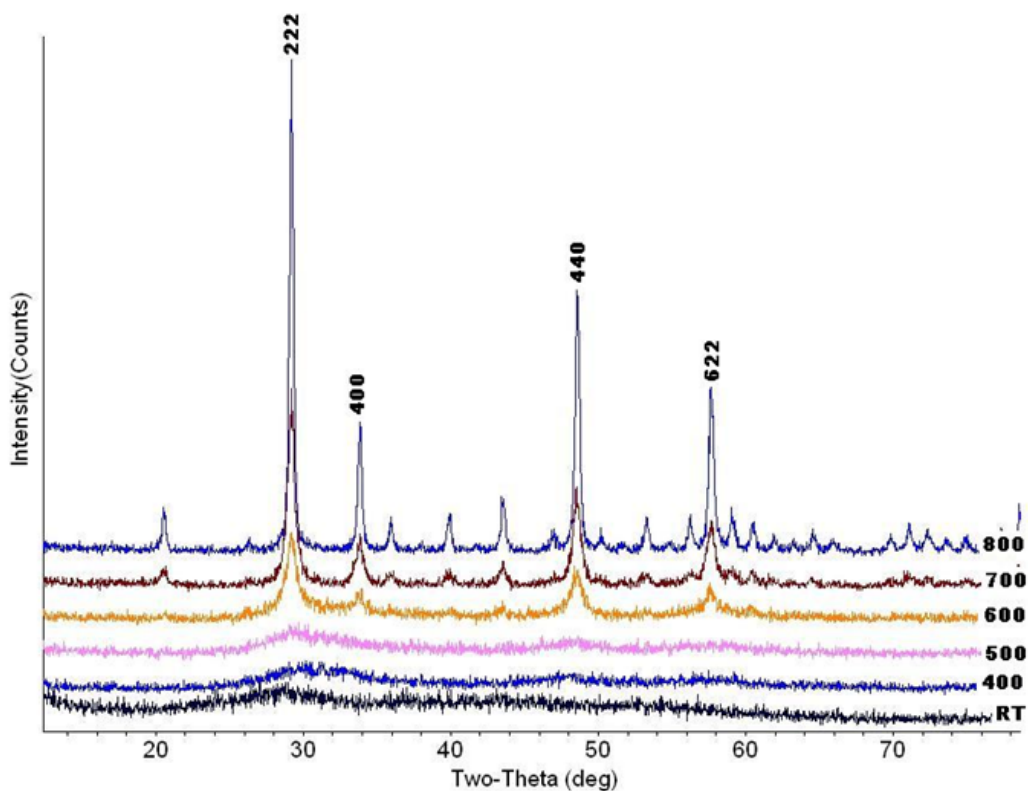
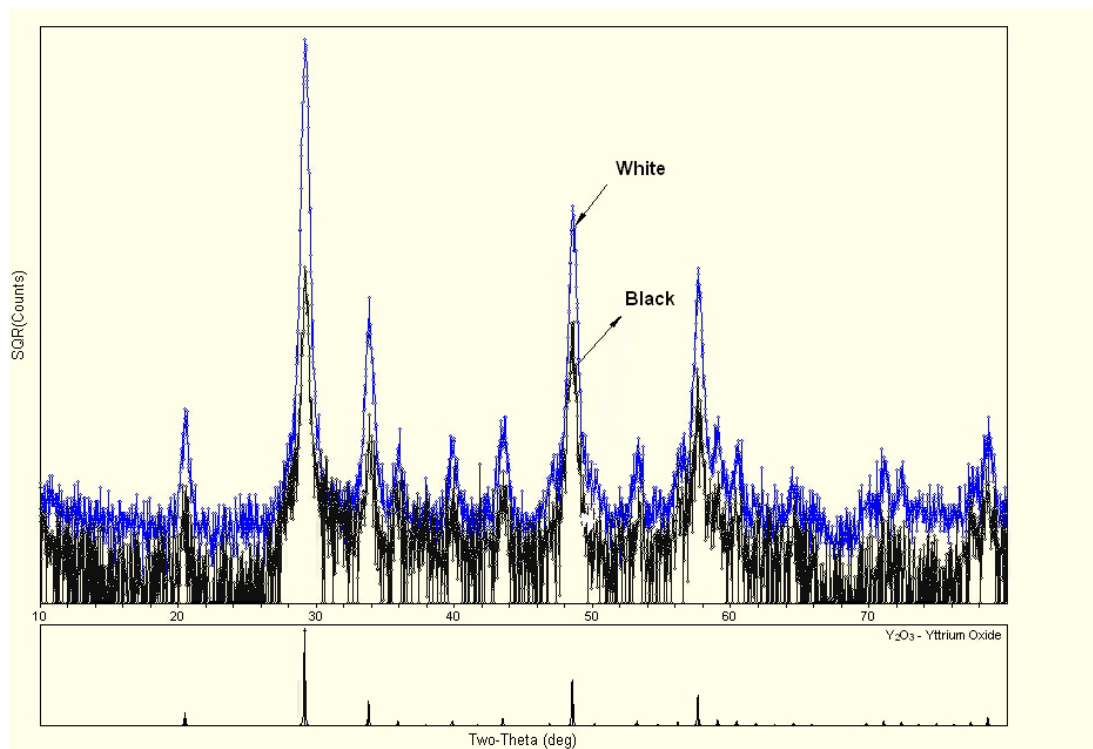


S1. TEM micrographs of a yttrium-based aerogel produced in (A,C) ethanol, and (B,D) methanol.



S2. X-ray diffraction patterns of a yttrium-based xerogel annealed at various temperatures



S3. X-ray diffraction patterns for white and black yttrium oxides in the blue and black lines respectively.