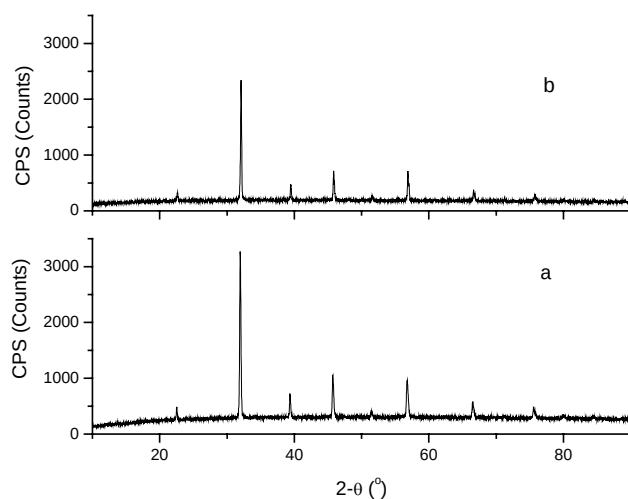




Supplementary Figure.2 X-ray powder diffraction patterns of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ (a) as-synthesized, and (b) after exposure to air for 150 h at 500 °C. All peaks can be indexed on the basis of a cubic perovskite phase, space group Pm-3m (221) with $a = 3.9832(2)$ Å. The compound shows long-term stability under the air environment of the cathode.