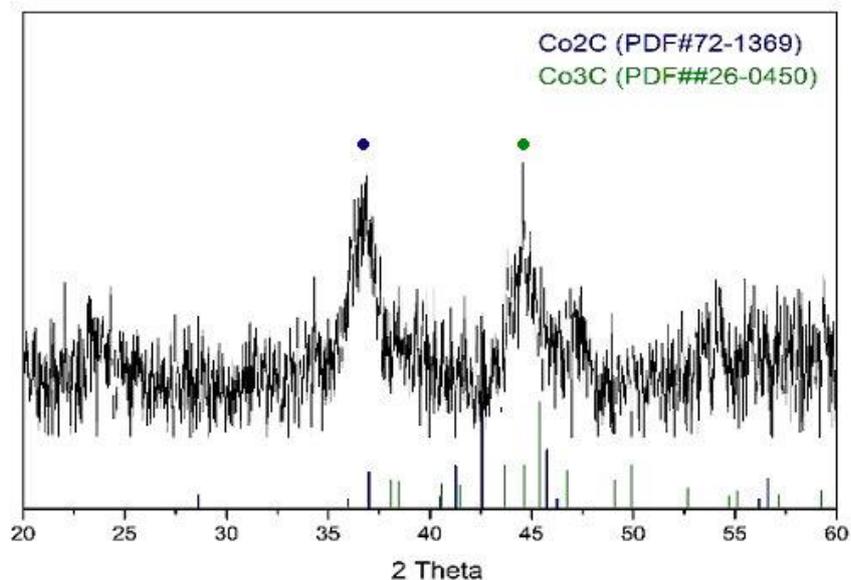
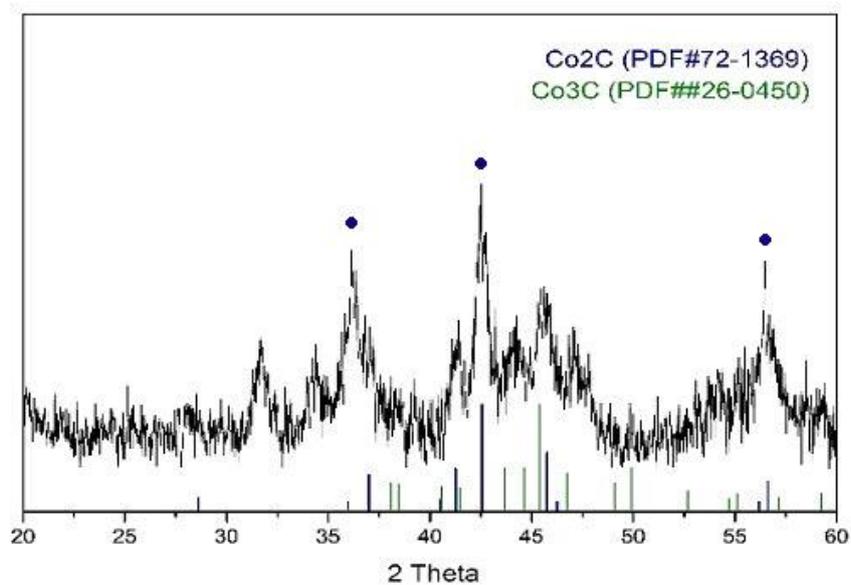


Supplemental Document

Preparation of high activity and stability of cobalt carbide nanoparticle for hydrogen evolution reaction



XRD of Co₃C and Co₂C with TEG and NaOH and react at 300°C for 2 hr.



XRD of Co₂C with TEG and OLA react at 300°C for 3 hr.