**Fig S1** XRD patterns of cobalt phosphide nanoparticles obtained from [Co(Se₂P²Bu₂)₂] precursor in TOP/HDA at 300 °C for different reaction times; ■ orthorhombic Co₂P (JCPDS-32-0306), ▲ orthorhombic CoP (JCPDS-29-0497), ● unidentified phase