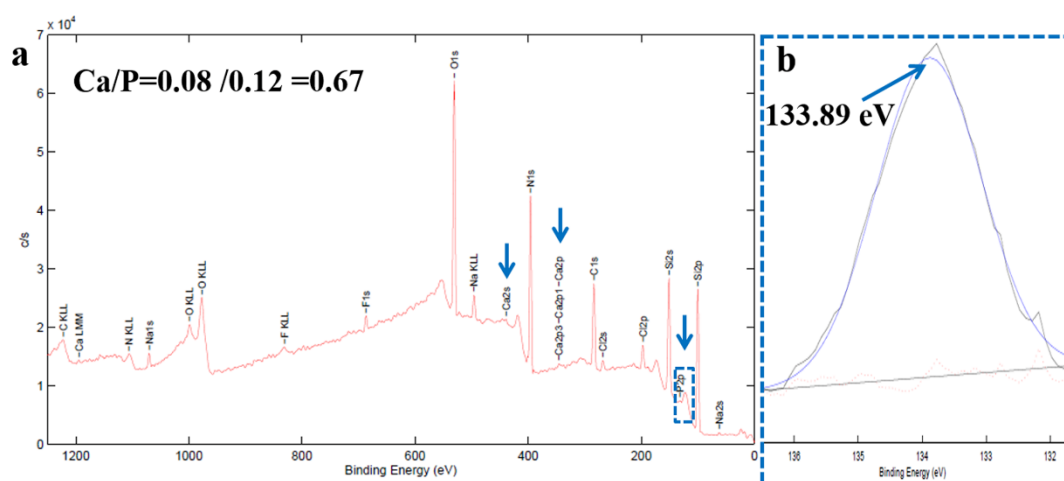




Supplementary Figure 1. The *in situ* synthesized particles are characterized by *post-situ* XPS. The deconvoluted P high energy resolution peak matches with the photoelectron line of 2p_{3/2} of P in CaP.