

Supplementary Information

Controlled synthesis and enhanced luminescence of europium-doped fluorine-substituted hydroxyapatite nanoparticles

Ruixue Sun*, Kezheng Chen, Xiangfeng Wu, Dandan Zhao, Zhenzong Sun

College of Materials Science and Engineering, Qingdao University of Science and
Technology, Qingdao 266042, China

*To whom correspondence should be addressed. Email: sunruixue@qust.edu.cn

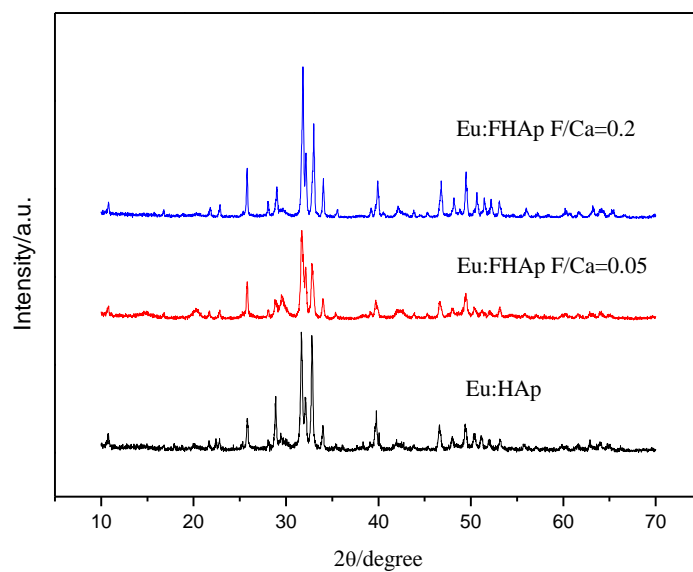


Fig.S1 XRD patterns of Eu:HAp nanoparticles with different F concentration prepared at pH 3.0

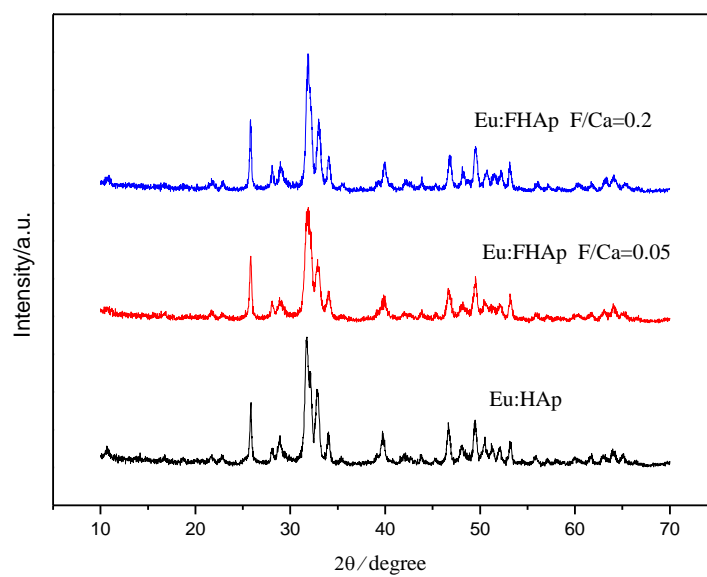


Fig.S2 XRD patterns of Eu:HAp nanoparticles with different F concentration prepared at pH 11.0

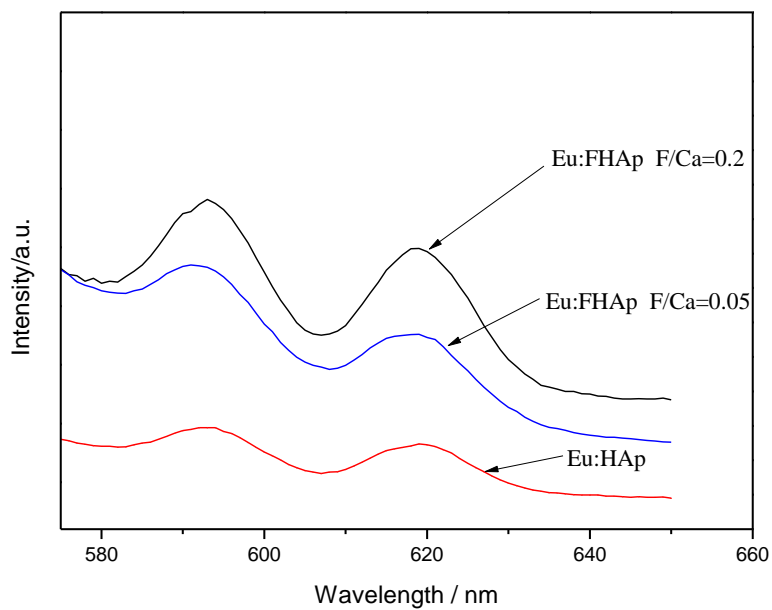


Fig.S3 Photoluminescence spectra of Eu:FHAp (prepared at pH 11.0) under 254 nm excitation.

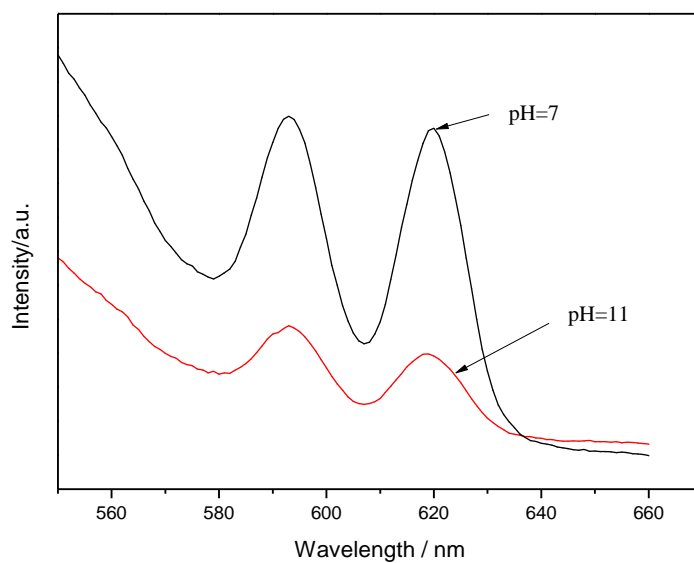


Fig.S4 Photoluminescence spectra of Eu:FHAp (F/Ca = 0.2) under 254 nm excitation.