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Electronic Supplementary Information (ESI)

Hydrothermal Synthesis, Electronic Structure and Tunable Luminescence of Single-Phase $Ca_5(PO_4)_3F$: Tb^{3+}, Eu^{3+} Microrods

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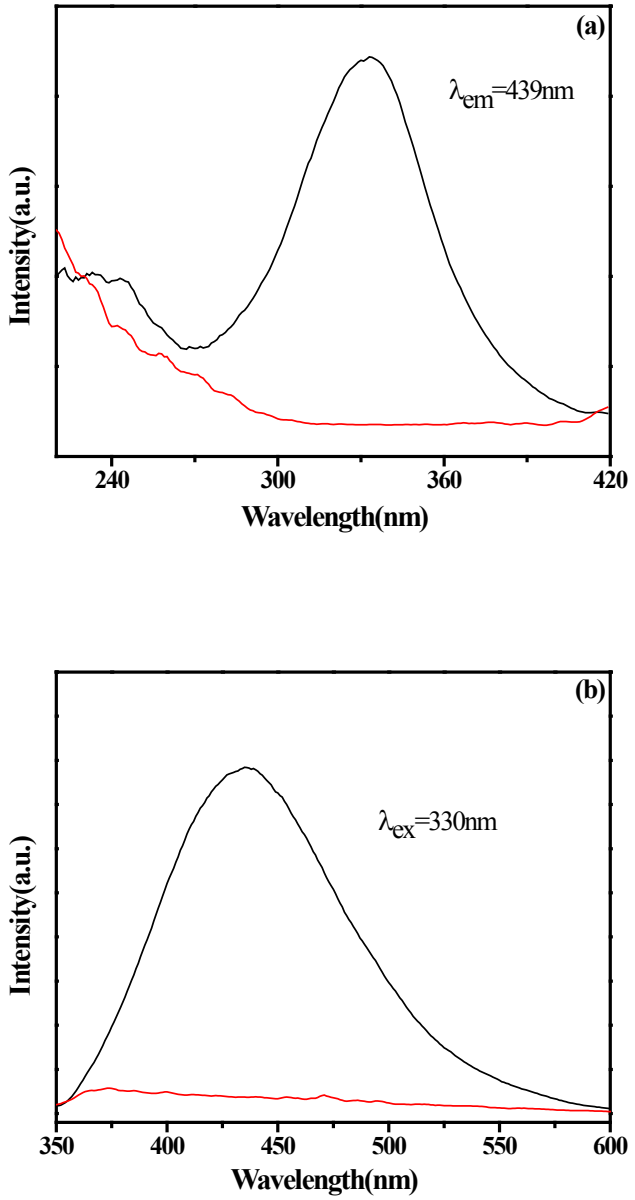

Fig. S1. (a) The excitation (λ_{em}=439nm) and (b) emission (λ_{ex}=330nm) spectra of $Ca_5(PO_4)_3F$ microcrystals (Black line, the sample is prepared in the presence of sodium citrate; red line, the sample is prepared without sodium citrate).

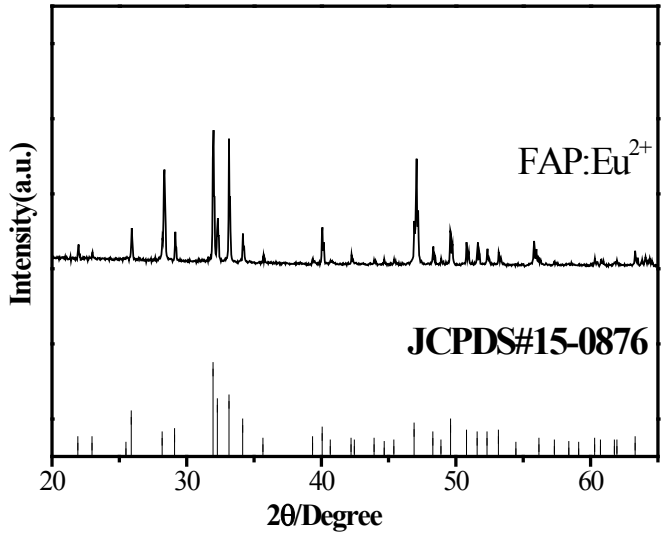

Fig. S2. XRD patterns of Eu^{2+}-doped $Ca_5(PO_4)_3F$ phosphors.

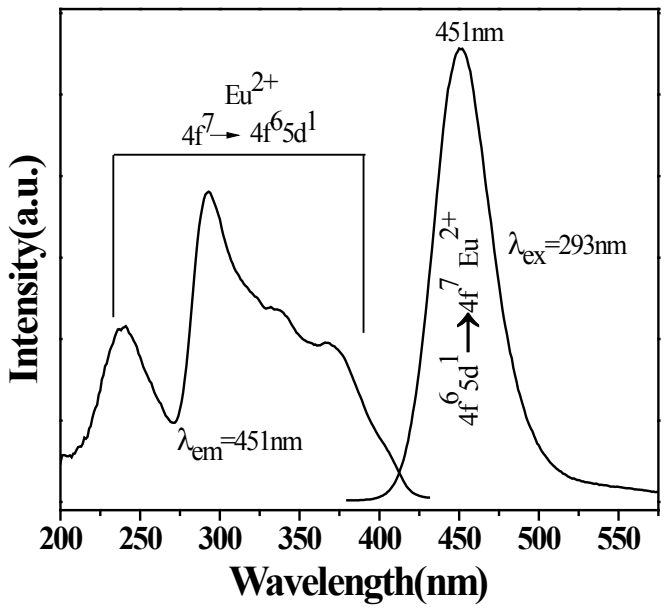

Fig. S3. The excitation (λ_{em}= 451 nm) and emission spectra (λ_{ex}= 293 nm) of $Ca_5(PO_4)_3F$: Eu^{2+}.