Supporting Information

Nanoscale CaF$_2$ doped with Eu$^{3+}$ and Tb$^{3+}$ through fluorolytic sol-gel-synthesis

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DLS measurements of the samples: CaF$_2$:Eu/Tb$_0$.1, CaF$_2$:Eu/Tb2, CaF$_2$:Eu/Tb10
Absorption spectra of CaF$_2$:Eu/Tb10

![Graph 1](image1.png)

Fig. S1 Particle size distributions of CaF$_2$:Eu0.1, CaF$_2$:Eu2, CaF$_2$:Eu10 (left) and CaF$_2$:Tb0.1, CaF$_2$:Tb2, CaF$_2$:Tb10 (right) by DLS measurement.

![Graph 2](image2.png)

Fig. S2 Representative absorption spectra of clear sols of CaF$_2$:Eu10 (left) and CaF$_2$:Tb10 (right).