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ELECTRONIC SUPPLEMENTARY INFORMATION

Local Atomic Environment of Yb^{3+} in Alkaline-Earth Fluorohalide Nanocrystals

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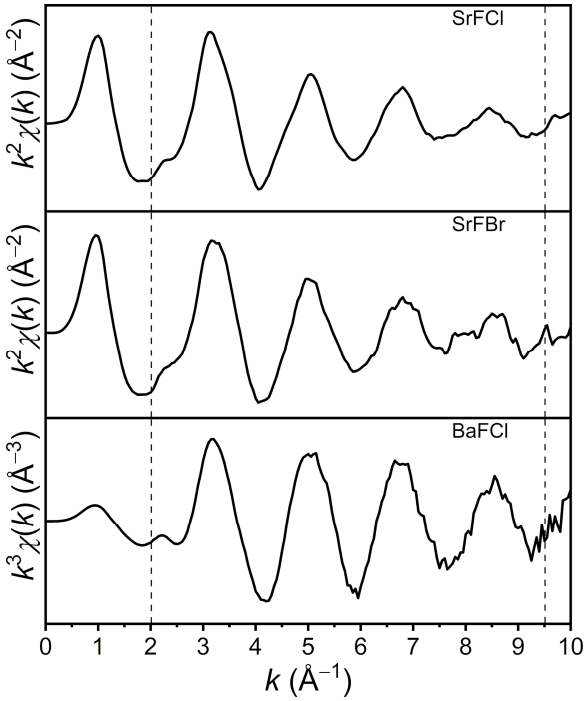

Figure S1. k^2- and k^3-weighted $\chi(k)$ functions of Yb:Er:SrFX and Yb:Er:BaFCl nanocrystals, respectively. k range for the Fourier transform is indicated with vertical dashed lines.

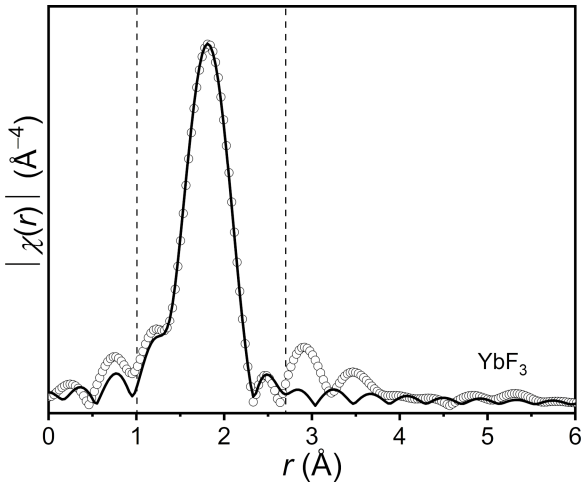

Figure S2. Fit of an YbF_9 monometallic cluster to the radial structure function of bulk YbF_3. Experimental (hollow circles) and calculated functions (solid lines) are shown. $\chi(r)$ was fit in 1.0−2.7 Å r range (depicted with vertical dashed lines).

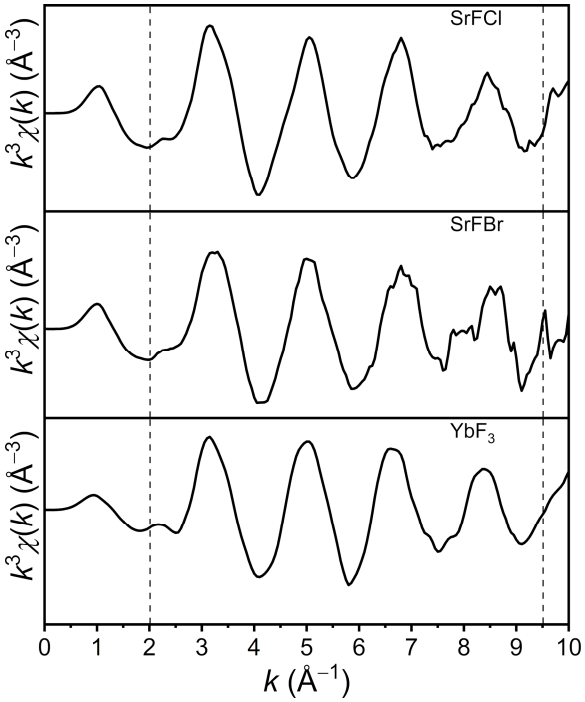

Figure S3. k^3-weighted $\chi(k)$ functions of Yb:Er:SrFX and Yb:Er:BaFCl nanocrystals. k range for the Fourier transform is indicated with vertical dashed lines.