

Supplemental Information

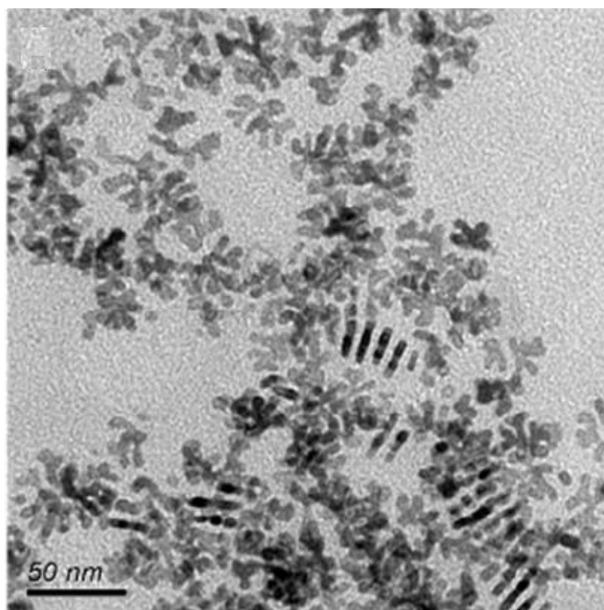


Figure S1 - transmission electron microscope image (TEM) of EuF_3 nanoparticles, showing 'ginger' type morphology. Scale bar = 50 nm.

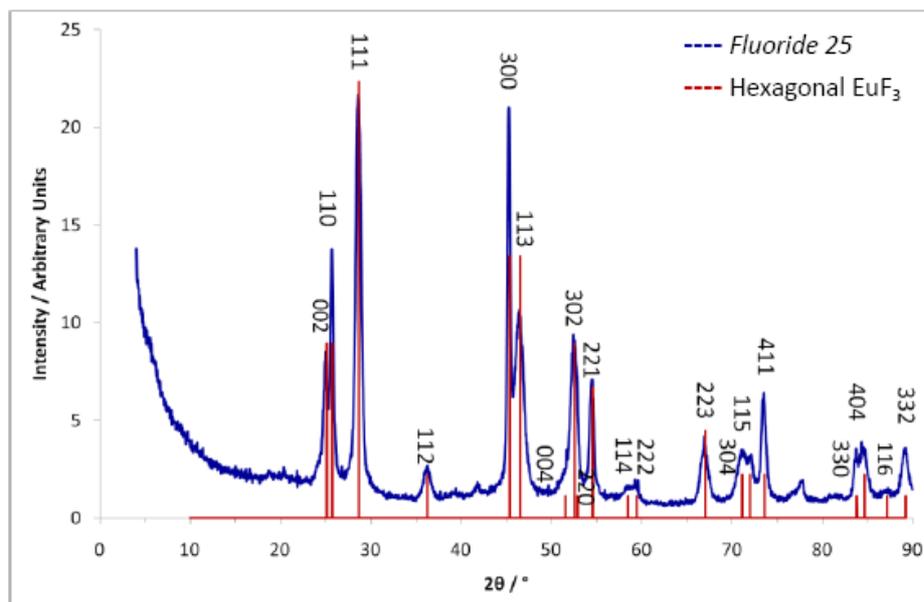


Figure S2 – X-ray diffraction pattern of EuF_3 particles, showing literature values and associated Miller indices.

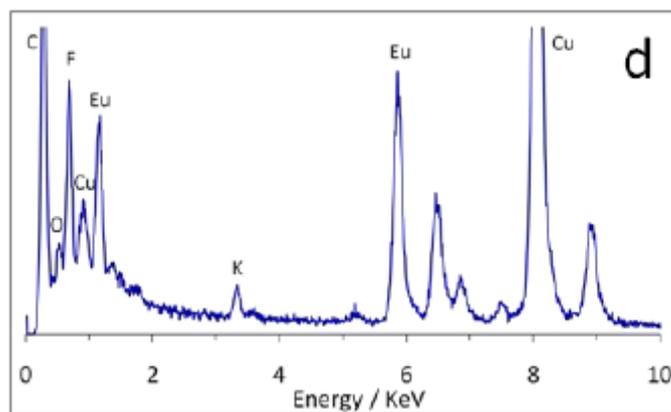


Figure S3 – Energy dispersive X-ray analysis of EuF_3 particles, copper and carbon peaks are due to the TEM grid.

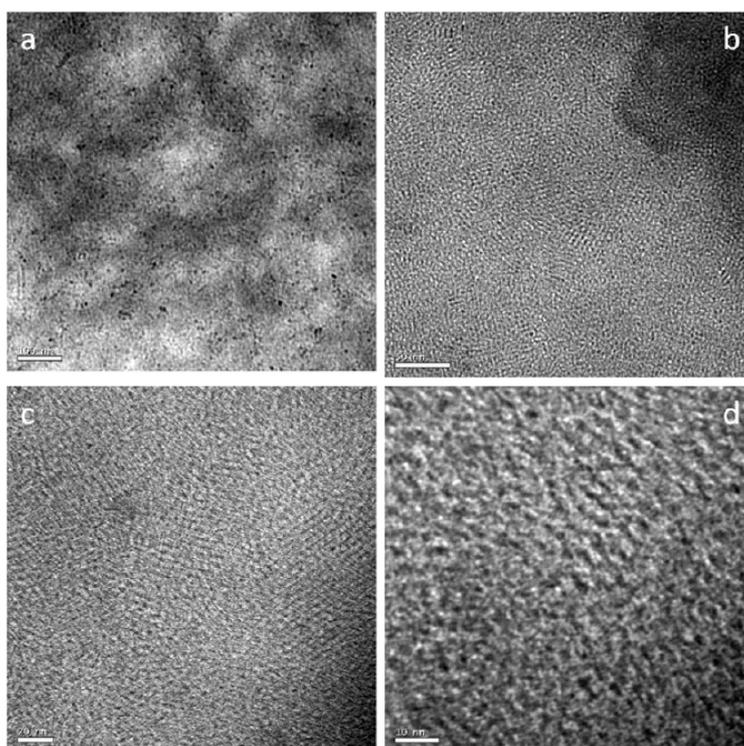


Figure S4 – EuF_3 particles prepared without KTFA.

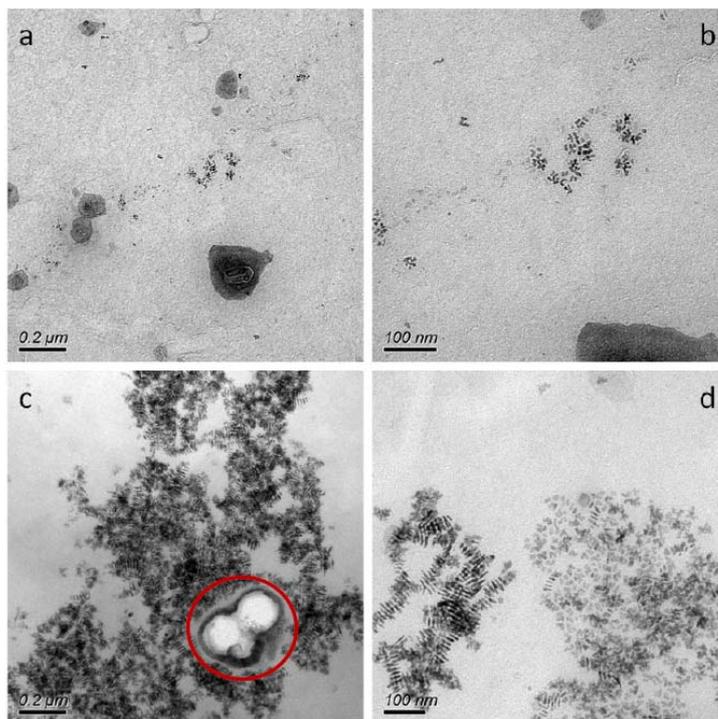


Figure S5 – growth of EuF_3 at different reaction times. a and b = 1 minutes, scale bars are 0.2 μm and 100 nm respectively. c = 30 minute sample, d= 60 minute sample. Scale bars are 0.2 μm and 100 nm respectively. Red circle shows electron beam damage.