Investigation of the nucleation and growth dynamics of FePt nanoparticles prepared via a high temperature synthesis route employing PtCl$_2$ as platinum precursor

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**Fig. S1** Fe$_{40}$Pt$_{50}$ particles (as determined by EDX) obtained with a molar ratio of 3:1 of Fe(acac)$_3$ over Pt(acac)$_2$. A lighter hull can be seen around the particles that we attribute to iron oxide, as the position of the (111) reflex of FePt (40.1 $^{\circ}$) correlates to $\sim$Fe$_{12}$Pt$_{8}$ and does not fit the high iron content.