One-Step Synthesis of Nearly Monodisperse, Variable-Shaped In$_2$O$_3$
Nanocrystals in Long Chain Alcohol Solutions

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Supporting Information
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**Figure SI 1.** TEM images of In$_2$O$_3$ nanocrystals resulted from the reaction of In(ac)$_3$ with oleyl alcohol in open air (flask closed at 265°C).

**Figure SI 2.** TEM images of In$_2$O$_3$ nanocrystals obtained from the reaction of In(O$i$Pr)$_3$ with oleyl alcohol under flowing air (turned off at 300°C): a) aliquot taken at 310°C; b) aliquot taken at 320°C/(t=0min); c) aliquot taken at 320°C/(t=30min).

**Figure SI 3.** Infrared spectra of the solutions obtained after removal of the solid products resulted from the reaction of In(ac)$_3$ (1), In(acac)$_3$ (2), and In(O$i$Pr)$_3$ (3) with oleyl alcohol under open air; curve 4 represents the IR spectra of oleyl alcohol (85%).

**Figure SI 4.** UV-vis absorption spectra of the In$_2$O$_3$ nanoparticles obtained from different precursors: a) In(acac)$_3$; b) In(ac)$_3$; c) In(O$i$Pr)$_3$
Figure SI 1
Figure SI 2
Figure SI 3
Figure SI 4