Supporting Information

Anisometric C$_{60}$ Fullerene Colloids Assisted by Structure-Directing Agent

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Fig. S1  Schematic growth of fullerene crystals in solvent mixtures in the presence of a structure-directing agent. Solutions of C$_{60}$ (white) in good solvent mixtures (grey) are dispersed in antisolvent (blue). Droplet shrinkage due to solvent interdiffusion induces nucleation. The structure-directing agent (green) shortens the nucleation period and associates with the interface, slowing growth.
Fig. S2  IR absorption spectra of solvated microcrystals. (a) C₆₀/tetralin/TMP, inset the same composition (black) compared with C₆₀/mesitylene/TMP (dashed). The inset highlights characteristic features of the incorporated aromatic solvents. (b) O–H stretch bands for C₆₀/tetralin/TMP (solid), C₆₀/mesitylene/TMP (dashed) and C₆₀/mesitylene (dotted).
Fig. S3  Optical absorption spectra of solutions before addition of alcohol. $C_{60}$ in pure mesitylene (black), and $C_{60}$ in mesitylene with 20% v/v TMP (grey). Spectra were measured within 20 minutes of TMP addition.
Fig. S4 Confocal microscope image of the C$_{60}$/mesitylene/TMP solvates shown in Figure 1b. $\lambda_{ex} = 488$ nm