SUPPORTING INFORMATION:

S1. Low and high magnification SEM images respectively of BaSO₄ crystals grown at a static liquid-liquid interface in the presence of stearic acid molecules at an Sₚ of 30 (see text for details).
BaSO$_4$ Crystals Grown at an Expanding Liquid-Liquid Interface in a Radial Hele-Shaw Cell Show Spontaneous Large-scale Assembly into Filaments

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BaSO$_4$ crystals grown at a steadily expanding liquid-liquid interface populated by fatty acid molecules spontaneously organize themselves into very long highly linear superstructures over large length-scales (image to the right). This experiment is realized in a radial Hele-Shaw cell where the liquid-liquid interfacial growth rate and consequently time scales such as arrival of surfactant molecules to the interface etc. may be readily modulated.