

Table S1. Lattice Parameters from Convective Assembly of Spherocylinders.

Structure	Lattice Vector* ( $\mu\text{m}$ )	Interaxial Angle ( $^\circ$ )
Crystal (in-plane)	$a_1 = 1.27 (0.03)$ , $a_2 = 1.47 (0.07)$	62.2 (2.9)
Rotator	$a_1 = 1.35 (0.07)$ , $a_2 = 1.39 (0.07)$	60.7 (3.1)
Crystal (out-of-plane)	$a_1 = a_2 = 1.25 (0.04)$	60.0 (2.2)

\*standard deviation in parentheses

