



JOURNAL OF
APPLIED
CRYSTALLOGRAPHY

Volume 53 (2020)

Supporting information for article:

Hierarchical Structure of the Triclinic α -phase Crystal in Nylon 6,12 Mediated by Two-dimensional Confinement

Ziwei Lai, Shuailin Zhang, Nan Zheng, Shichen Yu, Masaki Ageishi, Hiroshi Jinnai and Yan Cao

Supporting Information

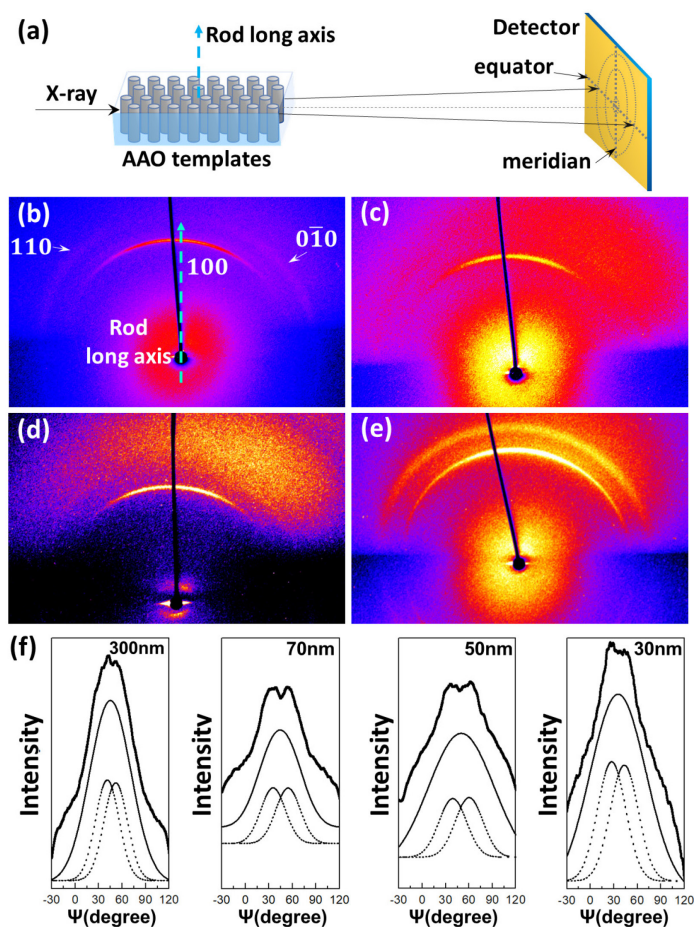


Figure S1 (a) Schematic illustration for the 2D WAXD (Rigaku Rapid II, with the X-ray wavelength of 0.154 nm under Cu $K\alpha$ radiation) test geometry. 2D WAXD patterns of nylon 6 rods with size of (b) 300, (c) 70, (d) 50 and (e) 30 nm under a characterizing geometry in (a). Azimuthal profiles for the nanorod samples isothermally crystallized at $T_c=160^\circ\text{C}$ for 24 hrs. (f) Azimuthal profiles (f), (g), (h) and (i) of the 100 reflections of the X-ray patterns in the (b), (c), (d) and (e), respectively. The best fits of the 100 reflections in (b), (c), (d), (e) are denoted as solid lines, respectively. Each 100 reflection in Figure in (f) could be deconvoluted into two Gaussian functions (dotted line).