Supplementary Materials

A Rapid Quantitative Analysis of Bicomponent Fibers Based on Cross-Sectional In-Situ Observation

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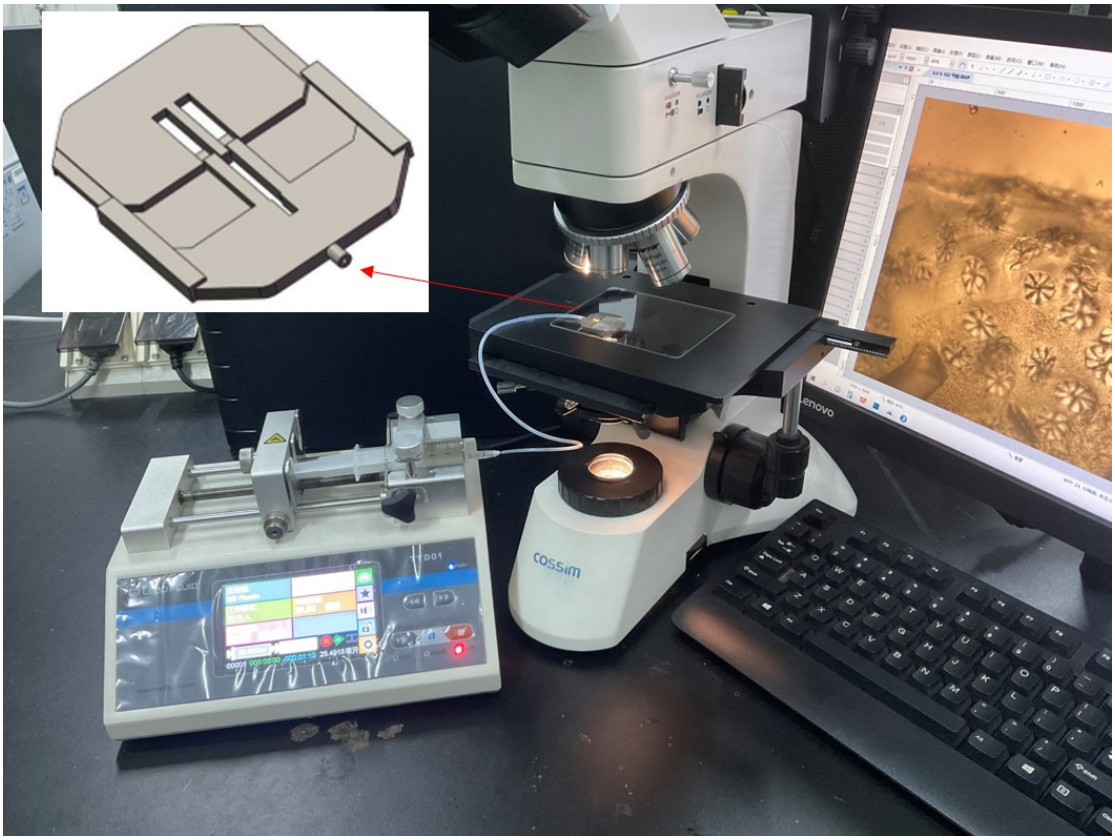

Figure S1. In-situ dissolving equipment and the new slicer.

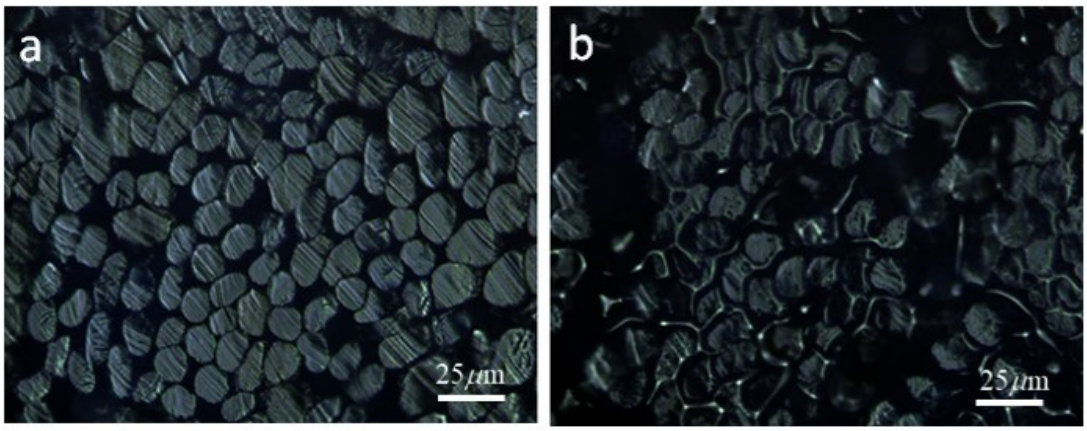

Figure S2. In-situ dissolving of wool/ acrylic fibers(**a**) Before adding basic sodium hypochlorite solvent, (**b**) After adding basic sodium hypochlorite solvent to dissolve the wool fibers.

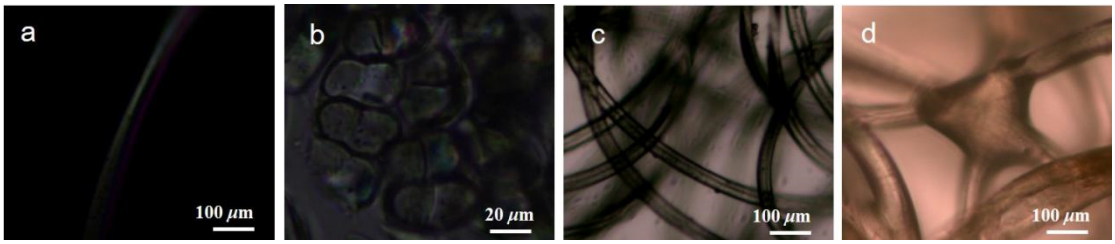

Figure S3. the Melting process of side-by-side bicomponent fibers (PET/PTT) with longitudinal direction(**a**) the polarization performance of PET/PTT bicomponent fibers with longitudinal direction, (**b**) the cross-section of PET/PTT bicomponent fibers, (**c**)Before heated to melt, (**d**) PET/PTT bicomponent fibers with longitudinal direction were heated to melt.

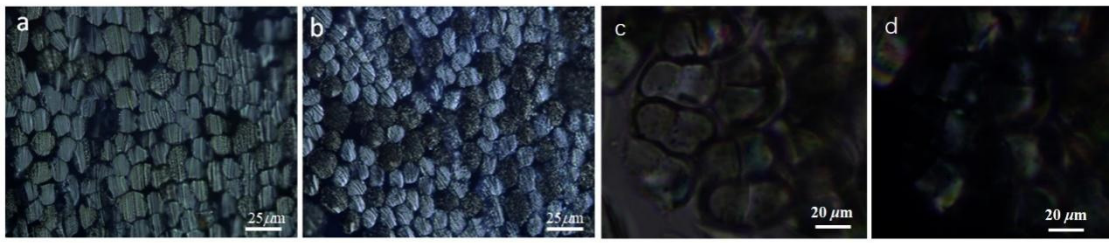

Figure S4. the polarization performance of wool/ acrylic blended fibers and side-by-side PET/PTT bicomponent fibers (**a**) wool/ acrylic blended fibers before polarizing experiment, (**b**) wool/ acrylic blended fibers after polarizing experiment, (**c**) the cross-section of PET/PTT bicomponent fibers before polarizing experiment, (**d**) the cross-section of PET/PTT bicomponent fibers after polarizing experiment.

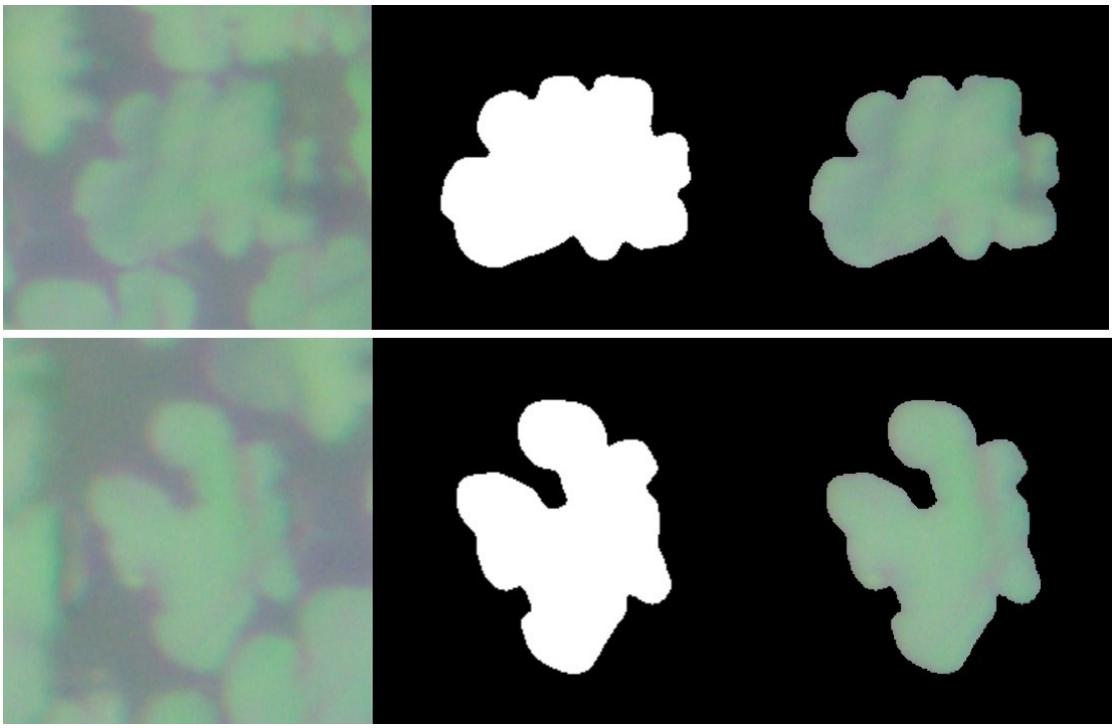

Figure S5. Labeled images of viscose fibers for establishment of their identification model.