

Fig. 1 ESI. Raman spectra of untreated and 6 M LiBr treated silk fiber, a single fiber was aligned either parallel (solid line) or vertical (dashed line) to the direction of polarization of the laser beam, the band at about 1450 cm⁻¹ associated with the CH₂ bending modes was used as an intensity standard. The intensity ratio of the parallel to vertical direction of Raman band 1230 cm⁻¹(amide III) (I_{1230p}/I_{1230v}) and of the vertical to parallel direction of Raman band 1665 cm⁻¹(amide I) (I_{1665p}/I_{1665v}) in treated silks are both lower than that in untreated silks.