

Statement of contribution and copyright permission

Manuscript title: *Mapping nanostructural variations in silk by secondary electron hyperspectral imaging*

Publication status: published on 2017 *Advanced materials*, 1703510

Authors: Q Wan, K J Abrams, R C Masters, A C S Talari, I U Rehman, F Claeysens, C Holland, C Rodenburg

Author contribution:

Q Wan has written the first draft of manuscripts, did the cryo-snap of silk fibers, measured the SE spectra and did the imaging of silk materials, as well as the analysis of these data. Q Wan also worked on the supporting BSE imaging and simulation/calculation related to it.

K J Abrams measured the SE spectra of polypropylene (PP) materials and did the imaging of PP material systems.

R C Master did the calibration of the SEM system applied in this paper.

A C S Talari did the Raman microscopy work on the PP materials.

I U Rehman supervised A C S Talari.

C Holland provided the original silk fibers and guided the analysis of silk material.

C Rodenburg and F Claeysens supervised Q Wan, C Rodenburg and C Holland also worked on the final writing and figures in this manuscript.

Contribution detail of data/figure/sections is labeled accordingly in manuscript included in thesis.

Copyright permission:

Licence type: CC-BY 4.0

Copy and redistribute the material in any medium or format, remix, transform, and build upon the material for any purpose are permitted.

Title and authors listed above.

Funding body: EPSRC EP/N008065/1 and EP/K005693/1

Original DOI: 10.1002/adma.201703510

Change to original: No additional changes were made to original manuscript.

Public Licence URL: <https://creativecommons.org/licenses/by/4.0/>

Author signature:

Signature: *Quan Wan* Date: 6/12/2017

Signature: *C. Rodkey* Date: 06/12/17

Signature: *A. H. H. H.* Date: 06/12/2017