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Manuscript title: *Separating topographical and chemical analysis of nano-structure of polymer composite in low voltage*

SEM

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Author contribution:

Q Wan has written the first draft of manuscripts, and worked on including the calculation of simulation inputs and the simulations based on Monte Carlo computing program. Q Wan did the parameter calculation and imaging on the SEM, AFM and the data analysis of experimental data.

R A Plenderleith synthesized the PNIPAM composite sample used in the experiments.

M Dapor provided the Monte Carlo simulation program.

S Rimmer and F Claeysens supervised R A Plenderleith.

C Rodenburg and F Claeysens supervised Q Wan.

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

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