polymers

MDPI

Supplementary Material: Preparing Hydrophobic Cellulose Nanofibers-SiO_2 Films and Coating by One-Step Mechanochemical Method

Xi Chen, Lijiaqi Zhang, Min Wu, and Yong Huang

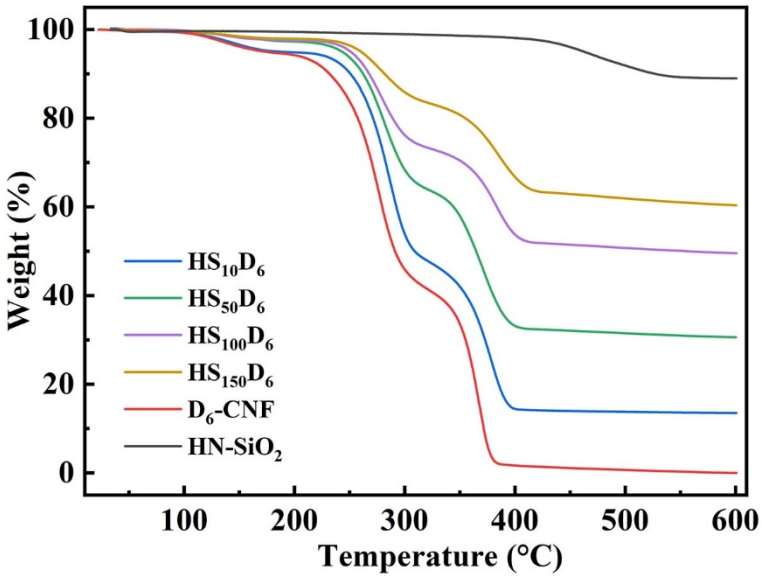


Figure S1. TGA of D_6-CNF, HN-SiO_2, and HS_nD_6.

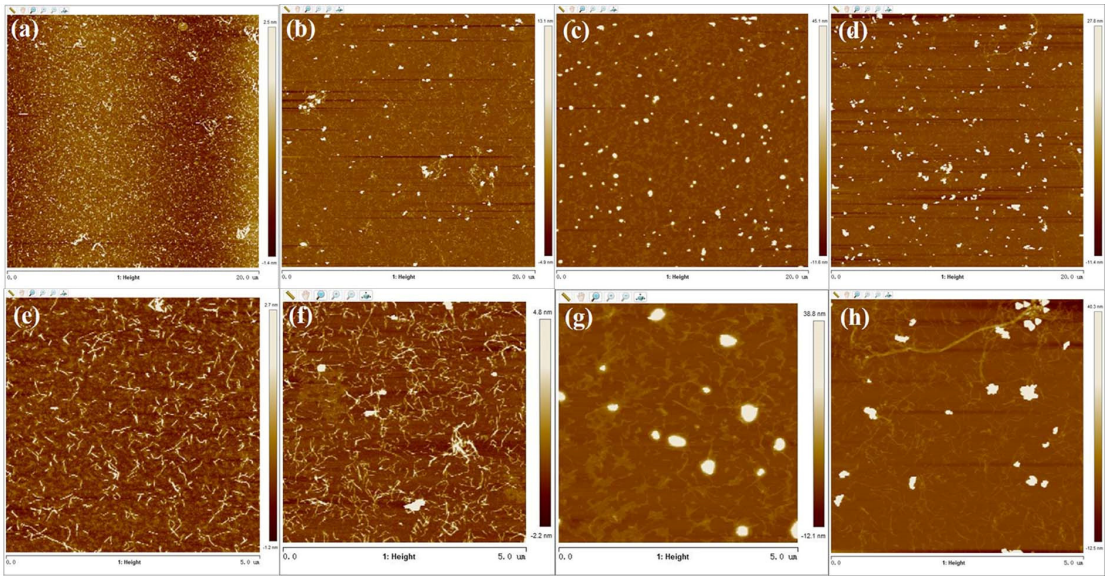


Figure S2. The AFM images of morphology of (a) D_6-CNF and HN-SiO_2 in (b) $HS_{50}D_6$, (c) $HS_{100}D_6$, (d) $HS_{150}D_6$. The AFM images of CNF in (e) D_6-CNF, (f) $HS_{50}D_6$, (g) $HS_{100}D_6$, (h) $HS_{150}D_6$.

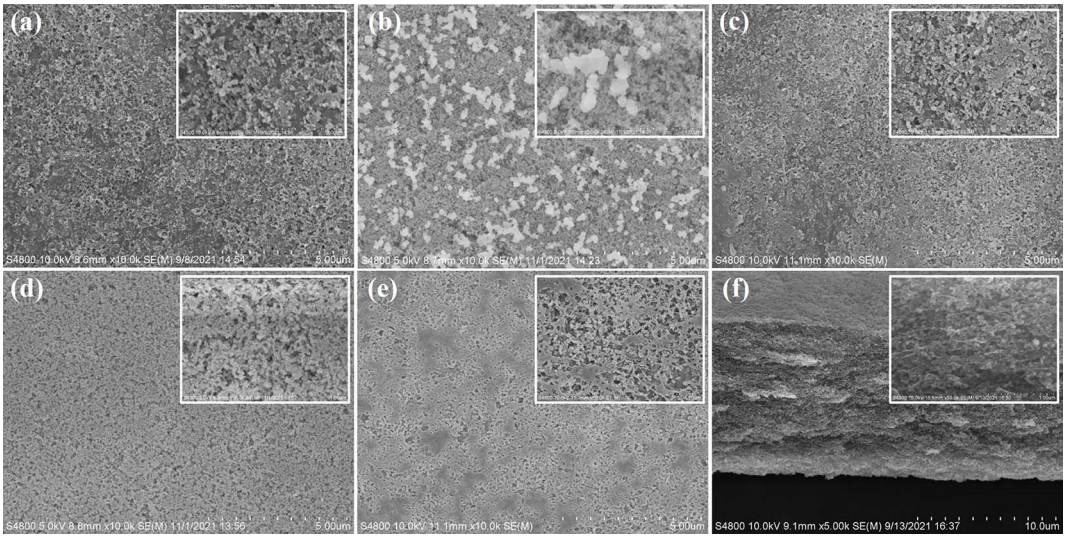


Figure S3. SEM images of (a) D_6+HS_{150} films before and (b) after combustion. (c) $HS_{150}D_6$ films before and (d) after combustion. (e) bottom-section and (f) cross-section of $HS_{150}D_6$ films.

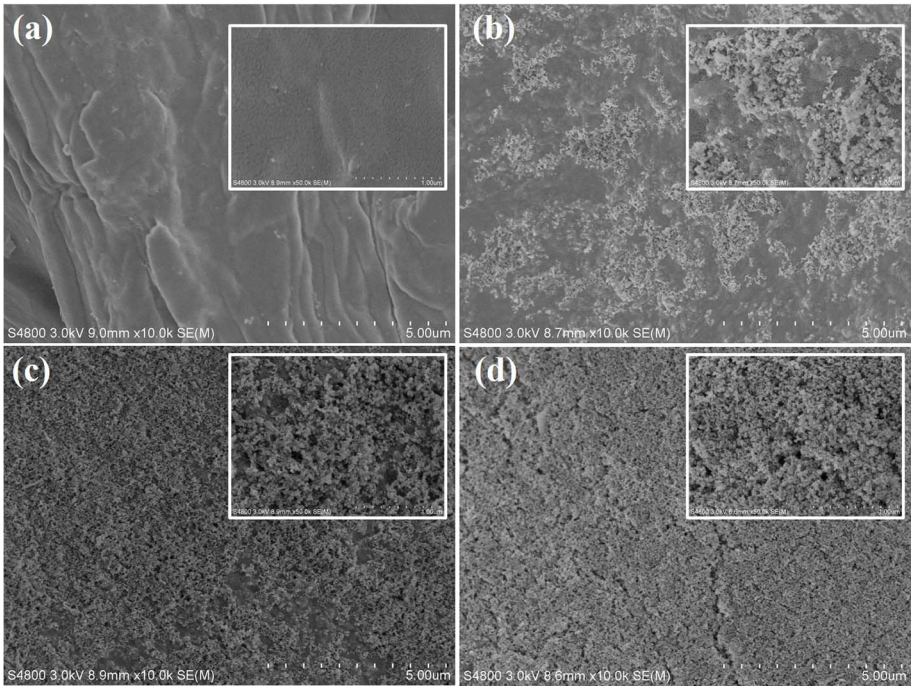


Figure S4. The SEM images of (a) D_6-CNF, (b) $HS_{50}D_6$, (c) $HS_{100}D_6$, (d) $HS_{150}D_6$ coated paper.