Supporting Information

Green and Efficient Cell Wall Nano-reconstruction under Ambient Temperature towards Strong Cellulosic Aerogels

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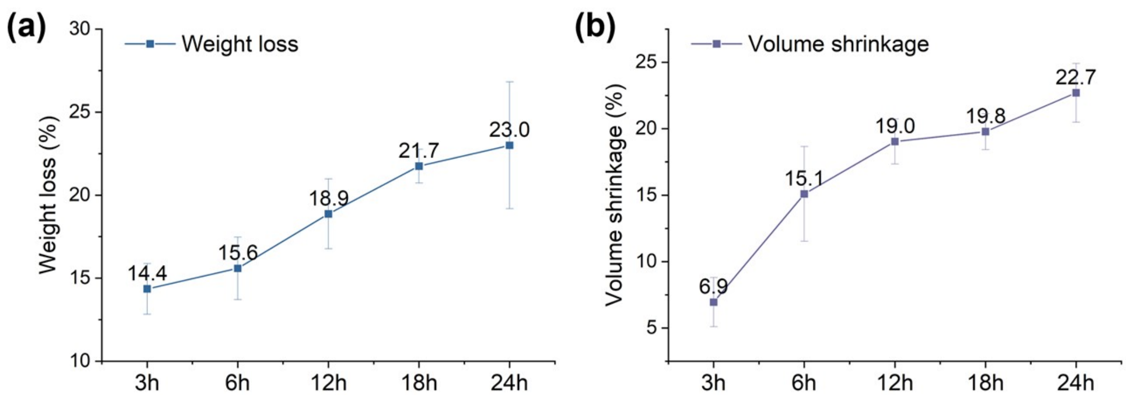

Figure S1. (a) Weight loss, (b) volume shrinkage of NWA samples as treatment time increased.

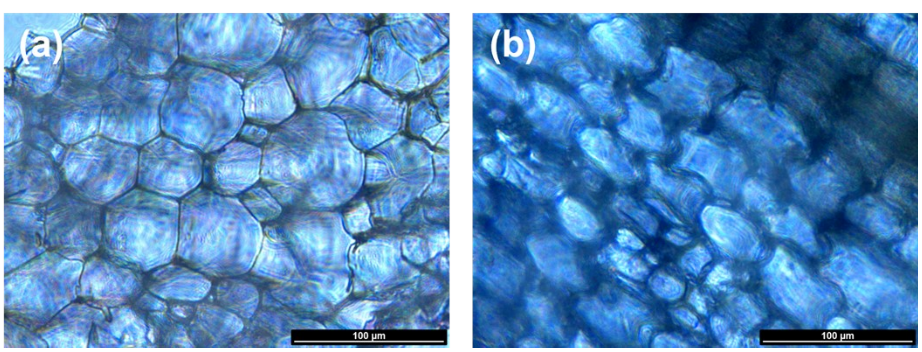

Figure S2. Optical microscope images of (a) NW, (b) never-dried wood aerogel.

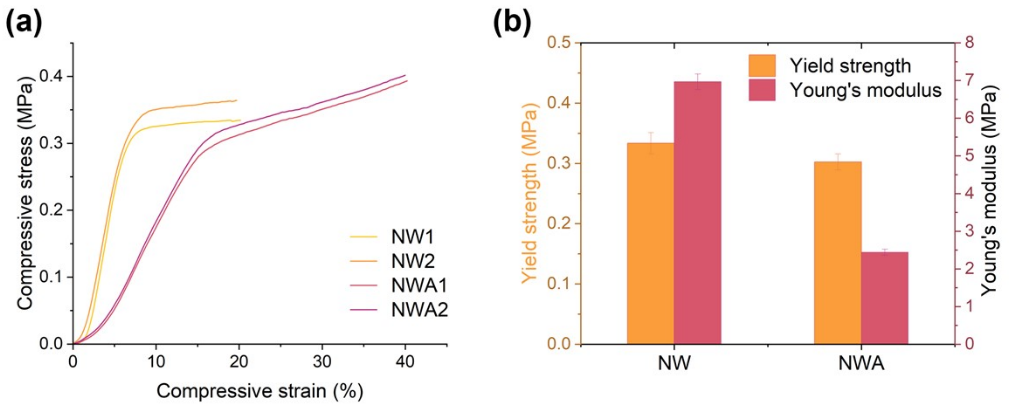

Figure S3. (a) Transversal strain-stress curves, (b) compressive strength and Young´s modulus of NW and NWA

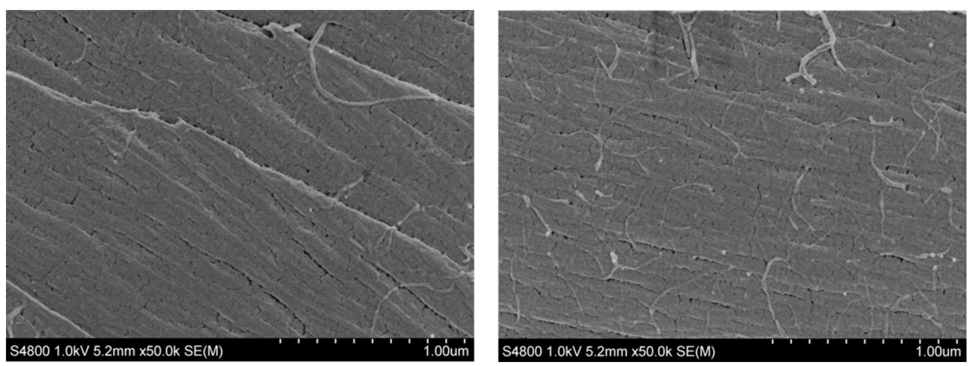

Figure S4. SEM images of microfibril alignment on NW cell wall.

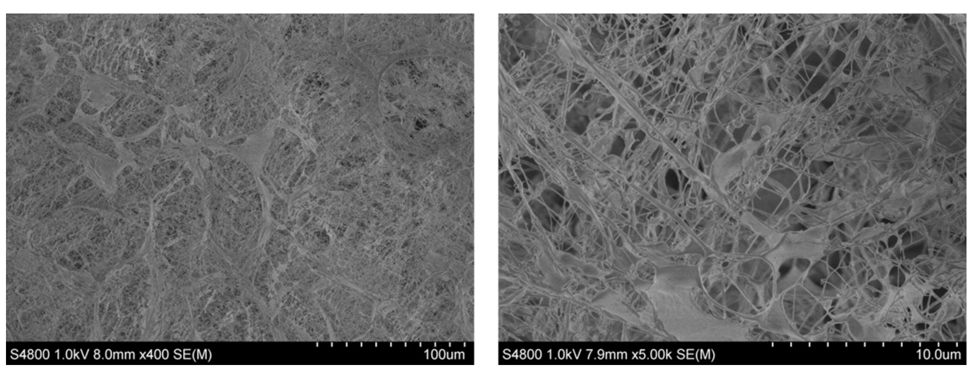

Figure S5. SEM images of separated network materials *via* directional freezing.

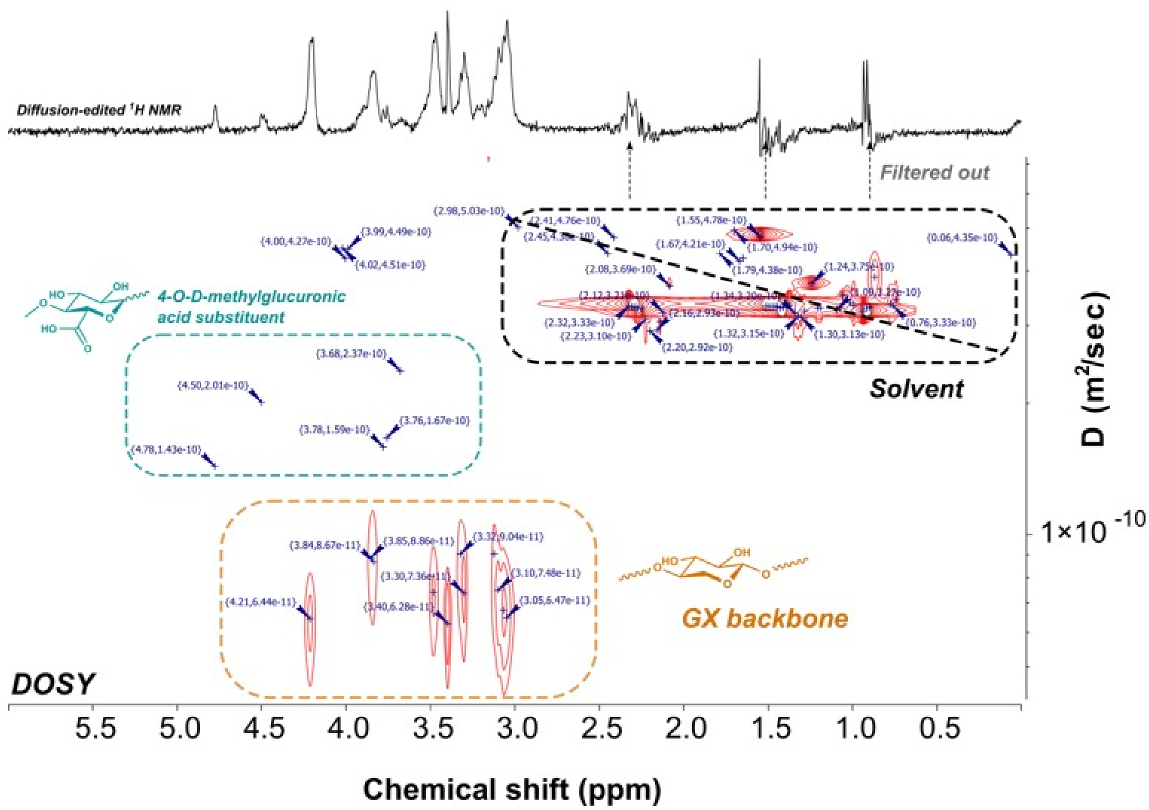

Figure S6. 1D diffusion-ordered spectroscopy (DOSY) of NWA networks.

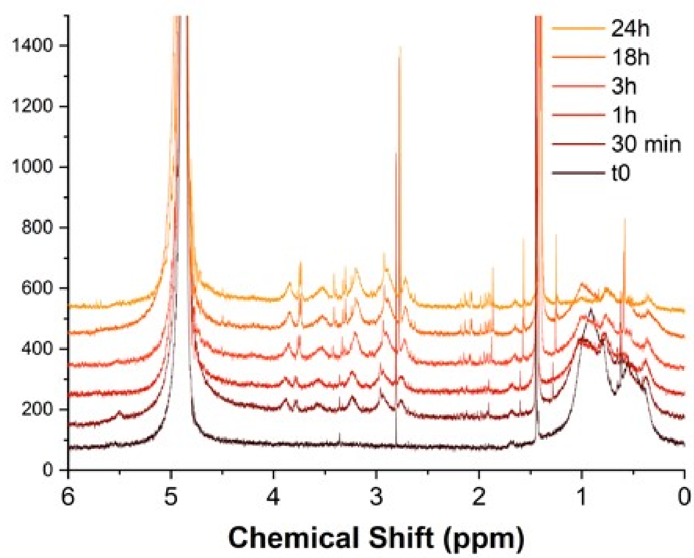

Figure S7. Diffusion-edited ^{1}H NMR of solute fraction generated during the network formation using 10 wt% NaOD in D_2O.