Electronic Supplementary Material (ESI) for RSC Advances.

Electronic Supporting Information:

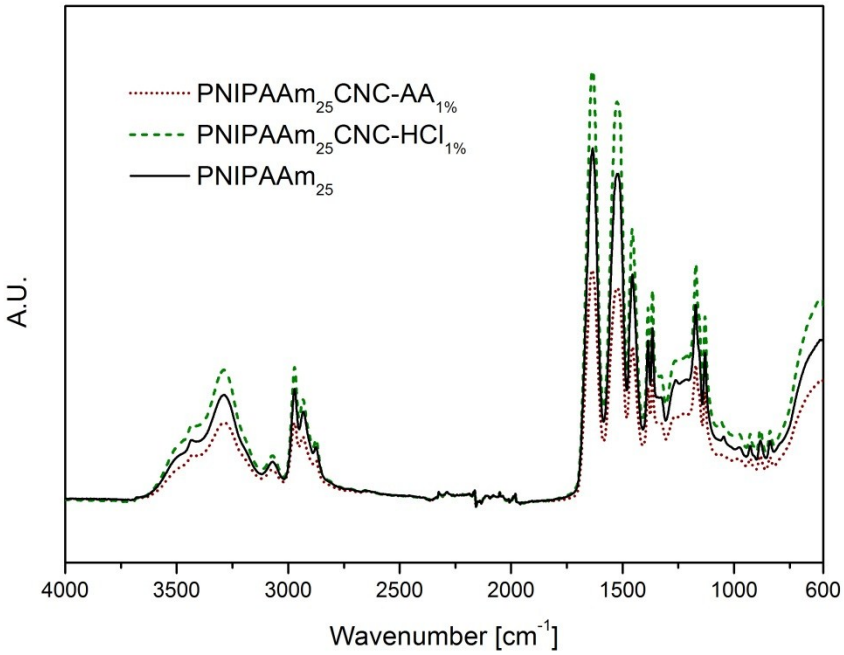
Thermoresponsive cryogels reinforced with cellulose nanocrystals

*Emma Larsson, Assya Boujemaoui, Eva Malmström and Anna Carlmark**

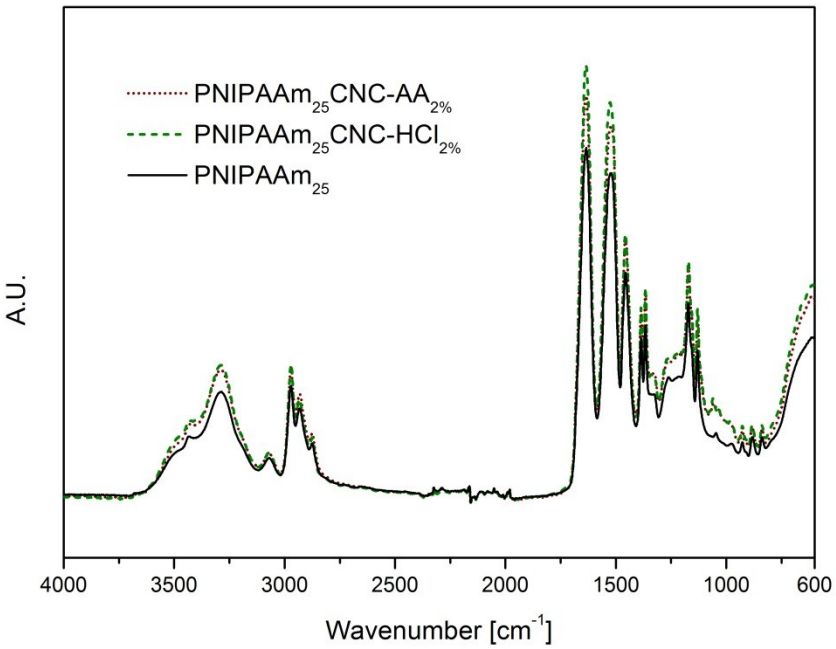
KTH Royal Institute of Technology, School of Chemical Science and Engineering,

Fibre and Polymer Technology, Teknikringen 56, SE-100 44, Stockholm, Sweden

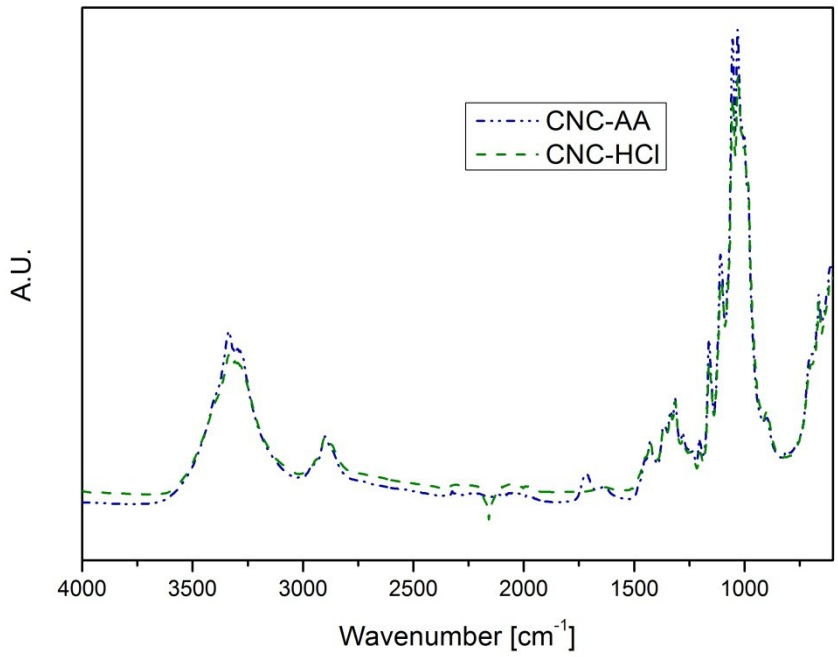
*Corresponding authors: annac@kth.se



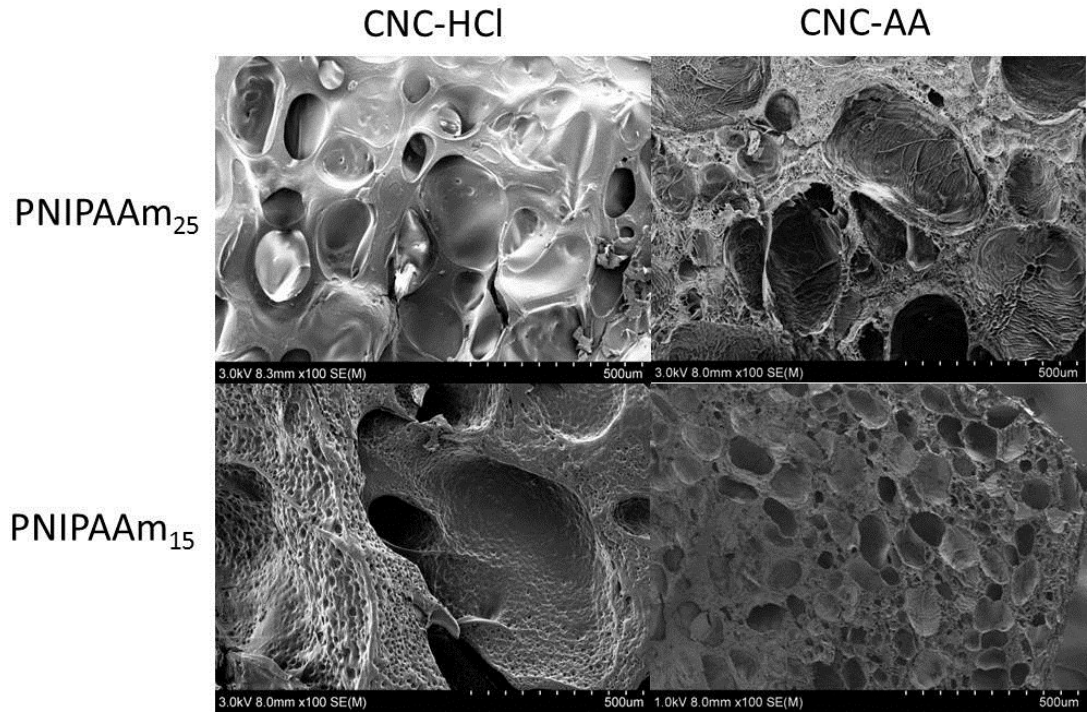
ESI Figure 1. FT-IR specta of cryogels containing 1 wt% of CNC.



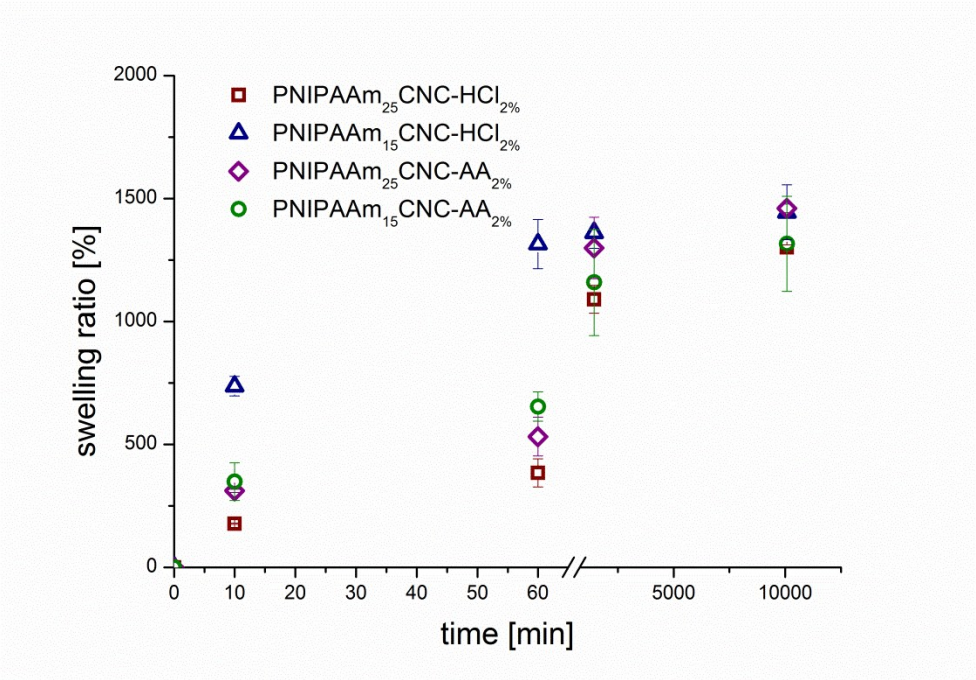
ESI Figure 2. FT-IR spectra of cryogels containing 2 wt% of CNC.



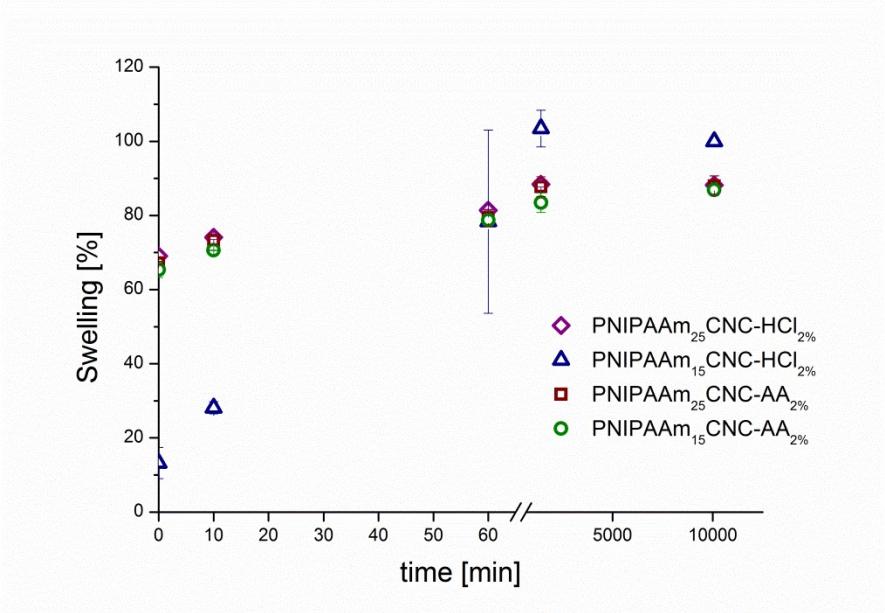
ESI Figure 3. FT-IR spectra of CNC-HCl and CNC-AA.



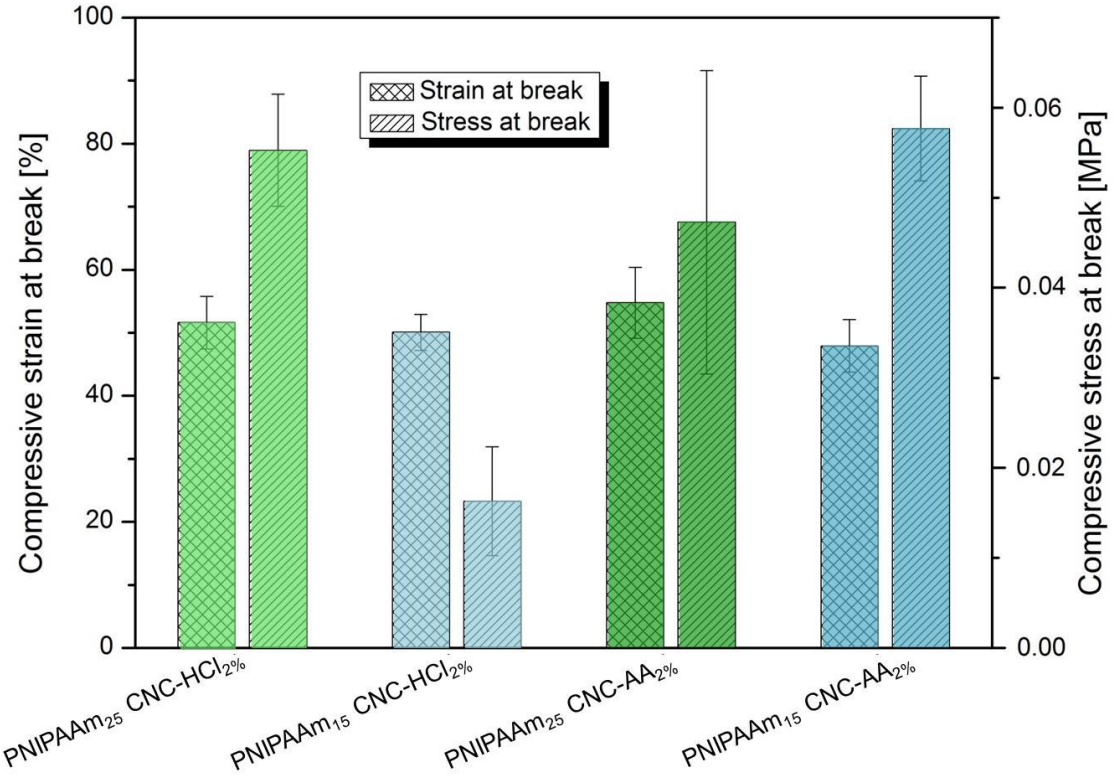
ESI Figure 4. FE-SEM of PNIPAAm cryogels containing 2 wt% of CNC at ×100 magnification.



ESI Figure 5. Swelling ratio of freeze dried cryogels containing 2 wt% of CNC.



ESI Figure 6. Mass percentage of original mass for cryogels containing 2 wt% of CNC below the LCST of PNIPAAm



ESI Figure 7. Compressive strain and compressive stress at break for the synthesized cryogels containing 2 % of CNC.