

## SUPPORTING INFORMATION

# Preparation of photoreactive nanocellulosic material via benzophenone grafting

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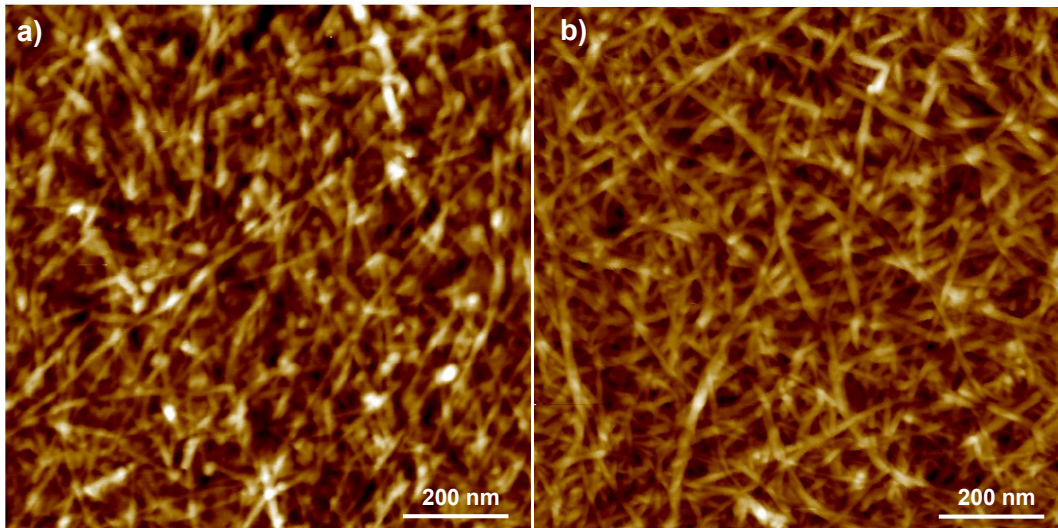


Figure S1. AFM height images of a) unmodified TOCNF and b) BP-TOCNF surfaces.

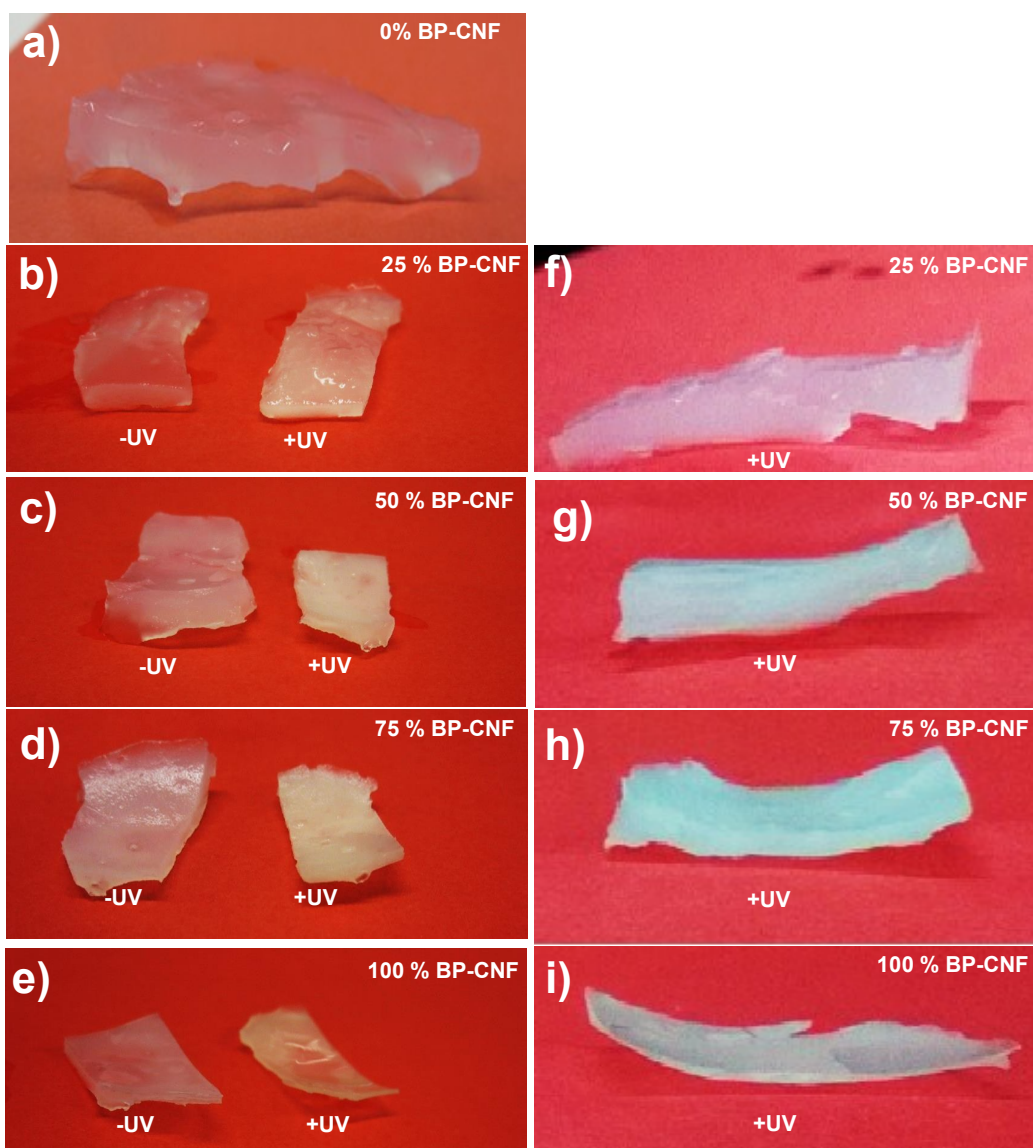


Figure S2. Wet TOCNF/BP-TOCNF mixed films with and without UV-activation a-e). The portion of BP-TOCNF added varied from 0 to 100%. All samples were kept overnight in water and picture when still wet. Side views of TOCNF/BP-TOCNF mixed films with UV-activation f-i).

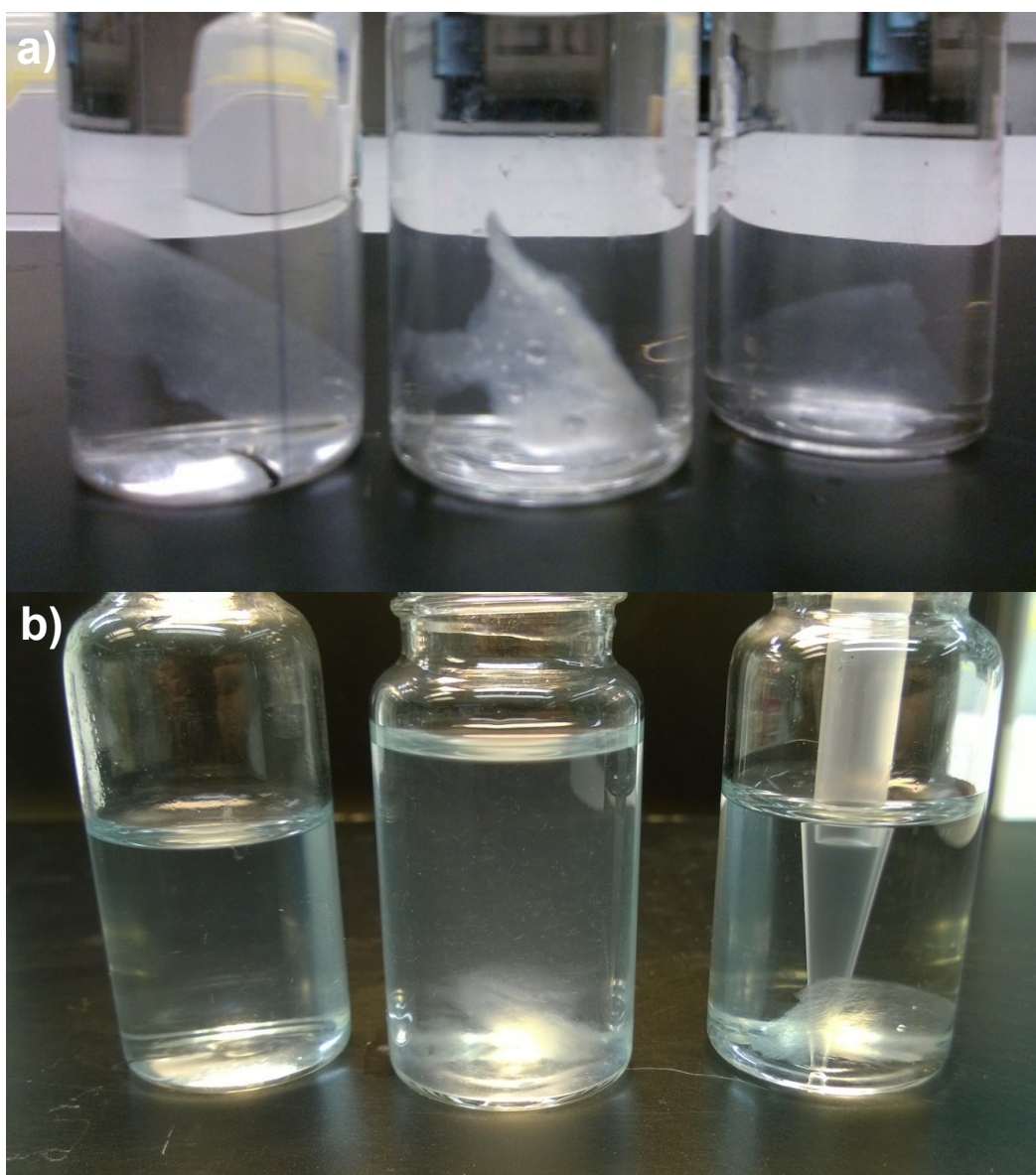


Figure S3. Photo images of TOCNF, BP-TOCNF without UV-activation, and BP-TOCNF after UV-activation before a) and after b) high energy sonication. Image b), right, shows a jet of a pipet that was utilize to lift the BP-TOCNF film in order to capture more clearly the image.