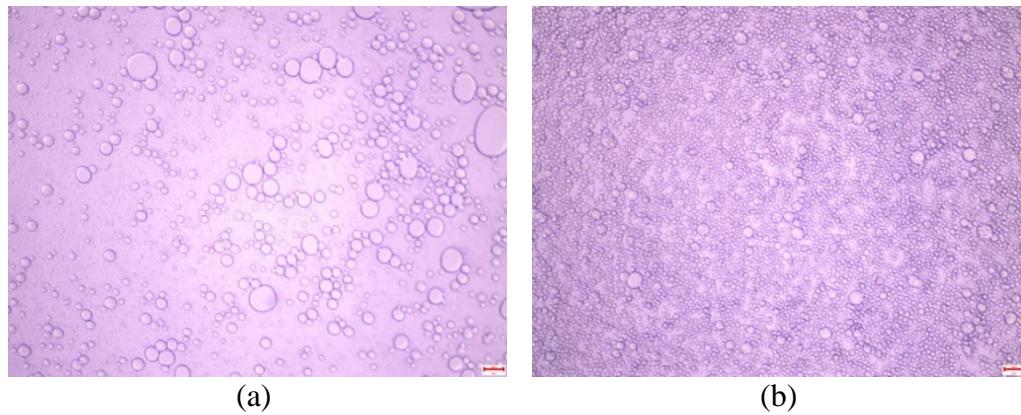
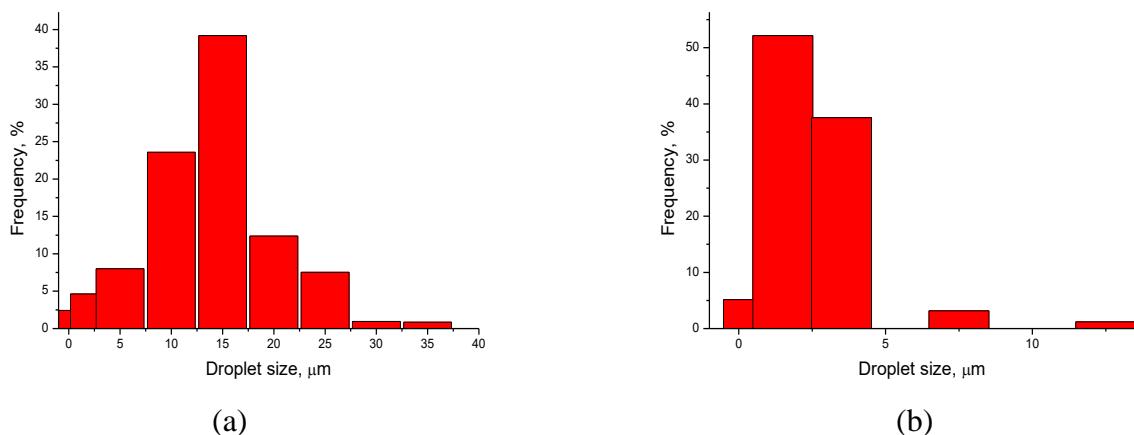


**An approach to enhanced redispersibility of cellulose nanocrystals  
via freeze-drying their Pickering emulsions**

**Oleg V. Surov and Marina I. Voronova**



**Figure S1** POM images of the CNC-stabilized cyclohexane-in-water Pickering emulsion (a) and the CNC-stabilized cyclohexane-in-water Pickering emulsion with a 0.02 M KCl additive (b).



**Figure S2** Histograms of droplet size distribution for the CNC-stabilized cyclohexane-in-water Pickering emulsion (a) and the CNC-stabilized cyclohexane-in-water Pickering emulsion with a 0.02 M KCl additive (b).

**Table S1.** Specific surface area values of the CNC-based porous materials prepared by different methods

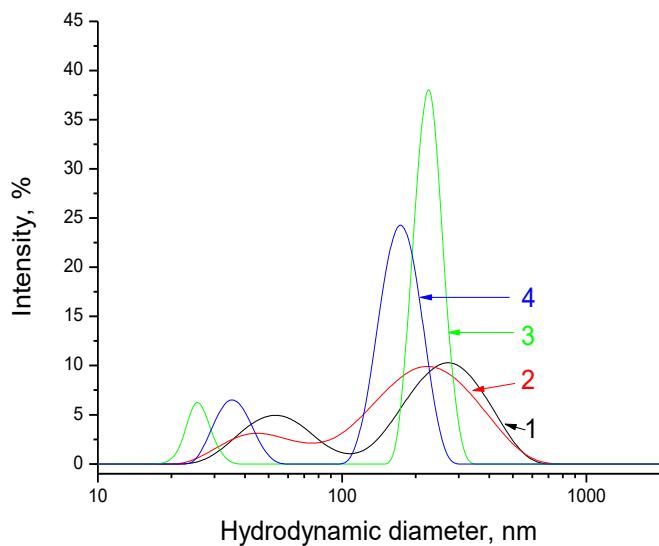
Method of preparation*	1	2	3	4
BET specific surface area, $\text{m}^2\text{g}^{-1}$	40	120	90	280

\*1 is freeze-drying of the CNC aqueous suspension;

2 is drying of the CNC ethanol organogel in supercritical  $\text{CO}_2$ ;

3 is freeze-drying of the CNC-stabilized cyclohexane /water Pickering emulsion;

4 is freeze-drying of the CNC-stabilized cyclohexane /water Pickering emulsion with a 0.02 M KCl additive.



**Figure S3** Particle size distribution in water for: 1 – a never-dried CNC aqueous suspension; 2 – the redispersed cryogel obtained by conventional freeze-drying of the CNC aqueous suspension; 3 – the redispersed cryogel obtained by freeze-drying of the CNC-stabilized cyclohexane/water Pickering emulsion; 4 – the redispersed cryogel obtained by freeze-drying of the CNC-stabilized cyclohexane/water Pickering emulsion with a 0.02 M KCl additive. The suspension concentration is  $0.2 \text{ gL}^{-1}$ .