

Supporting information

One-Pot Method of Synthesizing TEMPO-Oxidized Bacterial Cellulose Nanofibers Using Immobilized TEMPO for Skincare Applications

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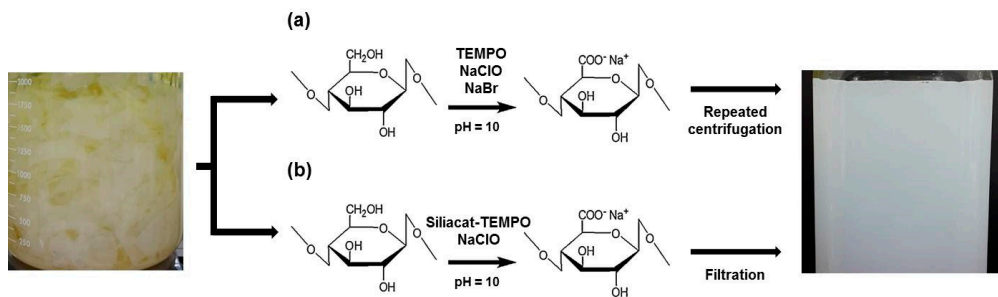


Figure S1. Schematic showing the synthesis of TOCNs via the (a) conventional process and (b) the one-pot process.

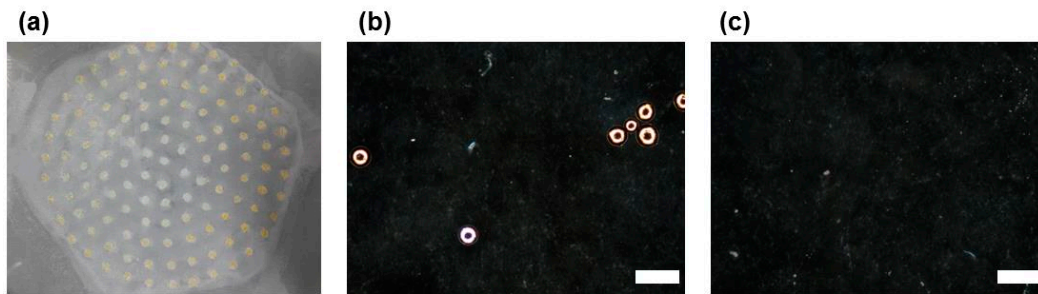


Figure S2. (a) Filtrated TEMPO-immobilized silica beads on the nylon mesh after the oxidation reaction, and the immobilized TEMPO, sodium hypochlorite, and BC solution (b) before and (c) after filtration. Scale bar = 300 μm .

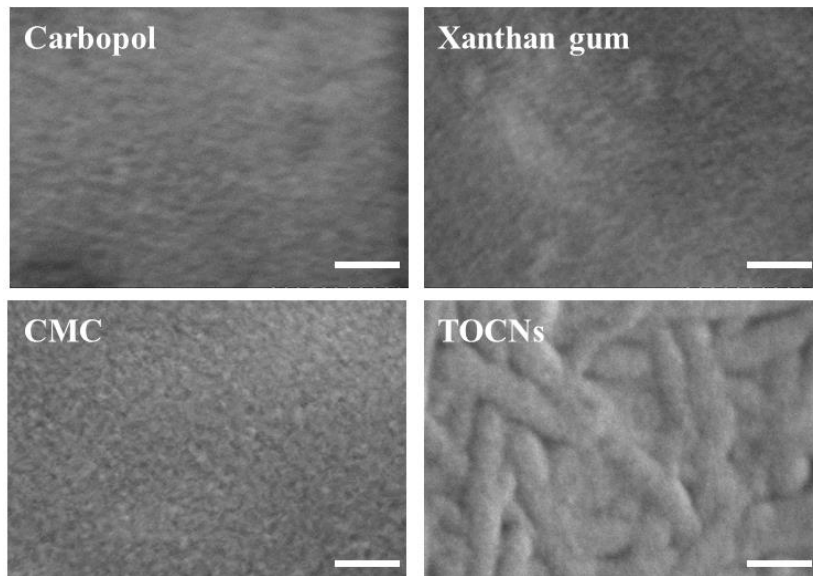


Figure S3. Nanometer-resolution structures of the TOCNs and other bio-polymers obtained via high-resolution imaging using a FE-SEM. Scale bar = 100 nm.