

SUPPORTING INFORMATION

Temperature-responsive nanofibers for controllable oil/water separation

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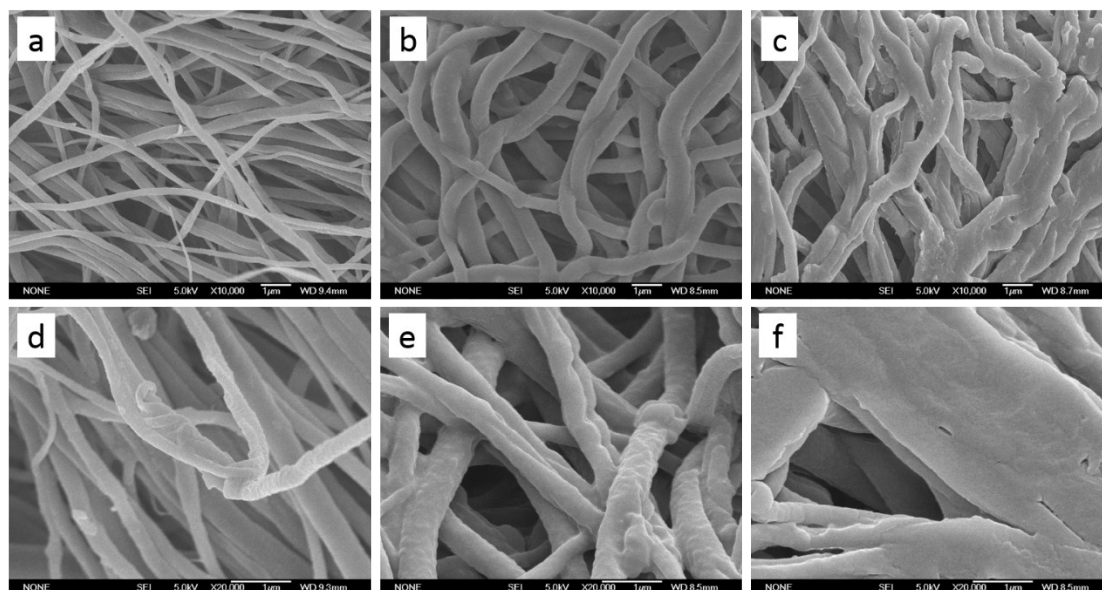


Fig. S1 SEM images of PNIPAAm-modified nanofibers with different grafting duration: 2 h (a,d), 6 h (b,e), 10 h (c,f); a-c are SEM images with lower magnification (x10,000) and d-f are SEM images with higher magnification (x20,000).

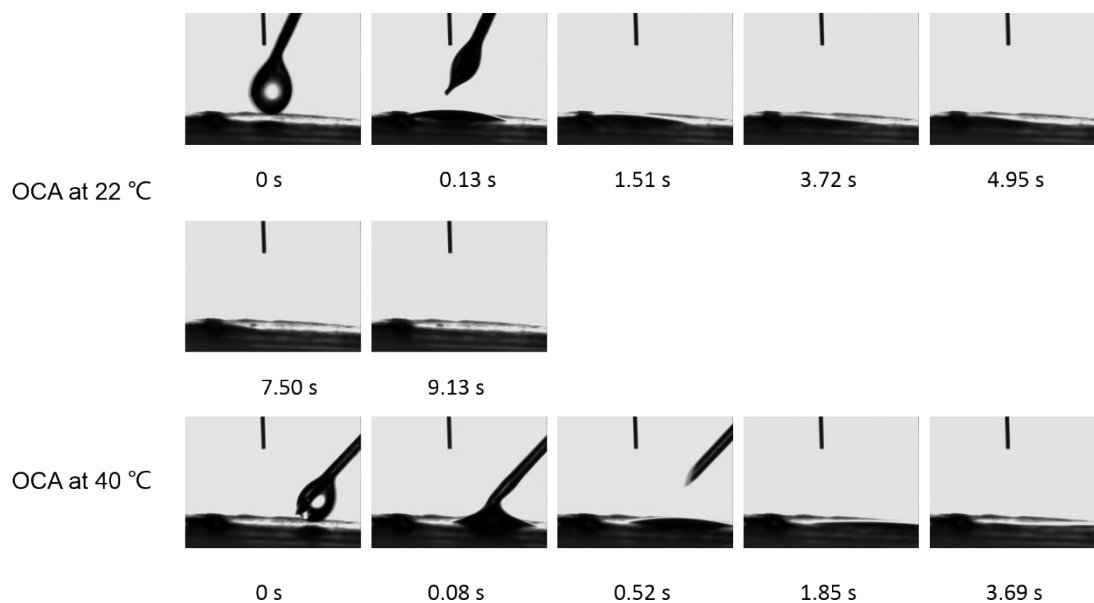


Fig. S2 Pictures recording the time needed by oil droplets to become 0° on PNIPAAm-RC nanofibrous membrane at 22°C and 40°C .

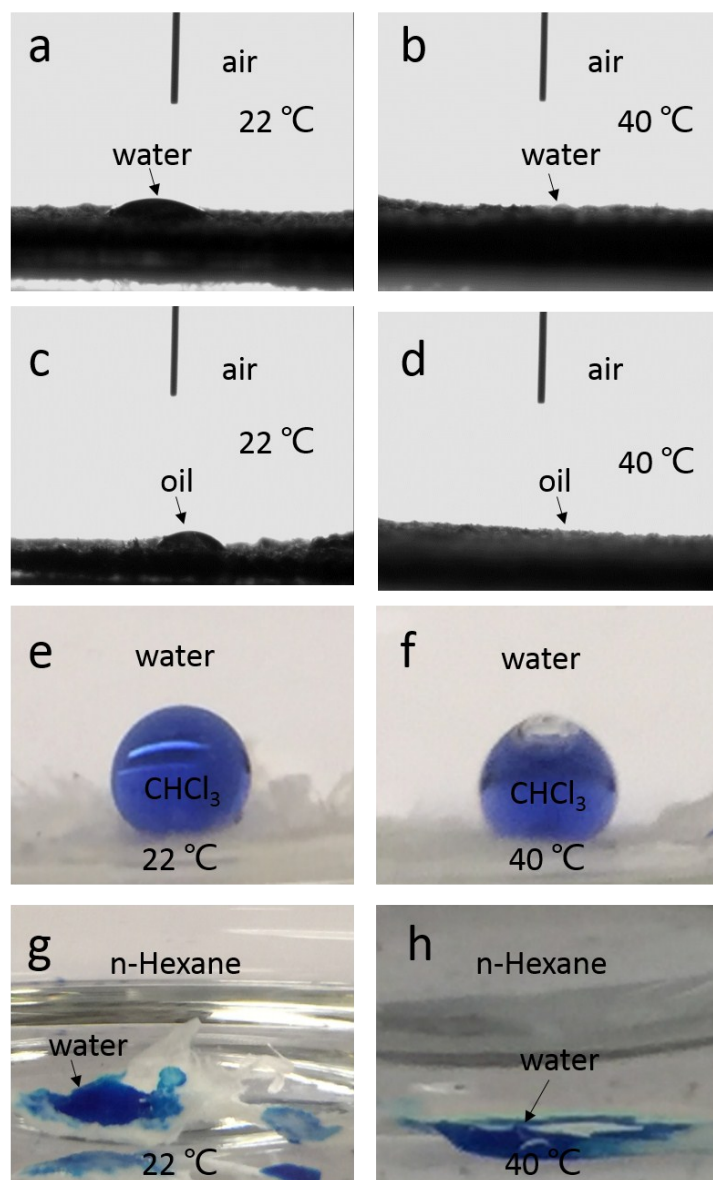


Fig. S3 In-air water wettability of unmodified RC nanofibrous membrane at 22 °C (a) and 40 °C (b); In-air oil wettability of unmodified RC nanofibrous membrane at 22 °C (c) and 40 °C (d); Oil and water wettability of the unmodified RC nanofibrous membrane at the oil-water-solid interface: under-water oleophobic at both 22 °C (e) and 40 °C (f); under-oil hydrophilic at both 22 °C (g) and 40 °C (h).