Supporting Information

Nanofiltration Filter Paper Based on Ultralong Hydroxyapatite Nanowires and Cellulose Fibers/Nanofibers

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Figure S1. Mechanical properties of the CNF/HAPNW filter paper and CF/HAPNW filter paper with different cellulose weight ratios: (a) stress−strain curves of the CNF/HAPNW filter paper; (b) stress−strain curves of the CF/HAPNW filter paper.
Figure S2. Thickness and pure water flux of the CNF-CF/HAPNW nanofiltration filter paper with different CNF contents.
Figure S3. Dye filtration performance of the CNF-CNF/HAPNW nanofiltration filter paper: (a) pure water flux versus working pressure; (b) water flux and rejection rate versus time; (c) schematic diagram of the CNF-CNF/HAPNW nanofiltration filter paper (left), and digital images of the CNF-CNF/HAPNW nanofiltration filter paper after filtration, original and filtrate solutions, molecular weights and rejection rates of dyes; (d) adsorption and filtration performance of RhB aqueous solution (500 ppm) by the CNF-CNF/HAPNW nanofiltration filter paper; (e) adsorption and filtration performance of RhB and MB mixed aqueous solution (500 ppm each) by the CNF-CNF/HAPNW nanofiltration filter paper. The weight ratio of CNFs in the CNF/HAPNW porous substrate is 20 wt.%.
Figure S4. Adsorption quantities of the CNF-CF/HAPNW nanofiltration paper with 20 wt.% CFs in the CF/HAPNW porous substrate for methyl blue (MB), Congo red (CR), orange G (OG), methyl orange (MO), and rhodamine B (Rh B).
Figure S5. Water fluxes and rejection rates of methyl blue at a concentration of 100 ppm during a time period of 4 h using the CNF-CF/HAPNW nanofiltration paper with 20 wt.% CFs in the CF/HAPNW porous substrate. The working pressure is 4 bar.