

Supplementary data

A facile one-step preparation method of recyclable superhydrophobic polypropylene membrane for oil-water separation

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Movie S1 & S2:

Oil-water separation was carried out using superhydrophobic silica PP membranes. Separation was carried out by two methods (i) direct oil-water separation (ii) emulsion separation using a span-80 surfactant. For direct separation, a mixture of 40 ml of oil (toluene) and 40 ml of water which was coloured with methyl blue was taken in the separating funnel as shown in the movie S1. Similarly, the emulsion separation of oil/water mixture was carried out by prepared 9:1 (v/v) of oil and water with using a span-80 surfactant (0.4 g/l) as shown in the movie S2.