

Supporting Information

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Layer-by-Layer Assembly Fabrication of Porous Boron Nitride Coated Multifunctional Materials for Water Cleaning

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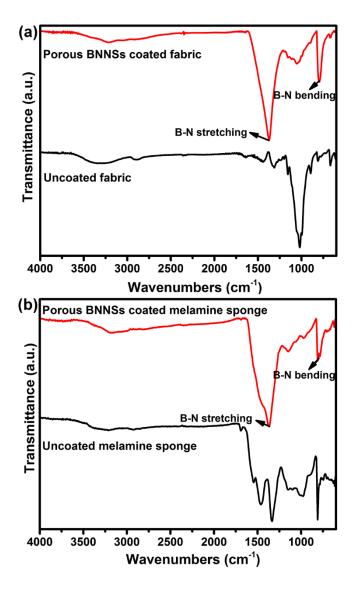
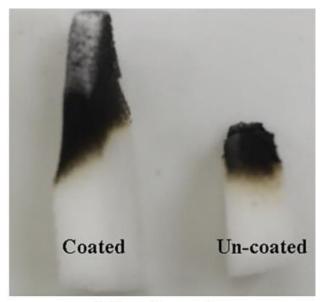


Figure S1. FT-IR spectra of uncoated and coated (a) cotton fabric and (b) melamine sponge by porous BNNSs.



After burning

Figure S2.Photographs of the coated and uncoated melamine sponge by porous BNNSs after 1 min combustion.

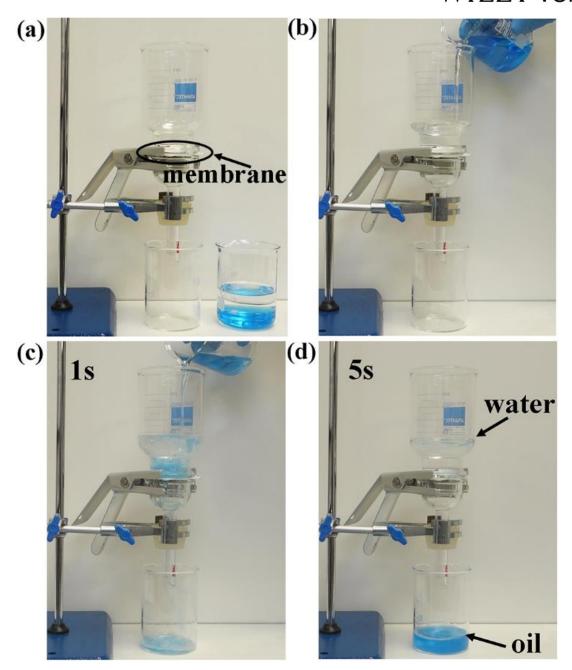


Figure S3. Oil/water separation studies of the porous BNNSs coated 2D fabric membrane. (a) The coated membrane was fixed between two glass tubes, (b) the mixture of dichloromethane (dyed by blue colour) and water was put into the upper glass tube. (c, d) Dichloromethane permeated through the coated membrane, while the water was repelled and kept in the upper glass tube.

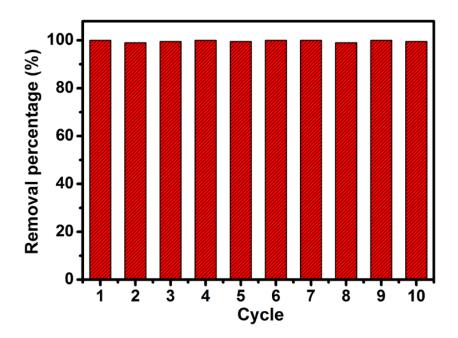


Figure S4. Variations of the removal capacity of dichloromethane (dyed by blue colour) by porous BNNSs coated 2D fabric membrane in different cycles.

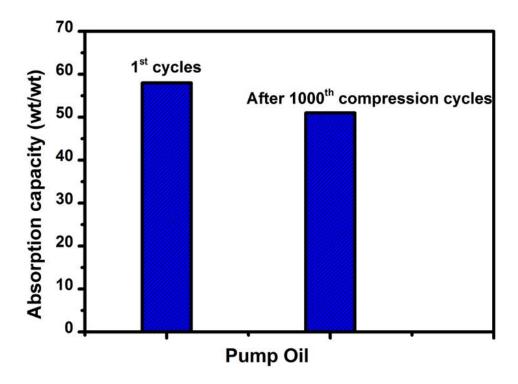


Figure S5. The adsorption capacity for pump oil using the porous BNNSs coated 3D melamine sponge before and after 1000 compressions cycles at 50% strain.