

## Supporting Information

### **Multifunctional Underwater Superoleophobic Cellulose-based Composite Aerogel with Oil/Water Separation, Dye Adsorption, and Antibacterial Activities**

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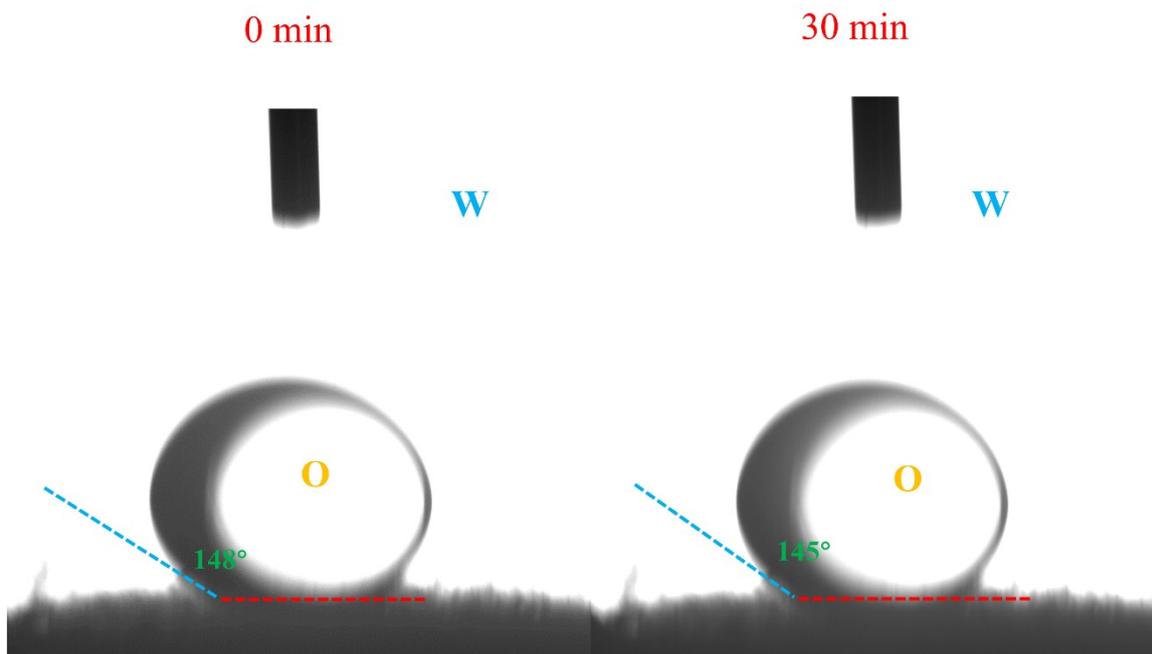
**S2.** The stress-strain curves of PDA/PEI-decorated CE/QCE composite aerogel at compressive strain.

## **Movies:**

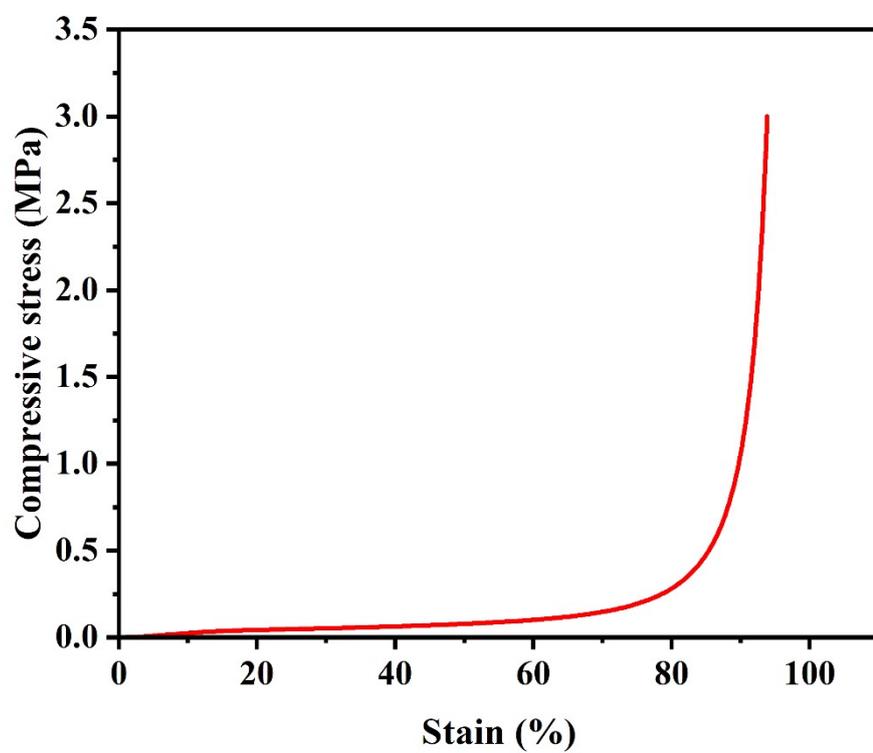
Movie S1: Water contact angle video of PDA/PEI-decorated CE/QCE composite aerogel.

Movie S2: Processes of demonstrating the self-cleaning and anti-oil-adhesion performance of PDA/PEI-decorated CE/QCE composite aerogel.

Movie S3: Processes of oil/water separation.



**Figure S1.** Contact angle of PDA/PEI-decorated CE/QCE composite aerogel to cyclohexane in water (O for oil droplets, W for water).



**Figure S2.** The stress-strain curves of PDA/PEI-decorated CE/QCE composite aerogel at compressive strain.