## Supporting Information

## Superhydrophilic Cement-Coated Mesh: An Acid, Alkali, and Organic Reagent-Free Material for Oil/Water Separation

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**Video S1.** The underwater touch and leaving processes of dichloromethane on the superhydrophilic cement-coated meshes. The dichloromethane left the substrate easily, indicating the ultralow stickiness of the meshes to oils.

**Video S2.** The underwater rolling off processes of the oils on the superhydrophilic cement-coated meshes.

**Video S3.** The separation processes of hexane/water mixture driven by gravity. Hexane/water mixture was firstly poured onto the superhydrophilic cement-coated meshes mounted between two acrylic tubes and then separated completely.



**Figure S1.** Surface micromorphologies of the superhydrophilic cement-coated meshes with different cement masses per unit area: (a)  $0.32 \text{ kg/m}^2$ , (b)  $0.21 \text{ kg/m}^2$ , (c)  $0.13 \text{ kg/m}^2$ .



**Figure S2**. Separation of oil/water mixtures containing 1 M aqueous  $MgCl_2$  solution, 1 M aqueous  $Na_2CO_3$  solution, or 1 M aqueous  $Na_2SO_4$  solution: (a) CAs of hexane on the superhydrophilic cementcoated meshes under these solutions and the separation efficiency of these mixtures, and (b) the separation processes of these mixtures.



**Figure S3**. The variation of the water mass flux and separation efficiency of the cement-coated meshes with the hexane/1M aqueous NaOH solution.