**Supplementary Materials**

**Highly hydrophobic polydimethylsiloxane-coated expanded vermiculite sorbents for selective oil removal from water**

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**Table**

**Table S1.** Specific surface area, average pore diameter, and total pore volume obtained from BET analysis.

|  |  |  |  |
| --- | --- | --- | --- |
| Sample ID | Specific surface area [m2/g] | Average pore diameter [nm] | Total pore volume [cm3/g] |
| eVMT | 4.76 | 17.0 | 0.020 |
| eVMT@PDMS | 4.26 | 14.4 | 0.015 |

**Movies**

**Movie S1**. Selective removal of *n*-hexane on the surface of water using the eVMT@PDMS column.

**Movie S2.** Selective removal of chloroform underwater using the eVMT@PDMS column.

**Movie S3.** A side-view video of a barrel-shaped oil skimmer, collecting *n*-hexane (dyed red) from the surface of water in a speed of 2X.

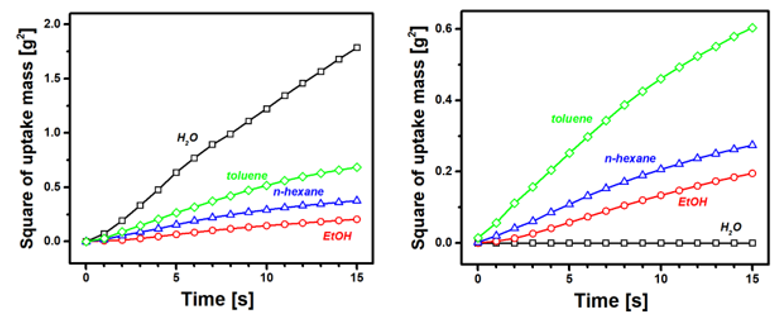
**Movie S4.** Transfer of *n*-hexane (dyed red) on the surface of water (dyed blue) to a collecting flask by an aspirator in a speed of 4X.

**Figures**

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**Fig. S1.** A picture showing an experimental setup to pump *n*-hexane on the surface of water through the eVMT@PDMS-packing tube.

1. **(b)**

 **Fig. S2.** Time-dependent variations of squared uptake mass for four different liquids along the capillary tubes packed by (a) eVMT and (b) eVMT@PDMS particles.