

Electronic Supplementary Material

One-step preparation of modified photothermal-driven melamine foam with gradient wettability for oil–water separation

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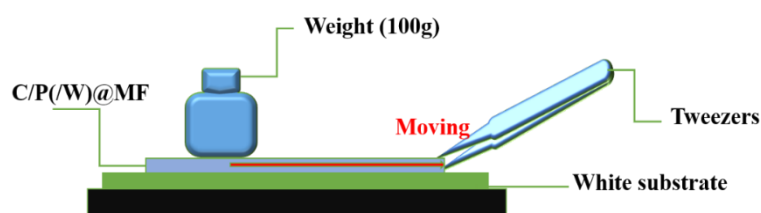


Fig. S1 Schematic diagram of the C/P/W@MF or C/P@MF friction.

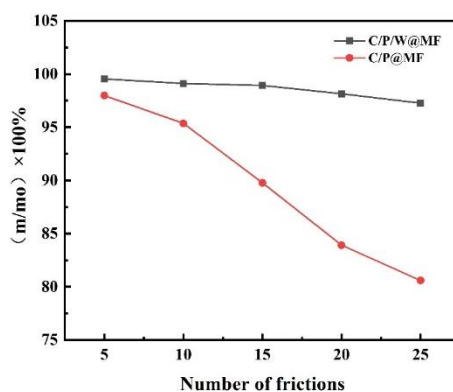


Fig. S2 Effect of friction on mass losses of C/P/W@MF and C/P@MF.

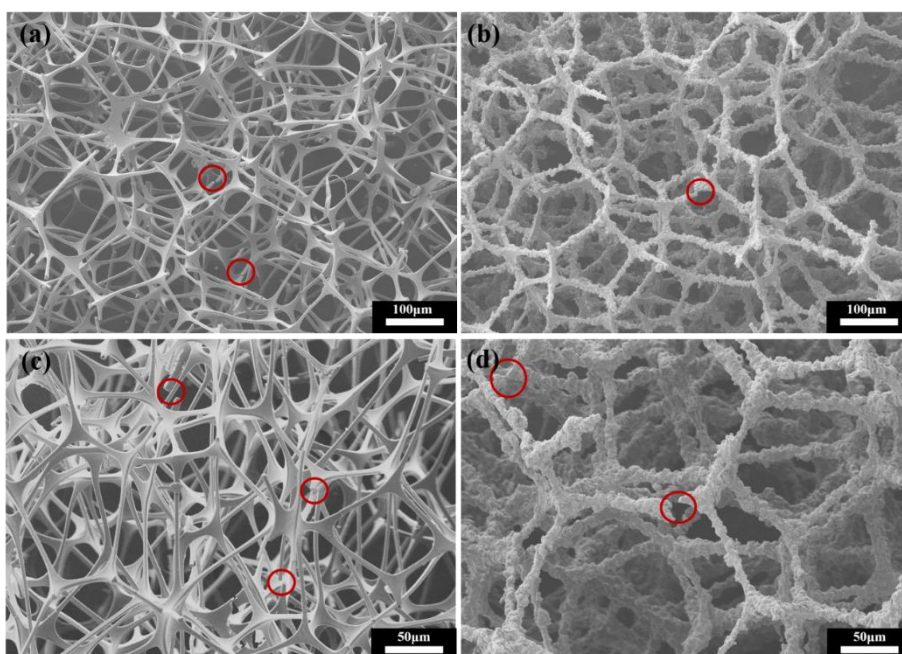


Fig. S3 SEM images of the original MF foam with the cycle number of (a) 1 and (c) 10 at the strain of 60%. SEM images of the C/P/W@MF foam with the cycle number of (b) 1 and (d) 10 at the strain of 60%.

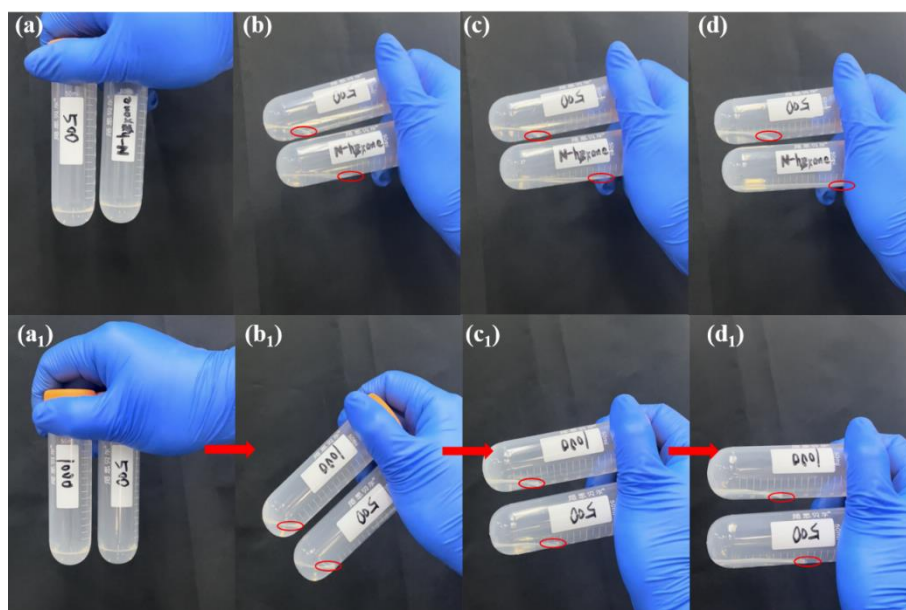


Fig. S4 (a)(b)(c)(d) Comparison of viscosities of n-hexane and high-viscosity oil (PX-500 cst) with the same volume. (a₁)(b₁)(c₁)(d₁) Comparison of viscosities of high-viscosity oils (PX-500 cst and PX-1000 cst) with the same volume.

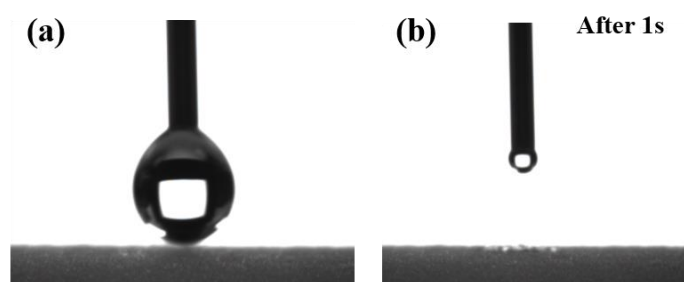


Fig. S5 Contact angle tests for C/W@MF (without PDMS) (a) at the initial and (b) after 1 s.