

Supplementary information

Superhydrophobic and elastic melamine sponge for oil/water separation

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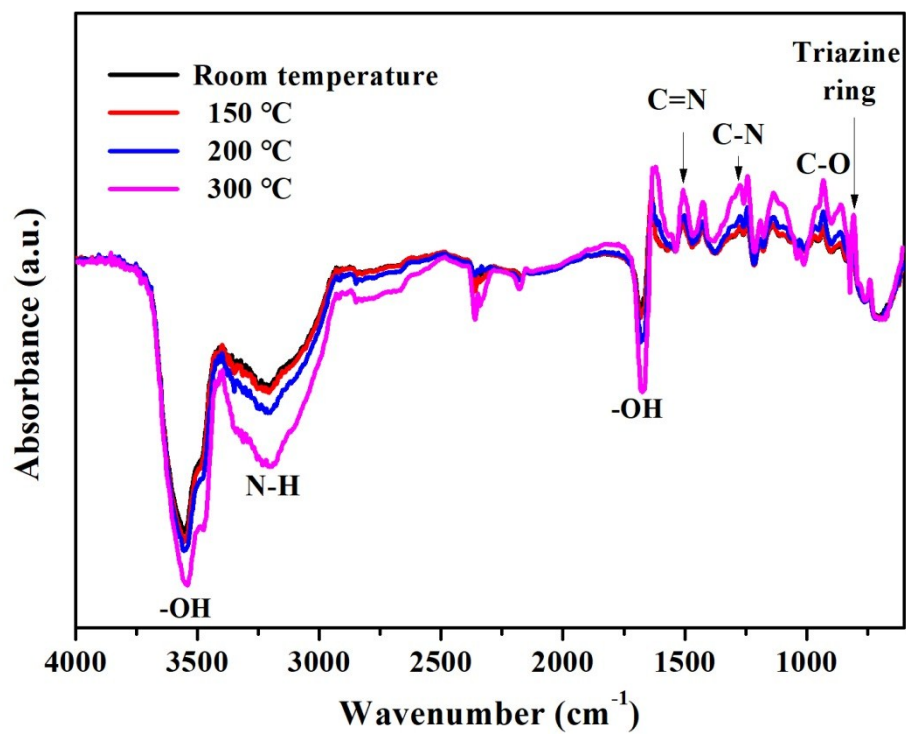


Fig. S1 In situ DRIFTS measurements of MS at different temperatures.

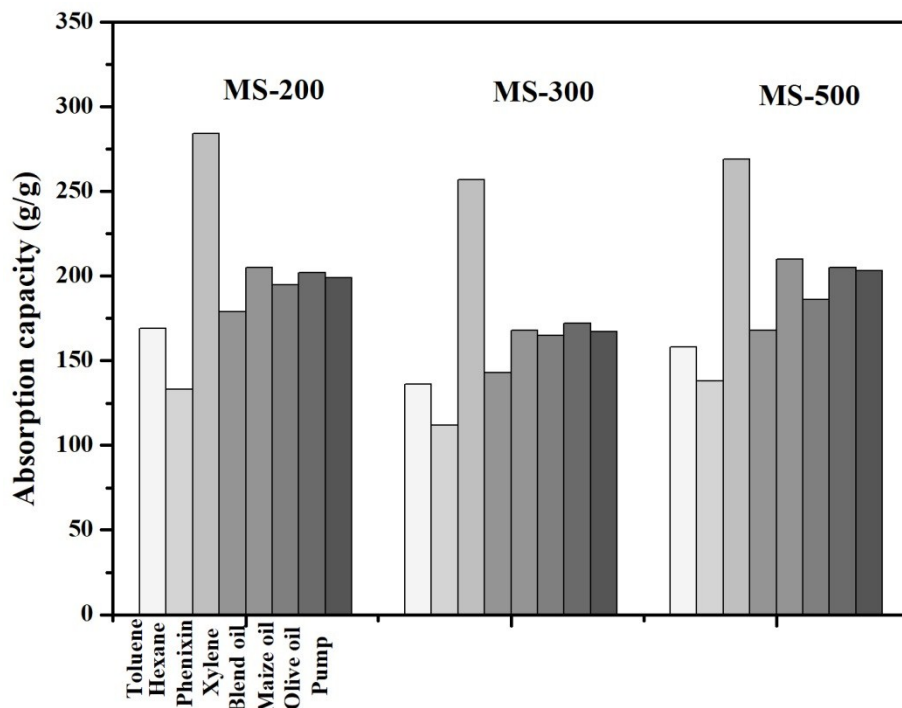


Fig. S2 Adsorption capacities for various organic solvents and oils for different samples: MS-200, MS-300 and MS-500.

Table. S1 The comparison of adsorption capacity of various adsorbents.

Adsorbents	Q _{wt} (g/g)	Contact angle (°)	Cycle times	References
Graphene-carbon nanotube sponge	215-743	132.9	>10	[1]
Carbon foam	148-411	/	10	[2]
Superhydrophobic melamine sponge	133-284	168	>50	This work
Melamine-derived carbon sponge	90-200	140	/	[3]
Carbon nanotube sponge	80-180	156	/	[4]
Reduced graphene oxide melamine sponge	80-161	153	>50	[5]
Trichlorosilane on carbonized melamine sponge	71-158	145.4	5	[6]

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