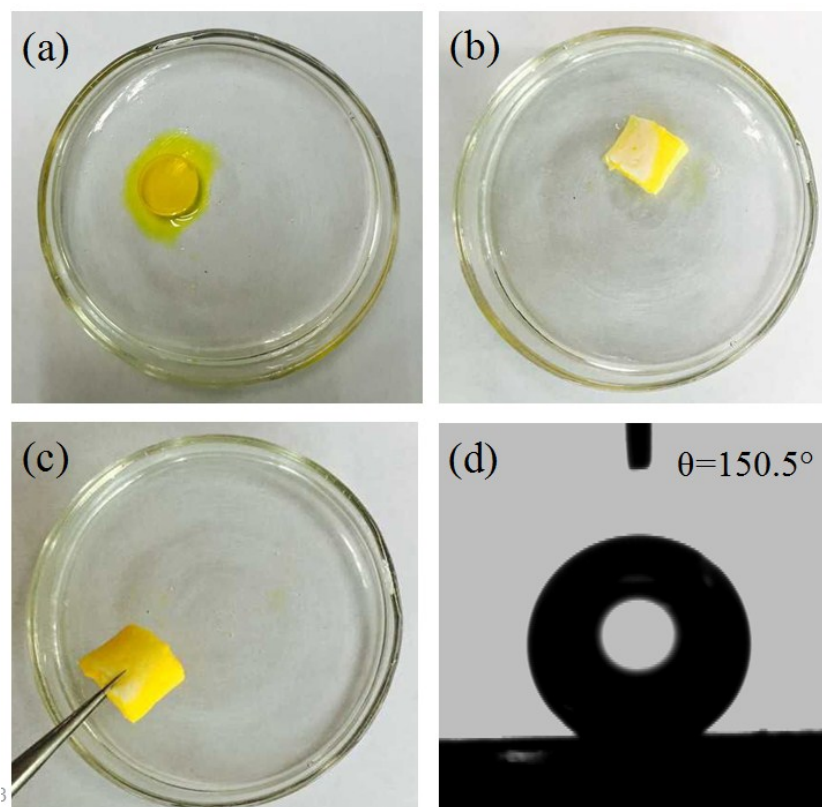


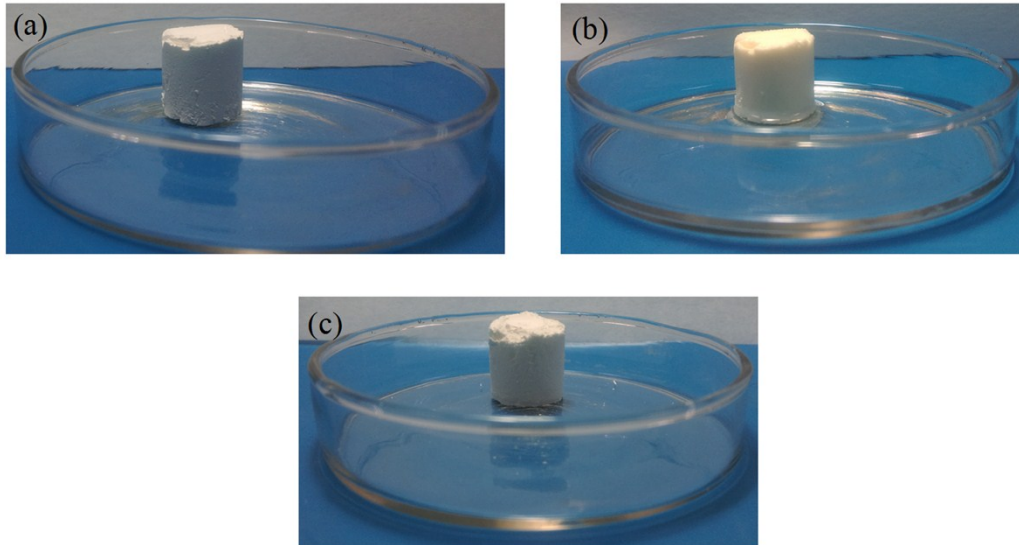
## Supporting Information

### Autocatalytic synthesis of molecular-bridged silica aerogels with excellent absorption and super elasticity

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**Fig. S1** (a-c) photo images of the MBSAs been used to absorb hexane (dyed with oil-soluble dyes), and (d) water contact angle on the surface of MBSAs (sample with density of  $0.0702\text{g cm}^{-3}$ )



**Fig. S2** Photographs showing various stages of adsorption and desorption of hexane from the aerogel (sample with density of  $0.0702\text{ g cm}^{-3}$ ). (a) before absorption, (b) immediately after absorption,  $t \approx 5$  min, (c) after desorption,  $t \approx 15$  min (heating at  $80$   $^{\circ}\text{C}$ ).