Shape-controlled hydrothermal synthesis of superhydrophobic and superoleophilic BaMnF4 micro/nanostructures

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Figure S1. the EDS patterns of the samples prepared via hydrothermal method under pH=4 at 160 °C for 24 h.

![Figure S1](image)

Figure S2. CAs of water droplets on the surfaces of different glass. (a) none, (b) modified by stearic acid.

![Figure S2](image)

Figure S3. SEM images of the films (a) before ultrasonic concussion (b) after

![Figure S3](image)
ultrasonic concussion, (c) photo of a water droplet on the film after ultrasonic concussion.

Fig. S4. (a) The BaMnF$_4$ surface remained superhydrophobic upon being touched by a finger, and (b) water droplets exhibited spherical shape on the touched fabric surface.