

Electronic Supplementary Information

**Facile fabrication of nanocomposite microcapsules by combining
layer-by-layer self-assembly and Pickering emulsion templating**

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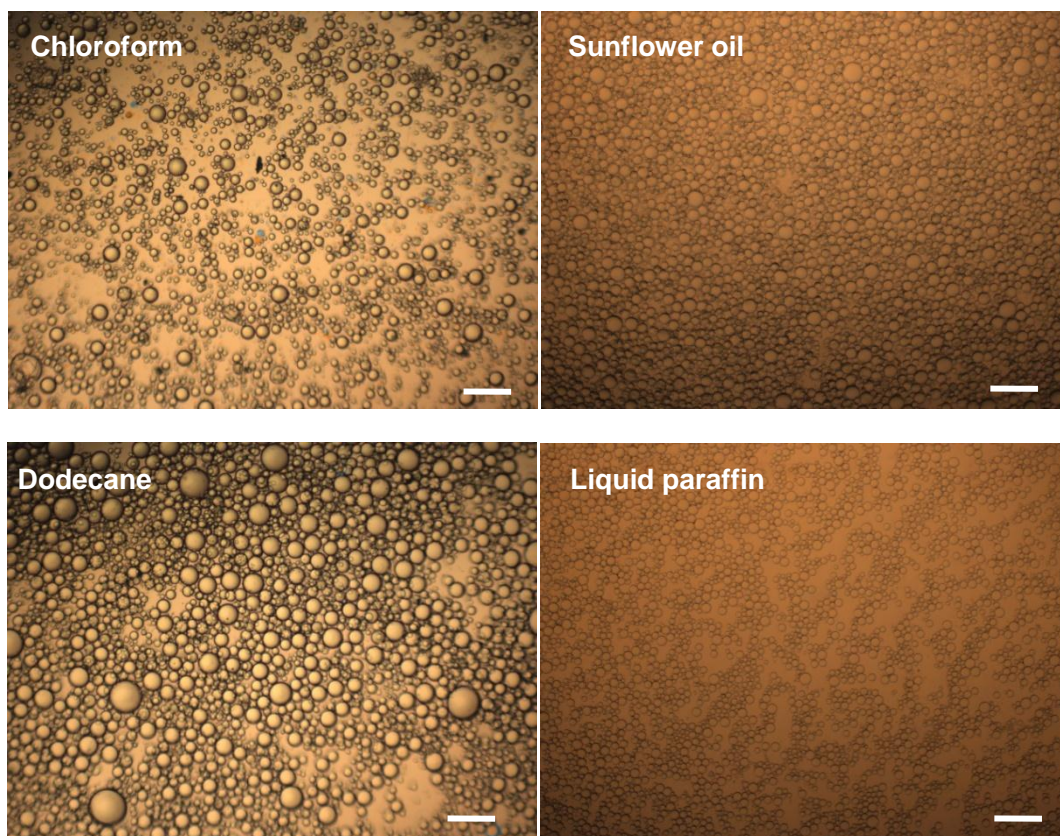


Fig. S1 Optical micrographs of Pickering emulsions prepared using different oils. The concentration of Laponite is 0.25 wt%, PEI/Laponite mass ratio is 0.5. All scale bars represent 100 μm .

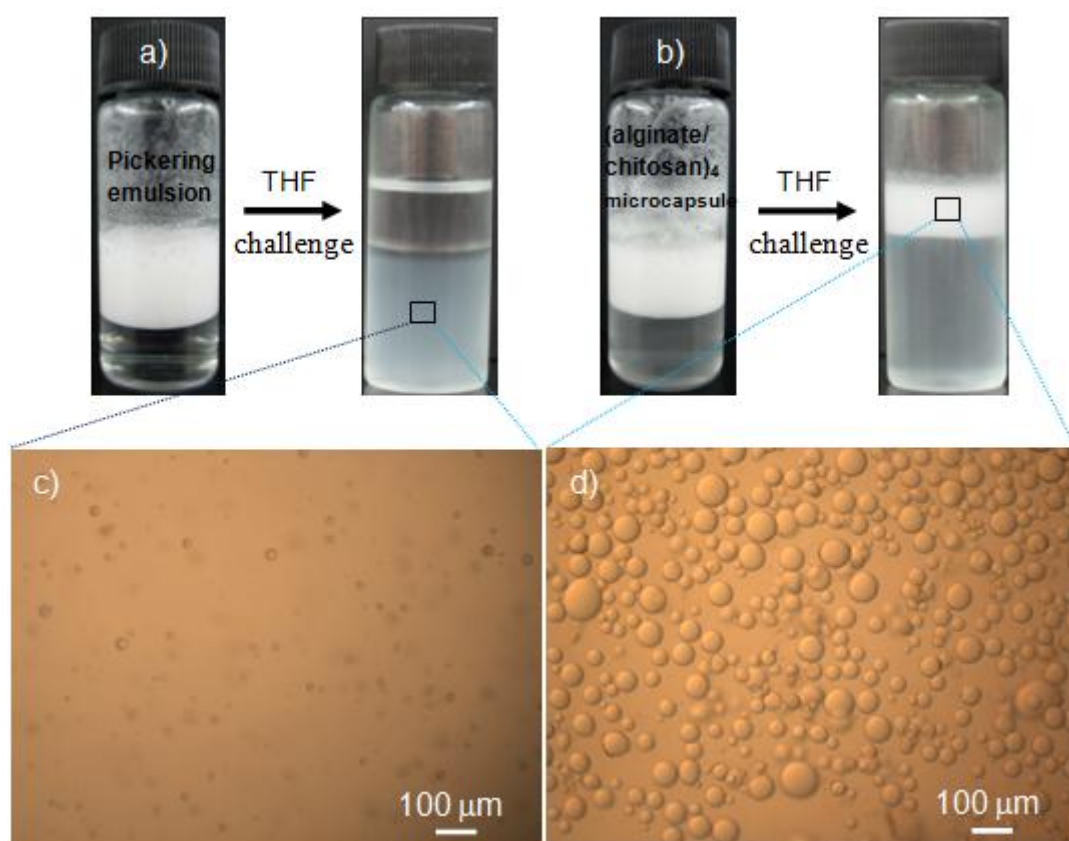


Fig. S2. Digital photographs of the clean Pickering emulsion (a) and (ALG/CS)₄ microcapsules (b) following a THF challenge. Optical microscopy images of the clean Pickering emulsion (c) and (ALG/CS)₄ microcapsules (d) after a THF challenge. Laponite concentration is 0.25 wt. %. PEI/Laponite mass ratio is 0.5.

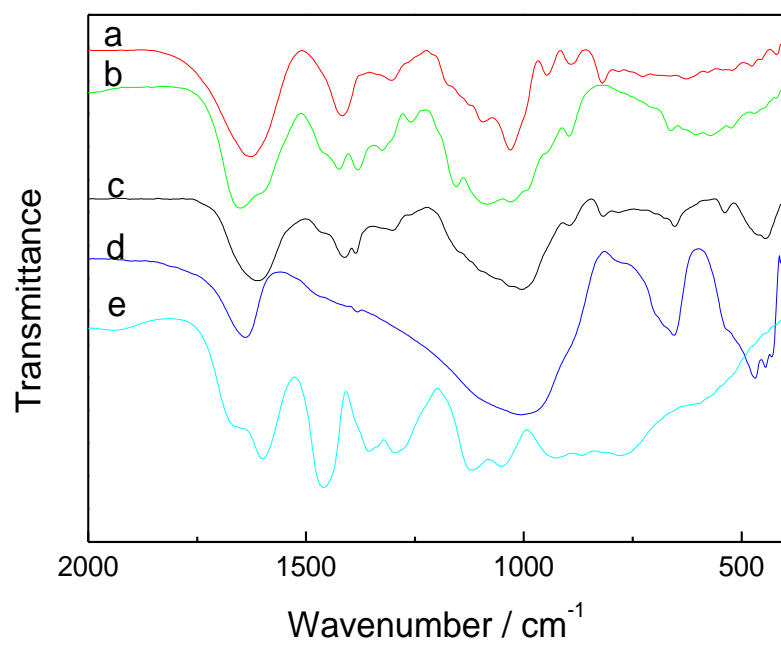


Fig. S3. FTIR spectra of (a) ALG, (b) CS, (c) microcapsule, (d) Laponite, and (e) PEI.

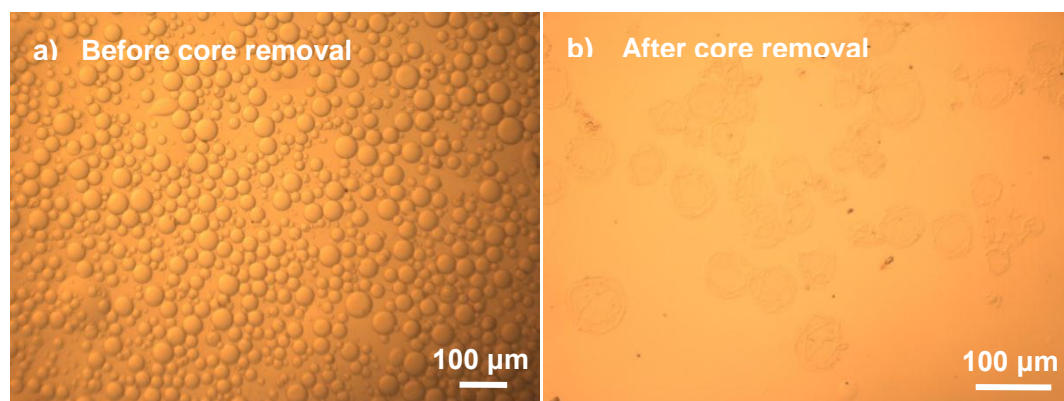


Fig. S4. Optical images of the (ALG/CS)₄ microcapsules before and after core removal.