

Droplet-Based Microfluidic Preparation of Shape-Variable Alginate Hydrogel Magnetic Micromotors

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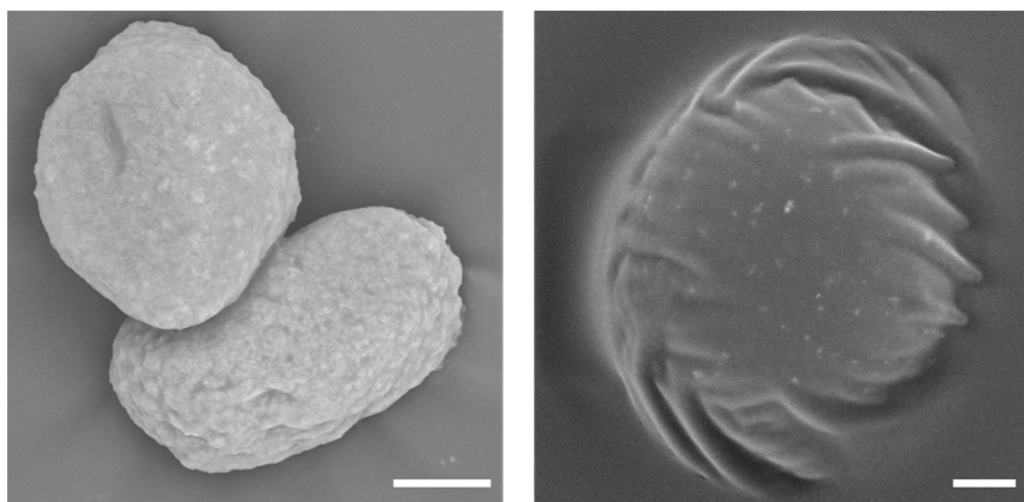


Figure S1. SEM images of Na-Alg/Fe₃O₄ microparticles fabricated with the use of Tween 80 (surfactant) in DMC. $C_{i,Na-Alg}$ is 0.09 mg/mL (left) and 0.9 mg/mL (right) for the microfluidic experiment. Scale bar 10 μm.

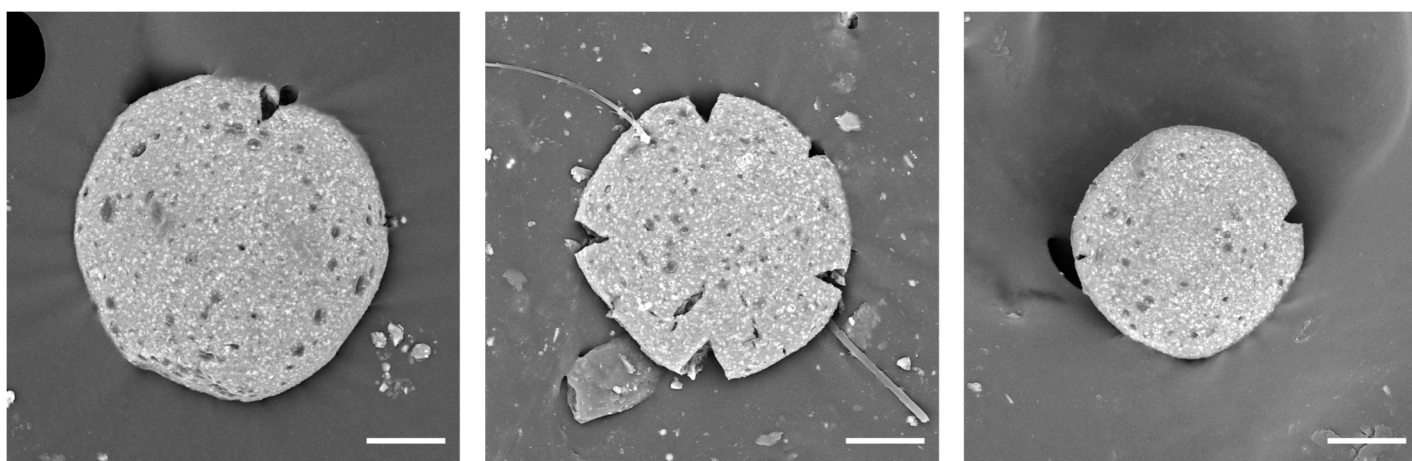


Figure S2. SEM images of broken Na-Alg/Fe₃O₄ microparticles (prepared with $C_{i,Na-Alg}$ at 0.9 mg/mL for the microfluidic experiment). Scale bar 20 μm.

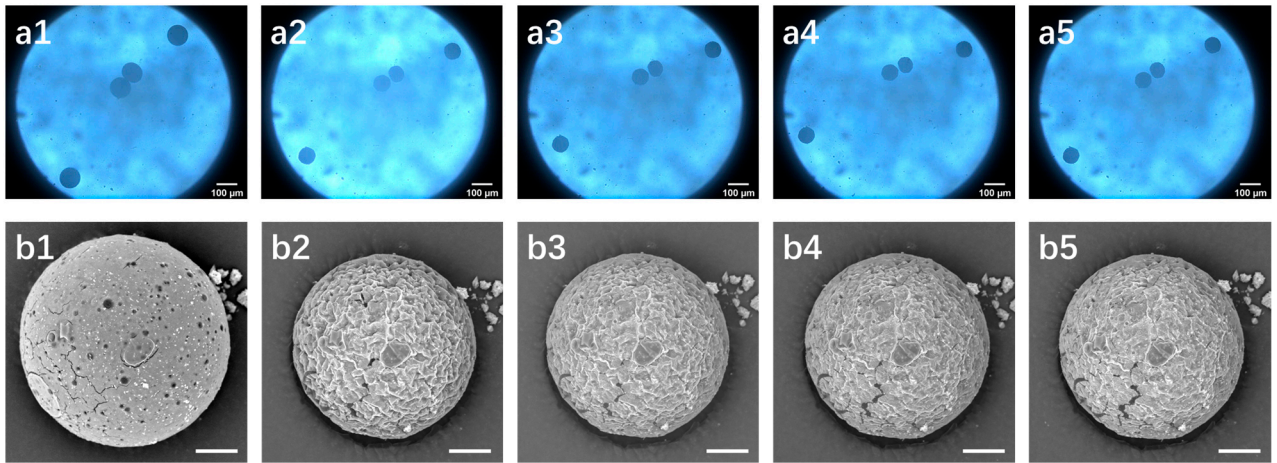


Figure S3. (a1–a5) Optical microscopic images (in air) and (b1–b5) SEM images of the same Na-Alg/Fe₃O₄ microparticles (prepared with $C_{i,Na-Alg}$ at 9 mg/mL for the microfluidic experiment). From a1 to a5, also from b1 to b5, the observation time is t_0 (just after the preparation), t_0+20h , t_0+24h , t_0+48h , t_0+72h . SEM scale bar 20 µm.

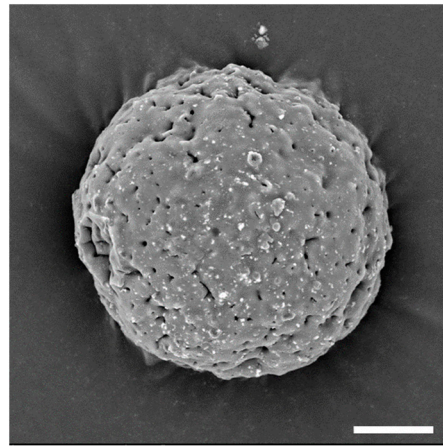


Figure S4. SEM image of a Na-Alg/Fe₃O₄ microparticle stored in air for 72 h after preparation.

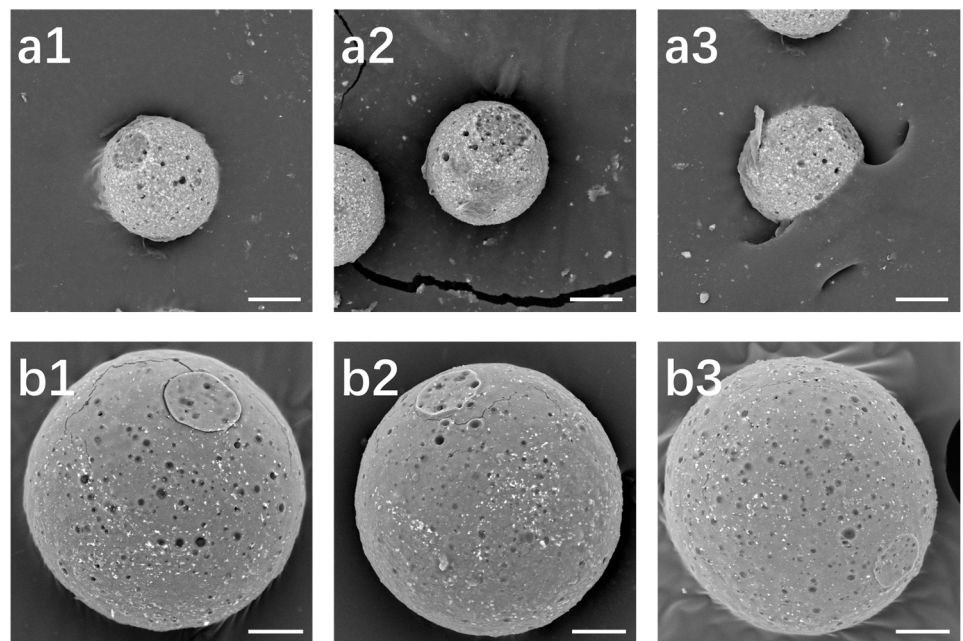


Figure S5. SEM images of Na-Alg/Fe₃O₄ microparticles prepared with $C_{i,Na-Alg}$ at (a1–a3) 0.9 mg/mL and (b1–b3) 9 mg/mL for the microfluidic experiment. Scale bar 20 µm.