

Supporting Information
Polymer-silica hybrid self-healing
nano/microcapsules with enhanced thermal and
mechanical stability

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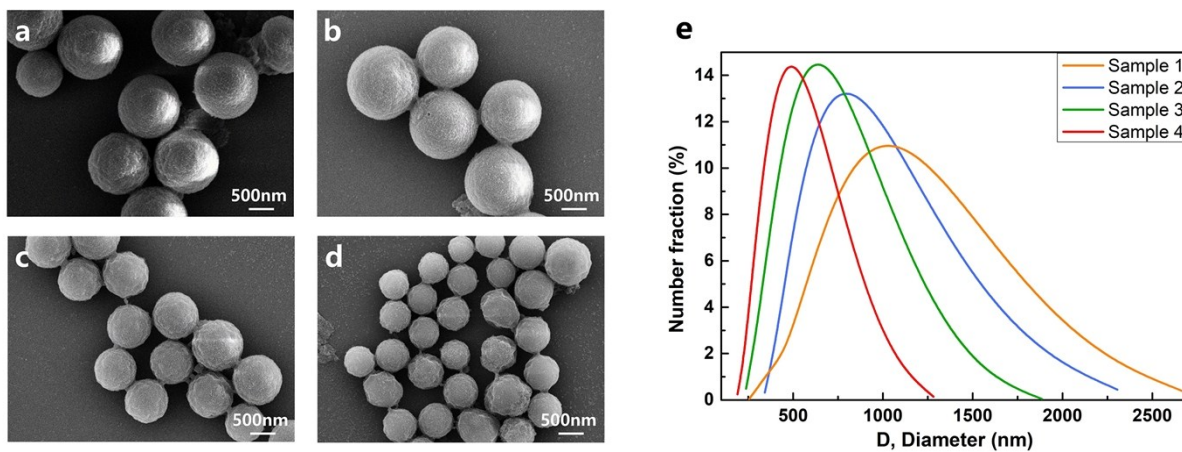


Figure S1. SEM images (a, b, c, d) and capsule size distributions (e) of Sample 1, 2, 3, 4 with different agitation rates.

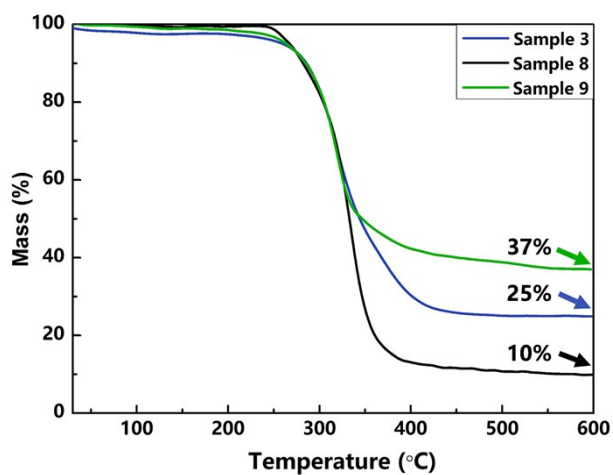


Figure S2. TGA curves of the capsule samples (Sample 3, Sample 8, Sample 9).

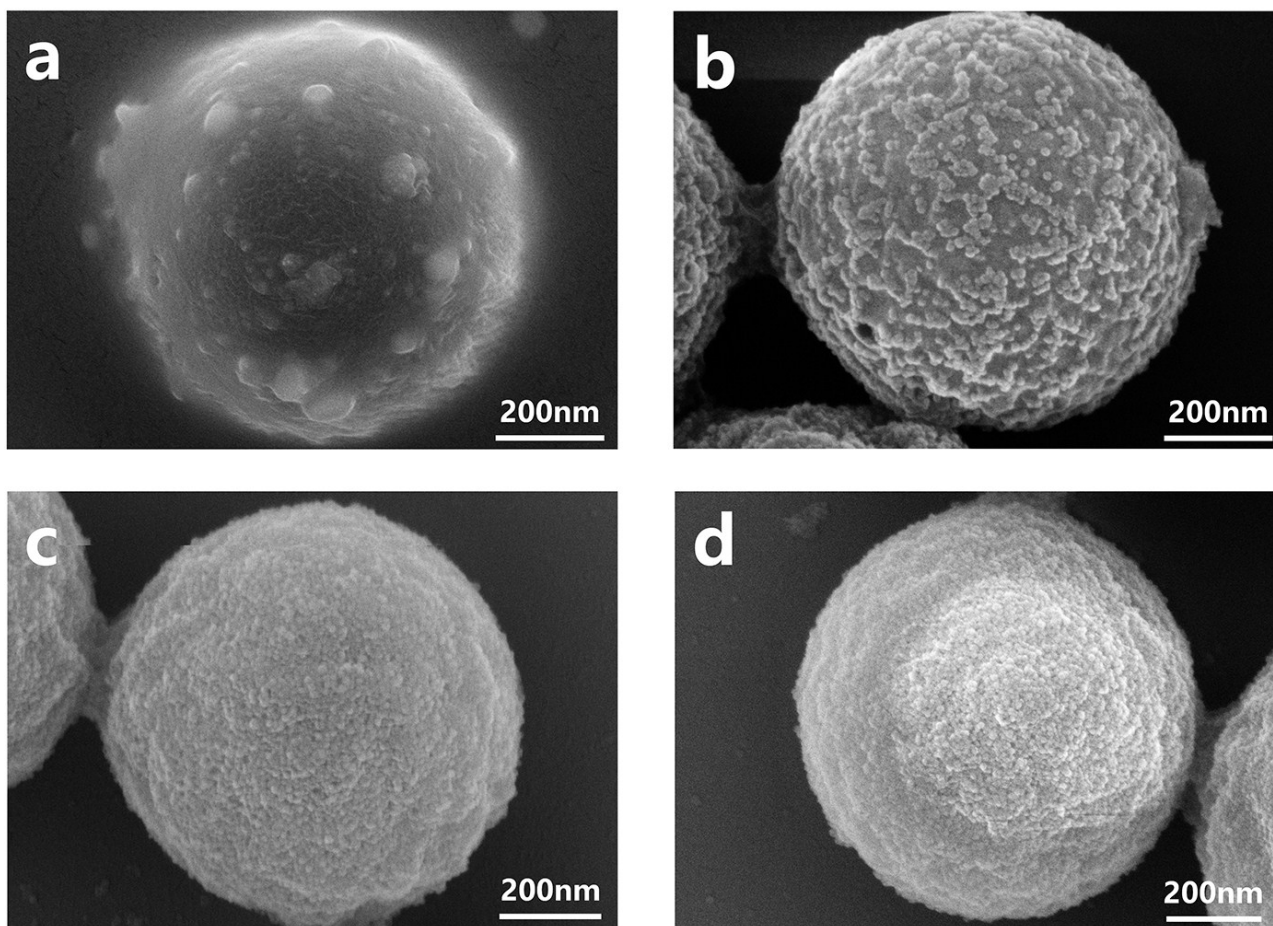


Figure S3. SEM images (a, b, c, d) of the capsule samples (blank sample, sample 3, sample 8, sample 9).

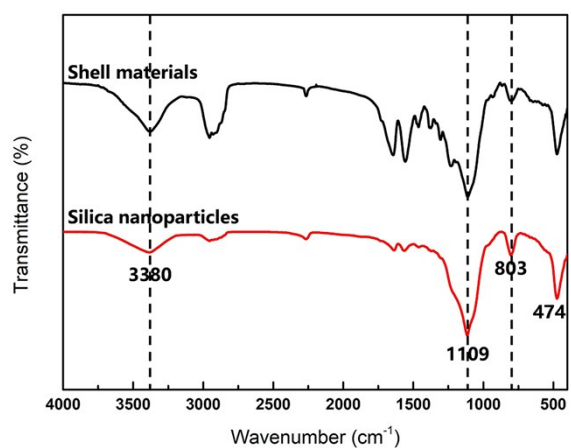


Figure S4. FT-IR spectra of silica nanoparticles and the shell materials.

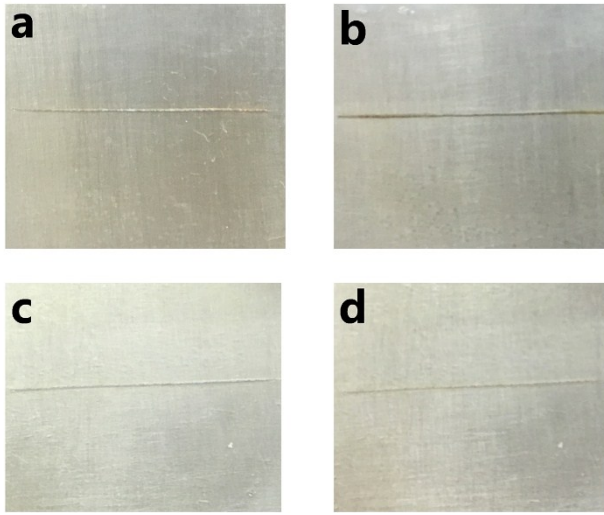


Figure S5. The optical images of the pure resin coating and the self-healing coating before (a, c) and after (b, d) the brine-submersion corrosion-accelerating test.