

Supporting Information for

Fabrication of phase-change polymer colloidal crystals¹

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Table S1. The influence of the mixing ratio of n-hexane/polymer on the resultant morphology of latex spheres.

Ratio of n-hexane/polymer	0.1:1	1:1	2:1	8:1	10:1	12:1	20:1
morphology	no change	no change	black residue	black residue	good	broken	broken

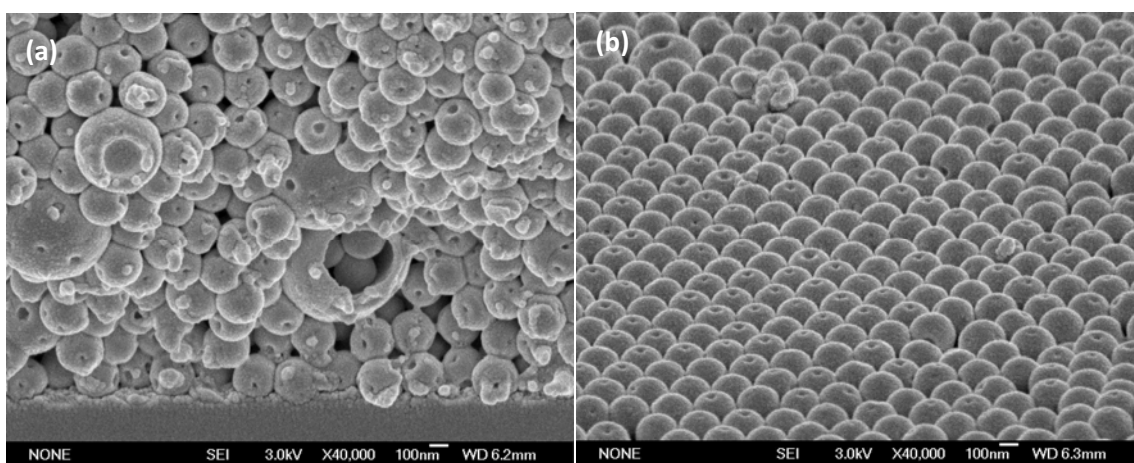


Figure S1. SEM images of the films assembled from hollow latex particles, the latex was treated in liquid N₂ for 5min.

Clearly, obvious hollow cavity could be seen for large latex spheres in (a), or there is some cavity could be clearly found in latex surface in (b). All these confirm the obtainment of the hollow latex particles.

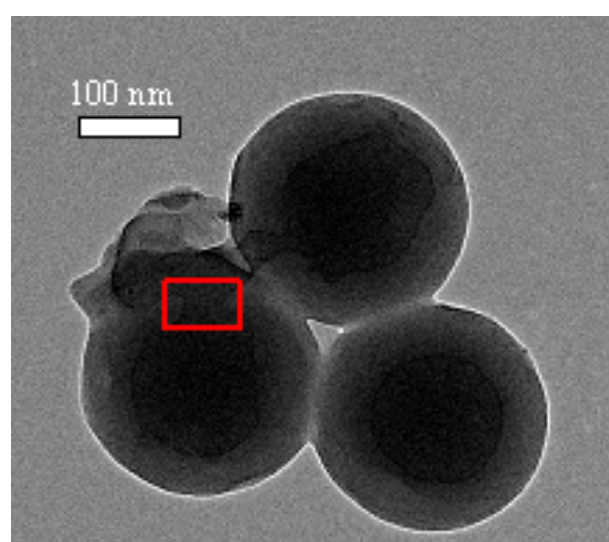


Figure S2. TEM image of latex spheres encapsulated with n-dedocanol. The encapsulated materials can be clearly observed from flow-like core, inserted red rectangle shows the flow-out of some encapsulated material.