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(54) **Title:** SURFACTANT-GUIDED SPATIAL ASSEMBLY OF NANO-ARCHITECTURES

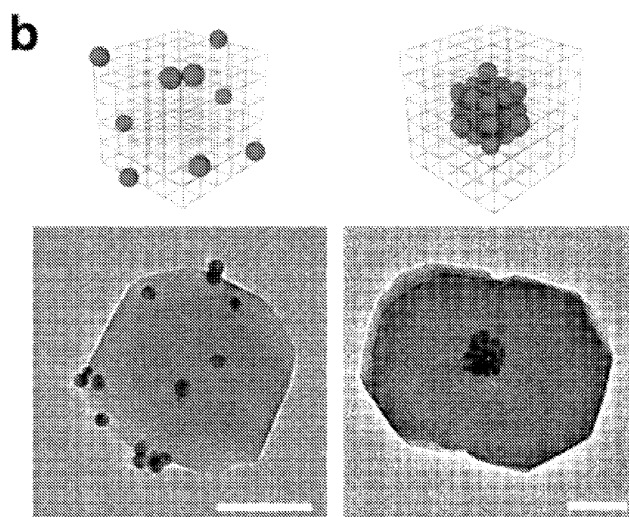


FIG. 1b

(57) **Abstract:** Provided herein is a composite metal organic framework encapsulating one or more populations of particles, which particles comprise an outer shell region formed from a surfactant and an inner region comprising one or more of a nanoparticle and/or a plurality of protein molecules. Provided also are methods involving the composite metal organic framework.

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