

Abstract Submitted  
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**Towards 2D nanocomposites** HYUN-SOOK JANG, CHANGQIAN YU, ROBERT HAYES, STEVE GRANICK, Univ of Illinois - Urbana — Polymer vesicles (“polymersomes”) are an intriguing class of soft materials, commonly used to encapsulate small molecules or particles. Here we reveal they can also effectively incorporate nanoparticles inside their polymer membrane, leading to novel “2D nanocomposites.” The embedded nanoparticles alter the capacity of the polymersomes to bend and to stretch upon external stimuli.

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