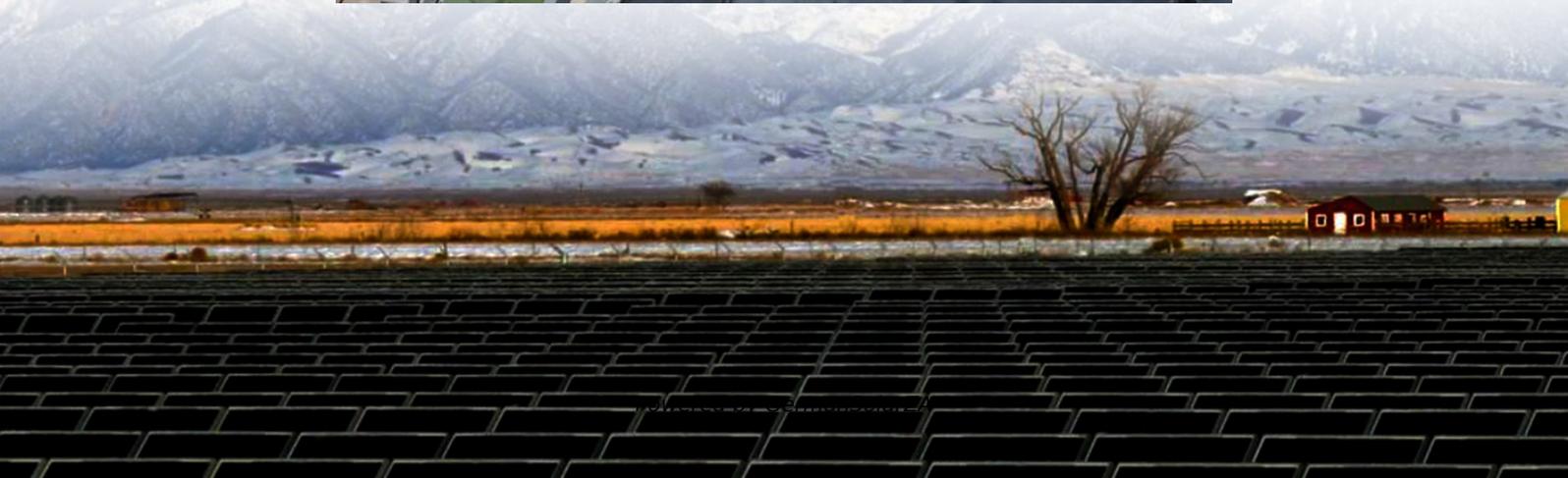
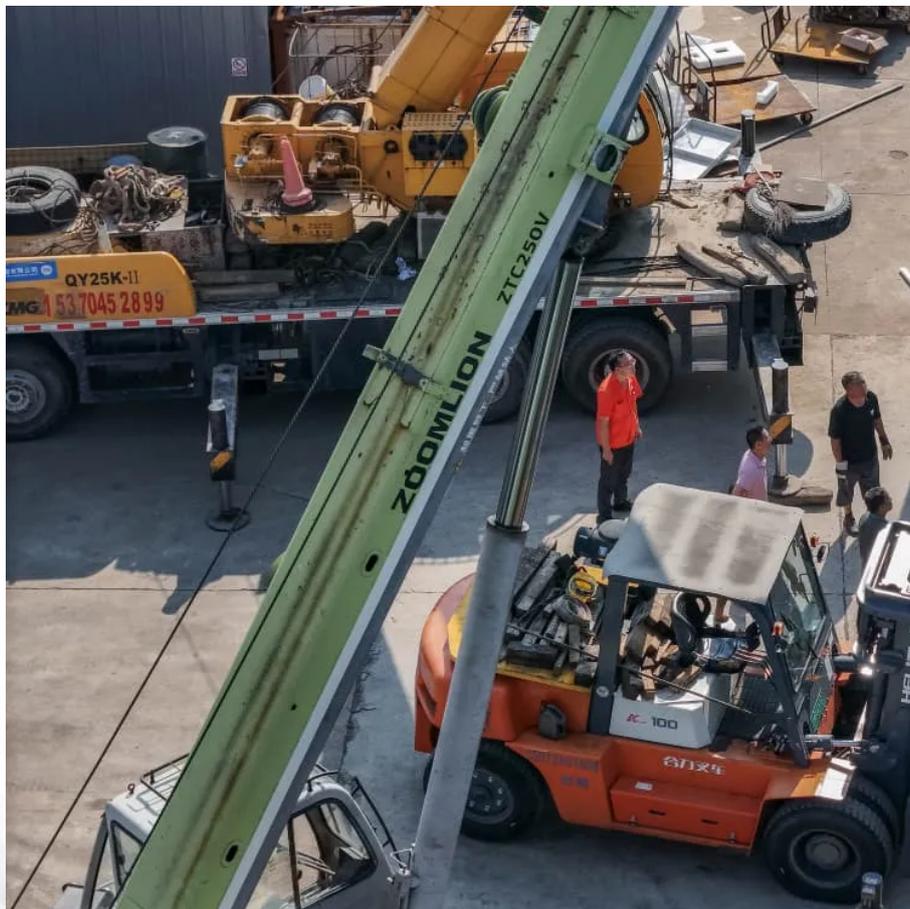


Promotion of three-phase folding containers for field research





Overview

Can self-folding polymeric containers be used in drug delivery applications?

Applications Although the field of self-folding is still in its infancy, the relevance of self-folding polymeric containers in drug delivery applications is evident on account of its capability of incorporating many advantageous attributes for drug delivery applications within a single fabrication approach , .

Are foldable containers effective in repositioning empty containers?

Foldable containers are considered an effective solution to deal with the endemic imbalance in the repositioning of empty containers. Several foldable containers were commercialized without clear breakthrough in the market and most current researches are still limited to small pilot projects.

What is the research area of self-folding of polymeric thin films?

Research in the broader area of self-folding of polymeric thin films has many foci such as the fabrication of polymeric actuators , , , , the fabrication of complex meso scale structures inspired by protein folding , the area of robotics and the synthesis of biomimetic materials and scaffolds , , , .

How to create polymeric containers by self-folding?

To create polymeric containers by self-folding, it is necessary to deposit one or more layers of a polymer or gel on a flat substrate or a mold so that they can be patterned on the micro or nanoscale. Most polymers and gels can be spin or dip coated from solution as thin films with precise, controlled thickness.



Promotion of three-phase folding containers for field research



[A three dimensional self-folding package \(SFP\) for ...](#)

ABSTRACT We describe the concept of a 3D self-folding package (SFP) for sensors and electronic devices. The strategy is based on a self-assembly strategy wherein 2D ...

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[Self-folding micropatterned polymeric containers](#)

Abstract We demonstrate self-folding of precisely patterned, optically transparent, all-polymeric containers and describe their utility in mammalian cell and microorganism encapsulation and ...

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Self-folding polymeric containers for encapsulation and delivery ...

In this review, we focus on self-folding of all-polymeric containers. We discuss the mechanistic aspects of self-folding of polymeric containers driven by differential stresses or ...



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Self-folding devices and materials for biomedical applications

The motivation for developing self-folding polyhedral micro/nanoscale containers is to utilize the extreme precision of planar lithographic methods to precisely structure hollow encapsulants in ...

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Self-folding polymeric containers for encapsulation and delivery ...

Self-folding broadly refers to self-assembly processes wherein thin films or interconnected planar templates curve, roll-up or fold into three dimensional (3D) structures ...

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[Self-folding devices and materials for biomedical ...](#)

Self-folding refers to self-assembly processes wherein planar structures fold up spontaneously, typically when released from a substrate or exposed to specific stimuli. The ...

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Self-folding devices and materials for biomedical applications

Self-folding polyhedral containers The motivation for developing self-folding polyhedral micro-/nanoscale containers is to utilize the extreme precision of planar lithographic ...

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[Self-folding micropatterned polymeric containers](#)

Self-folding of multiple containers and versatility in polyhedral shape, size and precise porosity in all three dimensions. The lithographically patterned pores are outlined in red and the scale bar ...

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