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Promotion of three-phase folding containers for field research



Overview

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 are the conditions for the success of foldable containers?

Konings and Thijs summarized clearly the conditions for the success of foldable containers in the market: (1) low costs for folding and unfolding the containers; (2) low manufacturing costs; (3) compatibility with existing equipment for intermodal transport; and (4) structural robustness.

Why are foldable containers so controversial?

One main reason for this controversy is the high purchase cost of the foldable container. The current purchase cost of the developed foldable container is currently set to US\$ 20,000 but will be lowered to US\$ 10,000 in case of mass production, which is still significantly higher than the purchase price of US\$ 5,000 of a standard 40-foot container.

What are the benefits of a foldable container?

Using the newly developed foldable container can not only significantly reduce logistics costs, but also bring positive environmental impacts such as reducing greenhouse gas that may have arisen from transporting bulky empty containers. Also the foldable container influences social aspects such as noise pollution, local development and employment.

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The "folding paradigm" was established as a practical design methodology, demonstrated through a portfolio of eight innovative case studies showcasing principles of ...

This task includes the implementation of the demonstration plan and procedures of the

Phase 2 project by the marketing department of HCI and the delivery of the first batch of ...

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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Table A2 shows how much the folding and unfolding may cost for the chain costs to equal the costs for the use of standard containers, for various circumstances regarding the ...

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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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method. ...

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Liquid-liquid phase separation (LLPS) of G-quadruplex (GQ) is involved in many crucial cellular processes, while the quadruplex-folding and their functions are typically ...

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NKOSITHANDILEB SOLAR

Phone: +27-11-934-5771

Email: info@nkosithandileb.co.za

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