

Three-dimensional polymer networks for solid-state electrochemical energy storage Here, we review recent advances in 3D polymer based solid-state electrochemical energy storage devices (mainly in ...

Their three-dimensional, monolithically integrated nanosystem comprises several emerging technologies. It senses ambient gases with low-power nanosensors, stores the data in more than a ...

Solar-driven interfacial evaporation is a promising desalination technology to alleviate global water scarcity. However, the evaporation rate and long-term stability are still the key ...

A kirigami-engineered composite hydrogel membrane is exploited for the construction of three dimensional (3D) solar-tracking evaporator arrays ...

A fusion of two independent but complementary three- dimensional imaging techniques is proposed for detecting drugs in containers, cargo, mail and luggage. The containers, cargo, mail and/or luggage ...

Here, we proposed a magnetic-actuated "capillary container" to realize three-dimensional (3D) fluid interface creation and programmable ...

For automated quayside container cranes, accurate measurement of the three-dimensional positioning and attitude of the container spreader is ...

Three-dimensional container energy storage makes this possible. This innovation combines modular design with vertical space optimization, solving critical challenges in renewable energy adoption and ...

Reference 19 articles. 1. Solar radiative fluxes for realistic extended broken cloud fields above reflecting surfaces;Barker 2. Ecological Climatology 3. A clear-sky spectral solar radiation model for snow ...

Solar-driven interfacial evaporation (SIE) and desalination is a promising approach to mitigate the scarcity of freshwater resources. Here, a three-dimensional polypyrrole (3D PPy) aerogel ...

Our large-scale integrated 3D printed evaporator-collector strategy demonstrates potential for portable solar-driven interfacial desalination and freshwater collection.

In order to achieve this, this publication examines the fundamentals of an automated container terminal, the existing automation solutions and sensor technologies, as well as the ...

Three-dimensional (3D) light detection and ranging (LiDAR) can monitor and support ship berthing because it provides abundant target ...

Three-dimensional (3D) depth imaging systems and methods are disclosed for automatically determining shipping container fullness based on imaging templates. A 3D-depth camera captures ...

Study provides the first visual evidence of lipid breakdown at the single-droplet level in living cells A research team has developed a fluorescent probe ...

High speed, high resolution, three dimensional solar cell inspection system Abstract An optical inspection system and method are provided. A workpiece transport moves a workpiece (12) in a ...

The quality and crystallization process of all-inorganic perovskite films play a crucial role in the performance of solar cells. However, traditional detection methods lack three-dimensional depth ...

Recently, three-dimensional (3D) technology based high precision crack detection methodologies has undergone extensive developments. Nevertheless, none of those methods has ...

With the application of three-dimensional laser scanning devices in ship manufacturing, the use of simulated container loading test methods based on point cloud becomes a ...

Finally, the three-dimensional nature of the task is challenging to interpret in two-dimensional images, especially in when the drilling the container and sampling moves tasks. ...

Solar evaporators have garnered significant attention as a sustainable energy-based technology for seawater desalination and wastewater purification d...

This technique is employed to build a three-dimensional, umbrella-shaped hybrid solar evaporator, carefully engineered to concurrently generate freshwater via solar energy and harvest ...

The Chang'e-6 mission achieved the first successful sample collection and return from the Moon's far side. Accurate alignment detection of the primary packaging container is critical for the ...

Five researchers affiliated with Nagoya University have been named in Clarivate's Highly Cited Researchers List for 2025. This list recognizes researchers who demonstrate significant ...

As intelligent ship technology advances, the importance of intelligent anchor position detection, as one of the key technologies, can ensure the safe anchoring of ships and enhance the efficiency of port ...

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Three-dimensional detection technology

solar

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