

Biological solar container method

Can photothermal carriers improve the efficiency of biological wastewater treatment? Sun and colleagues developed photothermal carriers to increase the efficiency of biological wastewater treatment at cold ambient temperatures. The photothermal carriers on the surface of the bioreactor convert solar energy into thermal energy, elevating the local temperature.

Can solar water disinfection be used in large-volume containers? Solar water disinfection in large-volume containers: from the laboratory to the field. A case study in Tigray, Ethiopia. *Scientific Reports* 12, Article number: 18933 (2022). Cite this article. The lack of safe drinking water affects communities in low-to-medium-income countries most.

How does solar energy affect biological wastewater treatment? Electromagnetic radiation emitted by the Sun as sunlight encompasses ultraviolet (UV), visible and infrared (IR) spectral components. In biological wastewater treatment, bacteria cannot directly utilize solar energy for metabolic degradation of pollutants, as sunlight exposure introduces operational challenges.

Can solar energy sustain bacterial micro-niche at a high temperature? Now, researchers report a solar-thermal conversion strategy that sustains the bacterial micro-niche at a high temperature ($>30\text{ }^{\circ}\text{C}$) by efficiently converting solar energy into thermal energy. You have full access to this article via your institution.

How do photothermal carriers improve biodegradation efficiency? The photothermal carriers on the surface of the bioreactor convert solar energy into thermal energy, elevating the local temperature. This thermal enhancement improves biological degradation efficiency via increased microbial enzymatic activity and aggregation in biofilms. Figure adapted from ref. 4, Springer Nature Limited.

How do cyanobacteria convert solar energy? Cyanobacteria have the same solar energy converting mechanism as in plants and photosynthesis process and works exactly in the same way (Gao et al., 2012). In photosynthesis, solar energy is converted into energy rich products which are necessary to drive the biochemistry of life.

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An overview of recent works (1998-2002) coupling Advanced Oxidation Process (AOP) and Biological systems for wastewater treatment confirms the beneficial effects of such two ...

Now, researchers report a solar-thermal conversion strategy that sustains the bacterial micro-niche at a high temperature ($>30\text{ }^{\circ}\text{C}$) by efficiently converting solar energy into thermal energy.

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A container for transporting or preserving a biological material includes a bag member (1) that includes a first layer (2) having a peripheral edge (3) and a second layer (4) having a peripheral edge (5).

Abstract Biological photovoltaic (BPV) cells use biological organisms in order to produce clean electrical power by capturing solar energy. In this study, a cyanobacteria based BPV cell was ...

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Biological wastewater treatment (BWT) is critical to safeguard the aqueous environment. However, enzyme activities in microbial metabolism are inhibited by low temperatures, making BWT...

Solar energy has been used to disinfect water for decades, and several efforts have been made to optimise the standard procedure of solar water disinfection (SODIS process).

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As a result, numerous researchers are developing the innovative methods in disposing the waste using renewable energy sources, especially solar energy. An overview of patents ...

Researchers have been fabricating bioinspired solar cells (BISCs) by mimicking the organic and inorganic material properties of the biophotosynthetic structures. Bioinspired photovoltaic ...

The convention methods have several disadvantages; however, biological method attracted much more attention in recent years. The current objectives of the paper are to make a wide ...

Using these methods can help find and identify different bacteria, such as microbes and mushrooms, in kept food (Tonezzer et al. 2022). The usual plastic-based packaging can't be ...

Next, photocatalytic treatment was applied and just 200 kJ m⁻² was required to remove 90 % of micropollutants residues from the effluent. Therefore, the coupling of biological treatment to solar ...

In today's dynamic energy landscape, harnessing sustainable power sources has become more critical than ever. Among the innovative solutions paving the way forward, solar energy ...

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