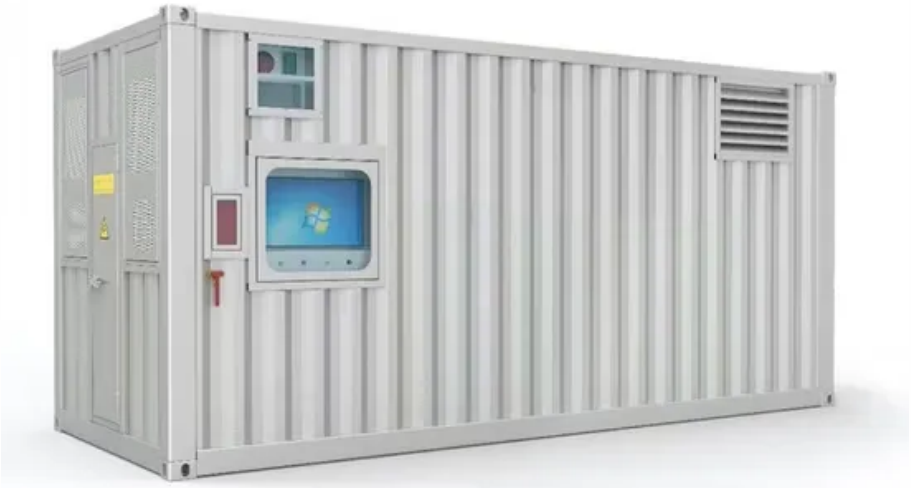
Solar Energy

Solar container substances of fungi



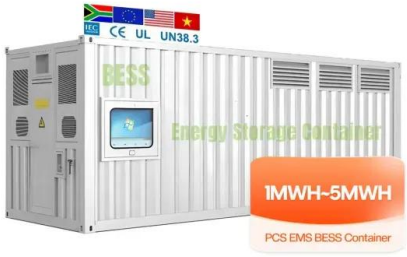
Solar container substances of fungi

Extremophilic microbial communities on photovoltaic panel surfaces: a

Solar panel surfaces can be colonized by microorganisms adapted to desiccation, temperature fluctuations and solar radiation. Although the taxonomic and functional composition of these ...

Solar energy: Fungi in the Sun

In their experiments, a supermarket-purchased shiitake was floated in a beaker of water housed in a solar simulator. Mass change was measured during illumination and the evaporation rate



Protective mechanisms and responses of micro-fungi towards ...

In this review, we focus on the protective machinery deployed by micro-fungi in response to UV-induced DNA damage, and other ecological and biological factors that influence sensitivity ...

Do fungi have solar container substances

Fungi contain flavin-binding blue-light receptors, retinal-containing green-light sensors, known as opsins, and proteins with a linear tetrapyrrole as a chromophore that function as red-light sensors

...

Solar disinfection of fungal spores in water: Kinetics, influencing

Solar disinfection of fungal spores fits well with GInaFiT. The effects of humic acid, pH and temperature on disinfection were evaluated. Solar inactivation of fungal spores was illustrated as ...

Fungal extracellular polymeric substance matrices - Highly ...

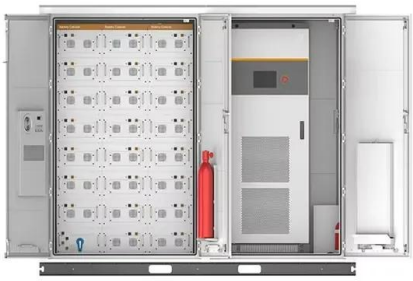
Fungal extracellular polymeric substance matrices - Highly specialized microenvironments that allow fungi to control soil organic matter decomposition reactions

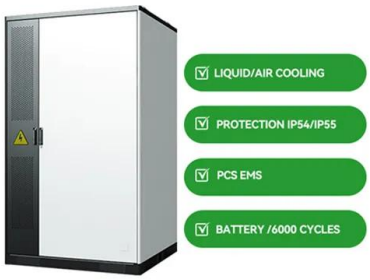
Isolation and characterization of halophilic and halotolerant fungi

The present study explored culturable halophilic and halotolerant fungi from man-made solar salterns in Pattani Province, Thailand. A total of 24 fungal isolates were discovered and ...

Luminescent Solar Concentrators from Food Substances: A Safe ...

Luminescent solar concentrators (LSCs) are efficient devices for harvesting sunlight based on the fluorescentcompounds' properties. They constitute an exciting demonstration platform to engage ...





Solar Water Disinfection in high-volume containers: Are naturally

The optical properties (absorption and scattering) of the substances dissolved in the water were found to have a dramatic impact, since the radiation distribution inside a high-volume container ...

Characterization of fungi from hypersaline environments of solar

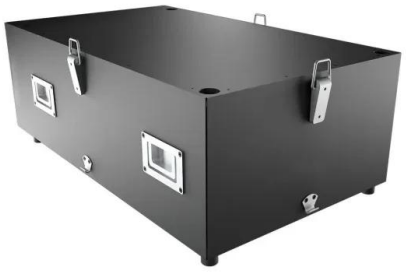
The Cabo Rojo Solar Salterns located on the southwest coast of Puerto Rico are composed of two main ecosystems (i.e., salt ponds and microbial mats). Even though these locations are characterized by ...

Growing Fungi Structures in Space

From a large group of fungi, Ascomycota and Basidiomycota are considered to be more suitable to create mycelium based materials as they can construct larger and more complex organic structures ...

Extremely Halotolerant and Halophilic Fungi Inhabit Brine in Solar

The focus of this review is to present the main species of fungi inhabiting solar salterns around the world and the most suitable model fungi to study adaptations to life at high salinity.



Molecular and physiological effects of environmental UV radiation on

Conidia are specialized structures produced at the end of the asexual life cycle of most filamentous fungi. They are responsible for fungal dispersal and environmental persistence. In ...

Do fungi have solar container substances

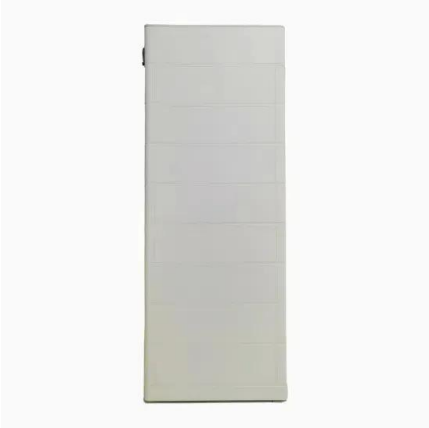
Many fungi are exposed to solar radiation and high temperatures during part of their life cycle. The deleterious effects of solar radiation and heat have led fungi to develop a series of defense.

Application of nanotechnology in food packaging: Pros and Cons

Chitosan is a polysaccharide derived from chitin, found in the cell wall of fungi, exoskeleton of arthropods, and crustaceans. Chitosan is environmentally friendly, non-toxic, and has excellent ...

Protective mechanisms and responses of micro-fungi towards ...

We reviewed a large body of work on the biological and environmental factors that influence the protective mechanisms employed by micro-fungi in response to exposure to solar ...



Solar water disinfection (SODIS) of Escherichia coli, Enterococcus spp

The use of alternative container materials and added oxidants accelerated the inactivation of MS2 coliphage and Escherichia coli and Enterococcus spp. bacteria during solar water disinfection ...

Photovoltaic (PV) Modules (Including Solar Panels) Universal Waste

PV module is defined in California Code of Regulations, title 22, division 4.5, chapter 23, article 1, section 66273.9. PV modules are also commonly referred to as PV panels or solar panels. However, ...

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