

Belarusian Clam solar Container





Overview

Can giant clams turn photons into solar energy?

But they are nowhere near as efficient at turning photons into chemical energy as giant clams. These creatures' fleshy, colorful mantle—the wavy, psychedelic-patterned tissue sandwiched between their shells—could even inspire more efficient solar energy technology. Nautilus Members enjoy an ad-free experience. [Log in](#) or [Join now](#) .

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Are giant clams attractive?

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[Giant Clams, Harvesters of Light, Close to ...](#)

The clam keeps the algae safe, and the algae nourish the clam via their photosynthesis. Translucent cells in the clam's flesh called iridocytes scatter incoming light, which, when it aligns in just the right ...

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[Giant Clams, Harvesters of Light, Close to Extinction](#)

The clam keeps the algae safe, and the algae nourish the clam via their photosynthesis. Translucent cells in the clam's flesh called iridocytes scatter incoming light, ...



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[The Advantages and Applications of Solar Power Containers](#)

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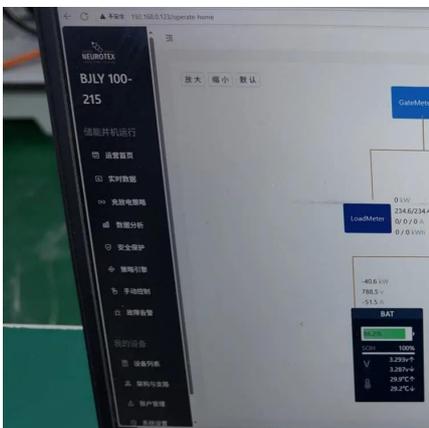
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[Giant Clams Are Models of Solar-Energy Efficiency](#)

A theoretical model for the illumination of photosynthesizing algae in giant clams suggests principles for high efficiency collection of sunlight.

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[How to increase solar energy efficiency with giant clams](#)

By comparison, the same algae species living in corals without the benefit of the clams' light-scattering iridocytes are no more energy efficient than our 20%-efficiency solar ...

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