Solar container substances of cyanobacteria

In conclusion, it can be stated that the use of cyanobacteria to harness solar energy for the production of different types of bioenergy might represent a simpler and cleaner system for the ...

It turns out that at the phylum level, Proteobacteria, Firmicutes, Bacteroidetes, Cyanobacteria, and Actinobacteria were the dominant bacteria in the growth environment of ...

Employment of cyanobacteria in biomineralization of carbon dioxide by calcium carbonate precipitation offers novel and self-sustaining strategies for point-source carbon capture and ...

As solar cell factories, cyanobacteria generate value-added compounds directly from CO 2 and sunlight, opening the field of photobiotechnology for carbon-neutral or carbon-negative ...

Recent developments in the research on cyanobacterial products have drawn increasing attention, especially in the production and application of phycocyanin, which has shown ...

Cyanobacteria, ancient photosynthetic prokaryotes capable of directly converting CO2 and solar energy into various chemicals through photosynthesis, have drawn great attention as a ...

Abstract. On the basis of photobiological, evolutionary, paleontological, paleoenvironmental and physiological arguments, a time course for the role of solar ultraviolet radiation (UVR, wavelengths ...

Cyanobacteria are photoautotrophic prokaryotes that perform oxygenic photosynthesis through photo oxidation of water. They have been widely used as model organisms for studying ...

An in-depth study of the radiation attenuation caused by these substances is conducted to validate a predictive model that estimates the required solar exposure time based on the average ...

Cyanobacteria are photosynthetic prokaryotes and major contributors to global biogeochemical cycles. They possess powerful biological activity, high adaptability to extreme ...

The remarkable ability of cyanobacteria to produce biomass that is both sustainable and environmentally friendly has attracted considerable attention in recent years, largely due to its wide ...

Cyanobacteria and microalgae contain various phytochemicals, including bioactive components in the form of secondary metabolites, namely flavonoids, phenolic acids, terpenoids, and ...

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The outbreak of cyanobacteria bloom is affected by various environmental factors, among which light dose is an essential factor. In this study, the growth changes of cyanobacteria under different ...

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