

Experimental planting of medicinal herbs under photovoltaic panels

Can solar energy be used to produce medicinal herbs?

Mehta et al. (2017) analyzed the drying systems with the solar and open sun drying systems. The quality parameters of the various dried products like vitamins (A,C), polyphenol, and flavonoids were higher with the solar drying system. The application of solar energy in the herbal industry for the production of medicinal herbs is not yet realized.

Do medicinal plants use solar drying?

Medicinal plants information and their usage in therapeutic purposes. Thin layer drying of leaves in solar drying is reviewed. Exergy analysis of the overall solar drying process is presented. Use of thermal energy storage in solar drying is reviewed and presented. Economic analysis for solar drying of herbs are assessed.

Can thermal energy storage be used in solar drying of herbs?

Use of thermal energy storage in solar drying is reviewed and presented. Economic analysis for solar drying of herbs are assessed. Health consciousness has been increasing gradually in the entire world during the last three decades. Naturally and artificially produced medicines are consumed by the people for curing short and long-term diseases.

Can solar dryers dry medicinal herbs?

Drying offers improved shelf life, reduced density, and low transportation cost. In recent years, the application of solar dryers for drying medicinal herbs has been explored. In this paper, initially different solar drying methods and dryers, and the factors affecting the performance of them are reviewed and presented.

Do photovoltaic panels improve aloe plant growth?

The results indicate that the intermittent shade and microclimate generated by the photovoltaic panels in the corridor zone between panel rows could contribute to minimizing the impact of stress caused by high solar radiation and high temperature, improving the growth of the aloe plants.

Does solar drying a sweet basil plant produce volatile organic compounds?

Shalaby et al. (2020) investigated the solar drying process of sweet basil leaves and concluded that the volatile organic compounds were found higher than those in the open sun-dried samples. Mehta et al. (2017) analyzed the drying systems with the solar and open sun drying systems.

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