

What are the multifunctional effects of a sunscreen formulation?

In summary, the developed sunscreen formulation added to the extracts under study showed multifunctional effects since it improved the sunscreen action protecting the skin against external aggressors and UV radiation, and the acceptance of and adhesion to these cosmetics due to sensory improvement.

Why are sunscreen products becoming of utmost importance in recent times?

These alarming numbers explain why sunscreen products are becoming of utmost importance in recent times. Organic and inorganic UV filters (hereafter UVfs) are the main means of UV protection and are components of many personal-care products.

Is conventional solar power a green energy success?

CONVENTIONAL SOLAR POWER --mostly based on silicon--is already a green energy success, supplying roughly 3% of all electricity on the planet. It's the biggest new source of power being added to the grid, with more than 200 gigawatts coming online annually, enough to power 150 million homes.

What is a sunscreen development protocol?

Thus, the sunscreen development protocol includes the correct selection of organic and inorganic UV filters that must be incorporated into an appropriate vehicle that promotes the interaction between skin and formulation without altering the sensorial properties.

What makes a good sunscreen?

The ideal sunscreen should contain a combination of filters against UVB (e.g., PABA derivatives or cinnamates), filters with UVA2 absorption (e.g., avobenzone) as well as filters that protect against UVA1 wavelengths, which have only recently started to be added to sunscreens in Europe [17-19].

Can natural extracts improve sunscreen performance?

Thus, the addition of natural extracts to sunscreen formulations can promote the deposition of UV filters on the skin surface in a homogeneous way, with improved performance (Chorilli et al., 2009, Infante et al., 2021).

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In this study, we report the synthesis and characterization of hybrid materials (hereafter ZEOfilters) obtained by the encapsulation of UVfs into zeolites. Among all, two of ...

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