

In this paper, we designed and fabricated an active self-cleaning surface system by using a single droplet to systematically clean the surface contaminants. The system utilized patterned...

Experimental results demonstrate the system's efficiency in removing particles while consuming minimal energy, making it particularly suitable for arid regions where water-based cleaning methods are ...

This article is intended to develop an automatic self-cleaning mechanism to solve this problem, which seeks to increase panel efficiency, monitor and control cell temperature, and provide a more affordable ...

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This article briefly overviews innovations and methods for self-cleaning solar panels. The solution combines the passive self-cleaning surface with other physical effects, such as electrical, mechanical vibrational, ...

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