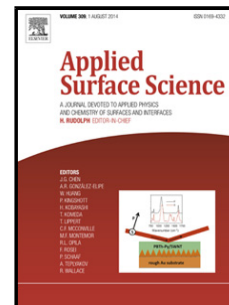


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Title: Extended short wavelength spectral response of organic/(silver nanoparticles/Si nanoholes nanocomposite films) hybrid solar cells due to localized surface plasmon resonance

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Highlights:

.The silver nanoparticles(AgNPs) / Si nanoholes(SiNHs) nanocomposite films were fabricated.

.An enhancement of total absorption in the AgNPs / SiNHs nanocomposite films at the short wavelength was exhibited

.Prototype solar cell device with AgNPs exhibits an increase of the power conversion efficiency by a factor of 2~3.

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