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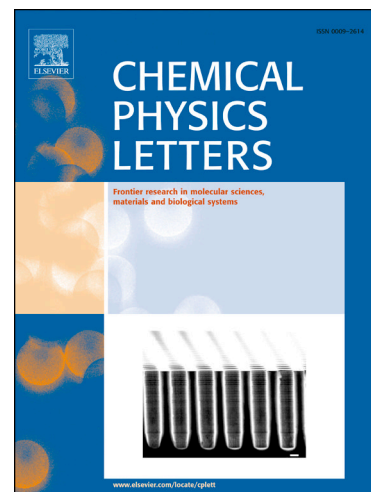
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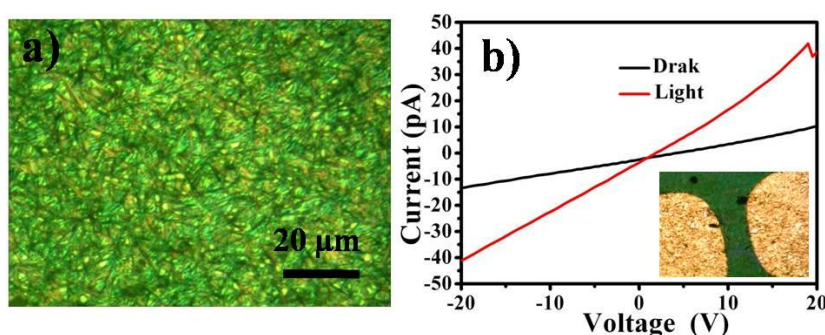


# Fabrication of nickel phthalocyanine free-standing film on ionic liquid surface and photoelectrical response

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Free-standing film of nickel phthalocyanine were fabricated on the surface of 1-(2-hydroxyethyl)-3-methylimidazolium tetrafluoroborate by a physical vapor deposition method. Moreover, The device based on the as-obtained NiPc film shows good photoelectrical property, high stability and high photosensitivity.

## Highlights

A free-standing film of nickel phthalocyanine (NiPc) was successfully prepared on ionic liquid surface via a physical vapor deposition method.

The good transferability of the film make it can be easily transferred onto any substrate for further device applications.

The device based on these films shows good photoelectrical property, high stability and high photosensitivity.

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