

Accepted Manuscript

Title: Facile preparation of titanium dioxide nano-capsule arrays used as photo-anode for dye sensitized solar cells

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PII: S0169-4332(15)00933-2
DOI: <http://dx.doi.org/doi:10.1016/j.apsusc.2015.04.083>
Reference: APSUSC 30176

To appear in: *APSUSC*

Received date: 5-3-2015
Revised date: 8-4-2015
Accepted date: 11-4-2015

Please cite this article as: P. Su, H. Li, J. Wang, J. Wu, B. Zhao, F. Wang, Facile preparation of titanium dioxide nano-capsule arrays used as photo-anode for dye sensitized solar cells, *Applied Surface Science* (2015), <http://dx.doi.org/10.1016/j.apsusc.2015.04.083>

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Highlights

1. TiO₂ nanoparticles have been introduced into TiO₂ nanotube using a facile liquid phase deposition method at low temperature in atmosphere.
2. Dye solar cells have been assembled on flexible titanium substrate.
3. The incident photo-electron conversion efficiency has been improved 76% compared with pure TiO₂ nanotube arrays.

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