

## Accepted Manuscript

Title: Synthesis of Vertically Aligned Carbon Nanotubes on Carbon Fiber

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PII: S0169-4332(13)00282-1  
DOI: doi:10.1016/j.apsusc.2013.01.207  
Reference: APSUSC 25142

To appear in: *APSUSC*

Received date: 29-11-2012  
Revised date: 30-1-2013  
Accepted date: 31-1-2013

Please cite this article as: S. Rahmanian, A.R. Suraya, R. Zahari, E.S. Zainudin, Synthesis of Vertically Aligned Carbon Nanotubes on Carbon Fiber, *Applied Surface Science* (2010), doi:10.1016/j.apsusc.2013.01.207

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## Synthesis of Vertically Aligned Carbon Nanotubes on Carbon Fiber

### Highlights

- Vertically aligned carbon nanotubes were synthesized on the surface of carbon fiber.
- Compact and adhesive coating of catalyst on carbon fiber was achieved without the application of additional pre-deposited substrate.
- Acid treatment, ultrasonic assisted catalyst dip coating and calcination were the main steps which provided appropriate catalyst coating.
- Two types of solvent, acetone and ethanol, were examined in dip coating step and acetone was found more effective to produce dense catalyst coating.

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