



**Synthesis of MNO<sub>2</sub> Carbon nanotubes Catalyst with enhanced oxygen reduction reaction for polymer Electrolyte membrane fuel cell**

**R. Prasanth**

**UNESCO Madanjeet School of Green Energy Technology, Pondicherry University, India, 605014,**

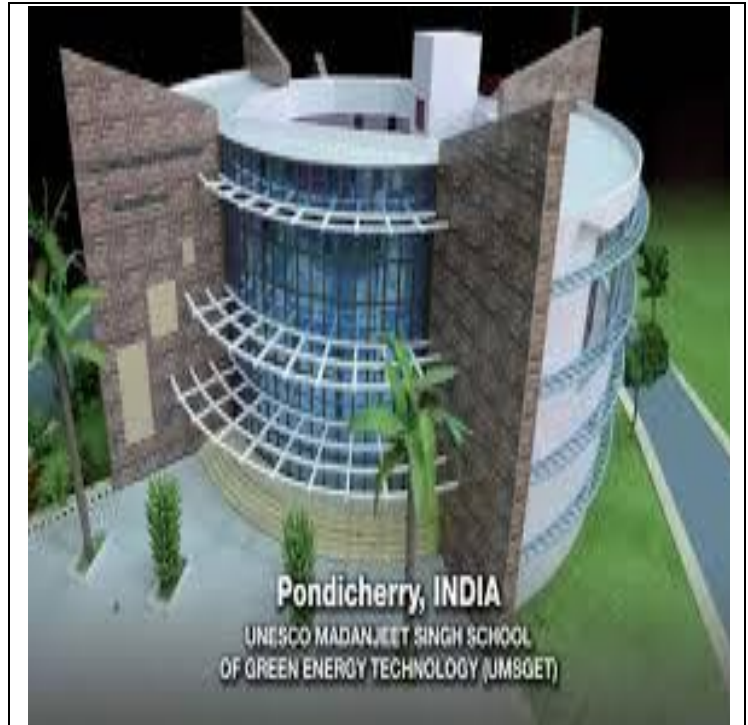
Boiling is a central phenomenon in technological and industrial applications as diverse as thermal management in electronics, power generation and chemical processing. Nanoscale surface modification has great potential to enhance boiling heat transfer/critical flux for advanced thermal-hydraulic. We developed a simple electro-nano processing technique to fabricate nanotube arrays with high surface area with superhydrophilic nature. Capillary wicking is a unique property of tubular structure that enable the liquid spread over the heating surface. The surface parameters can control the capillary effect

Dr. R. Prasanth has completed his PhD from Eindhoven University of Technology, The Netherlands and postdoctoral studies from Peter Debye Institute, Utrecht University. He has published more than 25 papers in reputed journals and presented more than 40 papers in International conferences.

Dr. Jothi Prakash has completed his Ph.D from

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Super hydrophilic nanotube surfaces for heat flux enhancement

Capillary wicking effect of a Cr-sputtered superhydrophilic surface on enhancement of pool boiling critical heat flux



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