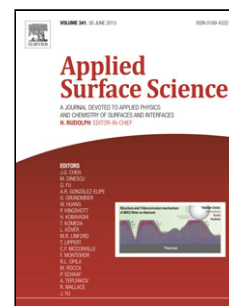


Accepted Manuscript

Title: Graphene wrapped Copper Phthalocyanine nanotube:
Enhanced photocatalytic activity for industrial waste water
treatment

Authors: Moumita Mukherjee, Uttam Kumar Ghorai,
Madhupriya Samanta, Angshuman Santra, Gour P. Das,
Kalyan K. Chattopadhyay



PII: S0169-4332(17)30245-3
DOI: <http://dx.doi.org/doi:10.1016/j.apsusc.2017.01.222>
Reference: APSUSC 35017

To appear in: *APSUSC*

Received date: 15-10-2016
Revised date: 13-1-2017
Accepted date: 21-1-2017

Please cite this article as: Moumita Mukherjee, Uttam Kumar Ghorai, Madhupriya Samanta, Angshuman Santra, Gour P.Das, Kalyan K.Chattopadhyay, Graphene wrapped Copper Phthalocyanine nanotube: Enhanced photocatalytic activity for industrial waste water treatment, Applied Surface Science <http://dx.doi.org/10.1016/j.apsusc.2017.01.222>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Graphene wrapped Copper Phthalocyanine nanotube: Enhanced
photocatalytic activity for industrial waste water treatment**

Moumita Mukherjee^a, Uttam Kumar Ghorai^b, Madhupriya Samanta^c, Angshuman Santra^b

Gour P. Das^{*a} and Kalyan K. Chattopadhyay^{*c}

*^aDepartment of Materials Science, Indian Association for the Cultivation of Science,
Jadavpur, Kolkata - 700032, India*

*^bDepartment of Industrial Chemistry & Swami Vivekananda Research centre, Ramakrishna
Mission Vidyamandira, Belur Math, Howrah-711202*

*^cSchool of Materials Science & Nanotechnology, Jadavpur University, Kolkata-700032,
India*

**E-mail address: kalyan_chattopadhyay@yahoo.com (Kalyan K. Chattopadhyay) and
msgpd@iacs.res.in (Gour P. Das)*

Download English Version:

<https://daneshyari.com/en/article/5350131>

Download Persian Version:

<https://daneshyari.com/article/5350131>

[Daneshyari.com](https://daneshyari.com)