



RESEARCH NUGGET

Material Advantage at FIU

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SAY CHEESE! TO TURN GRAPHITE OXIDE TO GRAPHENE



Graphene is considered as today's one of the most technologically important material.

Graphene synthesis processes include Exfoliation & Cleavage, CVD and PECVD, Thermal Decomposition, Chemical Reduction etc., involving usage of toxic chemicals, high temperature, precision techniques.

A recent process by Prof. J. Huang and his group in Northwestern University, USA has shown synthesis of fluffy graphene films from graphite oxide, by *CLICK* of a simple camera flash.

The discovery is expected to revolutionize graphene production and its application in tomorrows' electronics.

A video clipping of the process is available on http://www.youtube.com/watch?v=dKT2vzfUuEs&feature=player_embedded

Sources:

1. <http://ceramics.org/ceramictechtoday/materials-innovations/say-cheese-to-turn-graphite-to-graphene/>
2. Laura J. Cote, Rodolfo Cruz-Silva,† and Jiaying Huang, Flash Reduction and Patterning of graphite Oxide and Its Polymer Composite, J. Am. Chem. Soc., 2009, 131, 11027-32.

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