

## **Synthetic Graphene**

**Karl Coleman**

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### **Professor Karl Coleman Biography**

is a Professor of Chemistry at Durham University UK and the founder and Chief Scientific Officer of Applied Graphene Materials.

His work has been recognised with numerous awards, including the international Royal Society of Chemistry Entrepreneur of the Year Award 2011 for his development of intellectual property around the production of graphene, and the Times Higher Education Research and Innovation Award 2012. Karl established Applied Graphene Materials in 2010, which is now listed on the FTSE AIM index.

### **Abstract:**

Graphene has generated much interest owing to its exceptional electronic properties and high mechanical strength. This has enabled new types of electronic devices and composite materials to be envisaged. The main problem is the availability of the material and the difficulties associated with its synthesis and dispersion. Here I will discuss the synthesis of graphene using a new simple, convenient and scalable 'bottom-up' to produce few-layer graphene platelets and discuss dispersion of graphene in variety of matrices for applications ranging from paints and coatings to composite materials.

Links:

### **Prof. Karl Coleman Home Page**

<http://www.dur.ac.uk/chemistry/staff/profile/?id=1329>

### **Applied Graphene Materials**

<http://www.appliedgraphenematerials.com>