Challenges in Graphene Integration

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Many industrial applications are predicted for the various graphene materials due to their extraordinary properties. However, these applications have not yet materialised since there are many challenges that have to be overcome while keeping in mind that many years are required for the introduction of a new advanced material into the market place [1].

Graphene covers a family of materials and each material will have different integration requirements and time to market. Challenges in the wafer scale integration of CVD graphene films into the semiconductor industry will be covered as well as challenges for introducing bulk graphene (graphene oxide, etc.) into composite applications.

Finally, some recent progress in certain graphene applications will also be covered such as in flexible electronics [2], OLEDs [3] and electronics [4,5] where a trend moving to functional prototypes has been observed.

References