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Graphene Wafer Technology for Sensors and Nanoelectronics Device Applications

There have been extensive interest on Graphene as the enabling technology for next generation nanoelectronics. At present, large corporation is looking into developing the technology to synthesise graphene on a large area and incorporating them into semiconductor device platform to enable the development of graphene nanoelectronics, sensors and devices. This is important as it will subsequently lead to the volume production of these graphene semiconductors, sensors and devices to the market. In view of that, this talk will highlight the research and development activities that have been performed in order to generate manufacturing-ready graphene-synthesis processes so that the feasibility of incorporating graphene as an active material for applications in semiconductors, sensors and devices in a production-ready environment can be demonstrated.