

Graphene/NanoCarbon Materials and Its Applications

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Abstract

In this talk, Dr. Adisorn Tuantranont will present innovative graphene/carbon nanomaterials and their composites based on advanced but practical and efficient processes including chemical vapor deposition (CVD), solution route synthesis and electrolytic exfoliation for potential industrial applications. The key research works include new productions strategies combining several approaches including CVD and various chemical routes to synthesize novel graphene structures with 3D structures and its composites with other nanocarbons, polymers and metal oxides in unique configurations that will provide high performances for various sensing applications including food safety and medical sensors and energy applications including Energy Storage System (ESS) eg. supercapacitor and battery.

Keywords: Graphene, Carbon, Sensor, Battery, Supercapacitor.