

Producing functionalised graphene

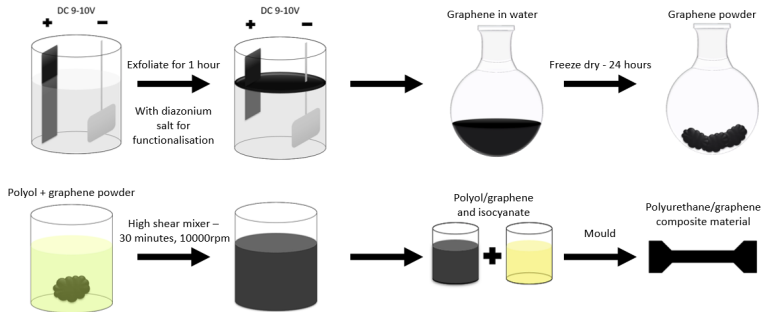
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Outline

- ▶ Overview of this project
- ▶ Method for producing functionalised graphene
- ▶ Results
- ▶ Current challenges
- ▶ Thoughts on open Lab Journals

Production of functionalised graphene | Oxidative exfoliation of graphene



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In-situ synthesis of diazonium-compound

Method

Progress

The new setup can produce ~ 3 g/h.

Nitrogen is incorporated in the flakes (XPS).

We would like to monitor the C_{diaz} during exfoliation (UV-Vis)

Ready to produce several grams for testing (Radisurf, Newtec, SP Group, Chemical Engineers (AU))

Interested in other functional groups