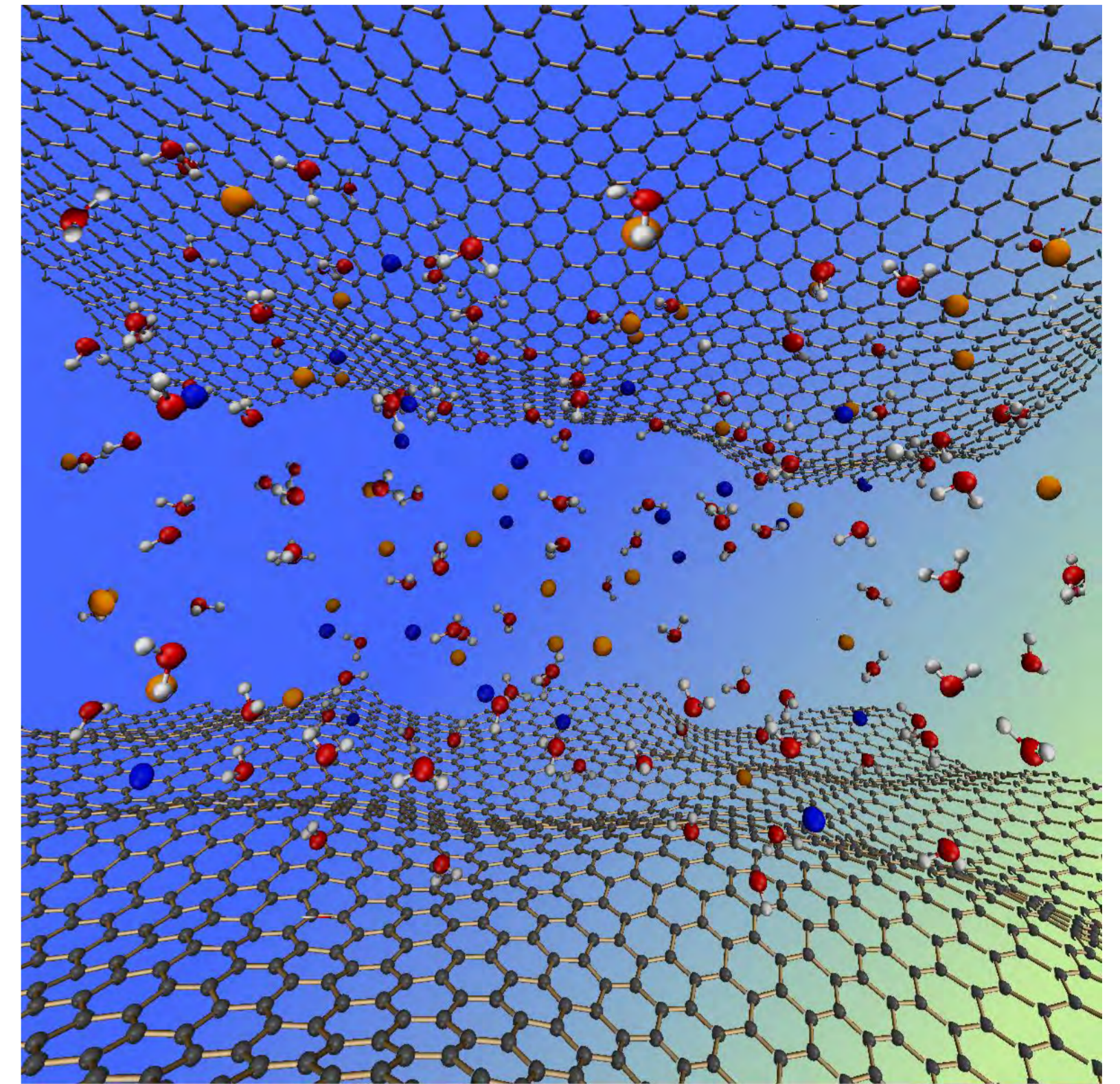


Laboratory for NanoCarbons & Soft Materials

Our mission is to engineer high value-added graphene-based products and help create new business opportunities in Australia. We accomplish through developing scalable and cost-effective proprietary techniques to convert graphite into graphene which is then assembled into novel materials.



Highlights

- Among three Australian material scientists named in Thomson Reuters “2014 World's Most Influential Scientific Minds”
- 9 years of graphene R&D
- Industrial application-oriented R&D
- Extensive multidisciplinary collaboration network
- 4 platform patents of graphene materials
- Publications *in Science* and *Nature* journals

Key Expertise

- Scalable production of solution processable graphene from graphite
- Production of graphene hydrogels and aerogels with exceptional mechanical and electrical properties
- Production and applications of graphene-based composites
- Multiscale analysis of the structure and properties of graphene-based materials
- Quality control of graphene-based materials
- Applications of graphene in energy storage, high-performance composites, biomedical devices, water purification and flexible electronics
- Feasibility analysis of the industrialization of graphene materials

Research Facilities

- Chemical and electrochemical synthesis facilities for graphene oxide from graphite
- Synthesis facilities for solution processable graphene, graphene membranes and graphene sponge
- Electrochemical workstations
- Particle sizer and Zeta potential analyser
- Equipment for the assembly and testing of supercapacitors and batteries
- Membrane separation fabrication and testing facilities
- Fabrication and testing of soft pressure and strain sensors
- Access to a broad range of materials structure and properties characterization facilities

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