



UNSW
SYDNEY



Sprayable and Paintable Solar Cells and Tandem Solar Cells

Research into high-efficiency silicon solar cells, tandem solar cells, perovskite solar cells, manufacturing cost analysis and integration of photovoltaics for a wide range of applications, e.g. buildings, portable devices and vehicles.

Competitive advantage

World records for energy conversion efficiencies of

- large area perovskite solar cells (2016)
- large area monolithic perovskite/Si(homo-junction) tandem solar cells (2018)
- GaAsP/Si monolithic tandem solar cells

Successful outcomes

- Hermetic Encapsulated Perovskite Solar Cells for Thermally Insulated Glazings

Capabilities and facilities

- Fabrication and characterisation of high efficiency and large area perovskite solar cells

Our partners

- Suntech Power
- Trina Solar
- Greatcell Solar Materials
- Microquanta

More Information

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