



Joint Institution Lecture Series

Thin Film PV Offers a green future

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Global PV capacity has been rapidly growing in recent years. While most of the installations are based on wafer-based silicon technologies, there are several thin films technologies available that are mature and efficient enough to compete in the market.

Thin film PV technologies, generally offer a much wider flexibility in aesthetic designing, choice of substrates and module sizes, as well as unlocking new applications through the use of flexible and light-weight substrates.

Thin film PV with appropriate properties can also be combined with Si for the next generation high-performance tandem solar cells. The uptake in expected future markets at TW-scale of photovoltaics demands stable, abundant, non-toxic materials similar to silicon.

In this regards, the current commercialized thin film technologies such as CdTe or Cu(In,Ga)Se₂ (CIGS) is expected to be compromised by their toxicity or the scarcity of the constituting elements. As a consequence, intense research efforts have been put into stable and green kesterite.

In this presentation, A/Prof Hao will talk about the applications, challenges and progress of green kesterite solar cells.

About the Speaker:

Dr Xiaojing Hao is an Associate Professor in the School of Photovoltaic and Renewable Energy Engineering of UNSW. She is a world-leading researcher in the field of earth-abundant and environmentally-friendly kesterite photovoltaics.

Dr Hao has focused her research on low-cost high-efficiency thin film and tandem solar cells, researching on various compound semiconductor PV materials particularly those with earth-abundant and environmentally-friendly constituent.

VENUE

Harricks Auditorium
8 Thomas Street
Chatswood NSW 2068

DATE & TIME

Thursday 14th March 2019
5.30 pm for a 6.00 pm start

Light refreshments will be provided prior to the presentation.
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TICKETS (incl. GST)

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Students: Free

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