

Session Program

30 November 2025 to 5 December 2025



AIP summer meeting 2025

Focus Session: Emerging Materials and Physics for Energy Conversion

Building 40, Hope Theatre
University of Wollongong Northfields Avenue Wollongong NSW 2522

Thursday 4 December

13:40

Focus Session: Emerging Materials and Physics for Energy Conversion

Session |

Location: Building 40, Hope Theatre, University of Wollongong Northfields Avenue Wollongong NSW 2522 |

Conveners: Dehong Yu, Gunther Andersson

13:40–14:10

Trends and opportunities in composite thermoelectrics

Speaker

Meng Li

14:10–14:40

Organic ionic plastic crystals with colossal barocaloric effects for sustainable refrigeration

Speaker

Prof. Jenny Pringle

14:40–15:10

Thermo-Electro-Magnetic Coupling in Functional Composite Materials

Speaker

Kyle Portwin

15:10

16:10

Focus Session: Emerging Materials and Physics for Energy Conversion: Focus Session: Emerging Materials and Physics for Energy Conversion

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Conveners: Gunther Andersson, Dehong Yu

16:10–16:40

Adsorption of Water on Cocatalyst Surfaces for Photocatalytic Water Splitting

Speaker

Abdulaziz Almutairi

16:40–17:10

Tuning Terahertz Vibrations for Thermal Energy Management

Speaker

Caleb Stamper

17:10–17:40

Development of Photocatalysts for Water Splitting through Modifying their Surface Structure

Speaker

Gunther Andersson

18:10