2025 International solar fuels early-career researcher conference
Draft programme

1 September 2025

12:30	**Registration & icebreaker** Lunch
13:50	**Day 1 welcome** Chen Han *University of Cambridge, UK*
	SESSION 1 (Session chair: Ewan McQueen)
14:00	**Interface engineering of cerium dioxide enables CO2 photoreduction to green methanol** Subhajit Chakraborty, Sebastian C. Peter *Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India*
14:15	**Light-Driven CO2 Reduction with a Heptacoordinated Iron(II) Polypyridine Complex** Federico Droghetti *University of Ferrara, Italy*
14:30	**Photocatalyst sheet performance under elevated UV intensities and temperatures** Talib Rahman; Gregory Metha *University of Adelaide, Australia*
14:45	**Photoelectrochemical biomass valorisation using an integrated PV-PEC approach** Irene Carrai, Raffaello Mazzaro *Alma Mater Studiorum University of Bologna, Italy*
15:00	**Size effect of Au NPs growth on a perylene-functionalised COF for light driven CO2 to Syngas conversion** Roberto Gonzalez Gomez *University of Galway, Ireland*
15:15	**Ferroelectric–photocatalyst nanocomposites for enhanced solar fuel generation** Max Court *Queen Mary University of London, United Kingdom*
15:30	Refreshments
	SESSION 2 (Session chair: Nathaniel Hill)
16:00	**Enhancing Water Splitting Photoanodes with Plasmonic Metal Nanoparticles** Brian Tam, Andreas Kafizas *Imperial College London, United Kingdom*
16.15	**A Ni based OER photoanode for CO2RR photoelectrochemical stacks** Aureliano Macili *Autonomous University of Barcelona, Spain*
16.30	**Engineering Charge Transfer Pathway in Z-scheme FeOOH/PCN towards Photocatalytic CO2 Reduction** Shangcong Sun; Bing Liu *SINOPEC Research Institute of Petroleum Processing, China*
16.45	**Selective Photoelectrochemical reforming of Biomass Intermediates Catalyzed by In-Situ Fabricated C3N3 Electrode on Cu Foil** Muhammad Ashraf *University of British Columbia, Canada*
17:00	**Photoaccumulation of Long-Lived Reactive Electrons in Metal-Organic Frameworks: Unveiling Structure-Activity Relationships for Dark Photocatalysis** Shilin Yao *Imperial College London, United Kingdom*
17:15	**Probing in situ conductivity changes under the acidic water oxidation conditions using the interdigitated electrodes** Guangmeimei Yang *Imperial College London, United Kingdom*
17:30	**Poster session** (odd numbers 17:30-18:30, even numbers 18:30-19:30) Refreshments
19:30	Close of formal sessions
	Evening social events

2 September 2025

08:55	**Day 2 welcome**
	SESSION 3 (Session chair: Cathal Burns)
09:00	**Engineering Microbe-Material Interface to produce Solar Chemicals and Fuels from CO2** Muhammed Rishan *Northumbria University Newcastle, United Kingdom*
09:15	**Expanding solar spectrum utilisation of thylakoid membranes with organic dyes** Lan Nan University of Cambridge, *United Kingdom*
09:30	**O2-Tolerant Electro- and Photocatalytic CO2-to-CO Conversion by carbon monoxide dehydrogenases operating in Deep Eutectic solvents** Leonard Olivotto *DCM/Université Grenoble Alpes, France*
09:45	**Electrochemical wiring of cyanobacteria to anodes using polymers towards biohybrid devices for solar-chemical production** Rachel Egan *University of Cambridge, United Kingdom*
10:00	**Hybrid artificial and natural light-driven pilot plant for photocatalytic water-splitting** Ahmed Abbas, Konstantinos Kakosimos *Texas A&M University at Qatar, Qatar*
10:15	**Scalable solar-driven reforming of alcohol feedstock to H2 using Ni/Zn3In2S6 photocatalyst** Denny Gunawan *University of New South Wales, Australia*
10:30	Refreshments
	SESSION 4 (Session chair: Chen Han)
11:00	**TBA** Vincent Artero *Université Grenoble Alpes, France*
11:20	**TBA** Elizabeth Gibson *University of Newcastle, UK*
	SESSION 5 (Session chair: Robert Bowles)
11:40	**Career panel discussion** Chair: Robert Bowles, *Royal Society of Chemistry* Panellists: Vincent Artero, *Université Grenoble Alpes, France;* Emma Eley, *Royal Society of Chemistry, UK;* Elizabeth Gibson, *University of Newcastle, UK*
12:30	Close Lunch