
**9th UK Solar Fuels Network Symposium (Virtual)**

**9th September 2021**

**Please use the following link to join the webinar:**

[**https://liverpool-ac-uk.zoom.us/j/91574183302?pwd=UzNTcy9Db3c1Tm94V0hWOTZnOW1hZz09**](https://liverpool-ac-uk.zoom.us/j/91574183302?pwd=UzNTcy9Db3c1Tm94V0hWOTZnOW1hZz09)

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| **09:30** | **Welcome by Prof. Alex Cowan** |
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| **Session 1 Chair: Dr Sebastian Sprick** |
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| **09:35** | **Dr Michael Sachs**, Imperial College London, UK.*Carrier localisation in transition metal oxides with extended visible light absorption* |
| **10:00** | **Dr Andrew W. Prentice**, University College London, UK.*Hydrogen evolution by polymer photocatalysts; a possible photocatalytic cycle* |
| **10:25** | **Angelica Maragno**, CEA, DES, ISEC, DMRC, Univ. Montpellier, Marcoule, France.*A 3D printed device coupled with a tandem solar cell for high-efficiency hydrogen production* |
| **10:50** | **Flash poster presentations** |
| **11:10** | **Break/Posters**[**https://www.wonder.me/r?id=ab1e411d-d46b-491e-ab77-f7d1066612ac**](https://www.wonder.me/r?id=ab1e411d-d46b-491e-ab77-f7d1066612ac) |
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| **Session 2 Chair: Prof. Alex Cowan** |
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| **11:30** | **Invited speaker: Dr Libby Gibson,** Newcastle University, UK.*Hydrogen evolution and CO2 reduction with supramolecular photocatalysts integrated into photoelectrocatalytic devices* |
| **12:00** | **Dr Virgil Andrei**, University of Cambridge, UK.*Rational design of photoelectrochemical perovskite-BiVO4 tandem devices for selective syngas production* |
| **12:25** | **Invited speaker: Prof. Iain McCulloch**,University of Oxford, UK.*Organic nanoparticle optimisation for the hydrogen evolution reaction from water* |
| **12:55** | **Summary** |
| **1:00** | **Lunch break/Posters**[**https://www.wonder.me/r?id=ab1e411d-d46b-491e-ab77-f7d1066612ac**](https://www.wonder.me/r?id=ab1e411d-d46b-491e-ab77-f7d1066612ac) |


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[**https://liverpool-ac-uk.zoom.us/j/96821756548?pwd=U3psZG5ZTzAwdmpwRnlRSFdUMkFrQT09**](https://liverpool-ac-uk.zoom.us/j/96821756548?pwd=U3psZG5ZTzAwdmpwRnlRSFdUMkFrQT09)

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| **Public afternoon session Chair: Prof. Erwin Reisner** |
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| **2:00** | **Welcome and introduction** |
| **2:10** | **Prof. James Durrant**,Imperial College London, UK.*Solar Fuels and Mission Innovation Challenge 5: Sunlight Conversion.* |
| **2:30** | **Dr Pau Farràs Costa**, SEAFUEL*SEAFUEL, demonstration of a green hydrogen production plant powered by solar energy* |
| **2:50** | **Prof. Bert Weckhuysen**, SUNERGY*Using the Sun and its Energy to Fuel a Circular Society: Some Background on the SUNERGY Initiative* |
| **3:10** | **Panel discussion** |
| **3:40** | **Summary and close** |

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| **Flash talks and poster presentations** |
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| **Poster** | **Presenter** | **Title** |
| 1 | **Afridi Zamader** (Uppsala University, Sweden) | *Synthesis of bio-inspired electrode materials for hydrogen evolution* |
| 2 | **Andrew Bagnall** (Université Grenoble Alpes, France) | *Molecular-engineered electrodes incorporating novel derivatives of a hydrogen-evolving cobalt macrocyclic complex* |
| 3 | **Bhavin Siritanaratkul** (University of Liverpool, UK) | *Solar-to-chemicals via NADPH regeneration using an enzyme cascade electrode* |
| 4 | **Carlota Bozal-Ginesta** (Imperial College London, UK) | *Active state kinetics in photo- and electro-catalytic schemes for water splitting* |
| 5 | **Catherine Eagle** (University of Liverpool, UK) | *The electrocatalytic reduction of low concentration CO2* |
| 6 | **Daniel McDowall** (University of Glasgow, UK) | *Controlling photocatalytic activity by self-assembly* |
| 7 | **Dora Alicia Garcia Osorio** (University of Liverpool, UK) | *Hybrid antimony selenide-NiP molecular catalyst photocathode for hydrogen evolution* |
| 8 | **Hongmei Chen** (University of Liverpool, UK) | *Covalent triazine-based frameworks core-shell structure for enhanced visible light-driven photocatalytic hydrogen evolution* |
| 9 | **Joshua Karlson** (Newcastle University, UK) | *Photoelectrocatalytic CO2 reduction with ruthenium/iridium-rhenium based photocatalysts – Assessing the challenges of charge separation at the semiconductor surface* |
| 10 | **Kenya Mora** (Universidad Autónoma de Chihuahua, Mexico) | *Synthesis, characterization and DFT studies of an oxide-derived copper (OD-Cu) doped with SnZn for CO2 electroreduction.* |
| 11 | **Soranyel Gonzalez Carrero** (Imperial College London, UK) | *Charge generation in organic semiconductor heterojunction nanoparticles for solar-driven hydrogen evolution* |



**Early Career Researcher Event (Virtual)**

**10th September 2021**

**Please use the following link to join the webinar:**

[**https://liverpool-ac-uk.zoom.us/j/99827554218?pwd=VmkxZGIrQTdzcmNkRFIrTHNOTTM0dz09**](https://liverpool-ac-uk.zoom.us/j/99827554218?pwd=VmkxZGIrQTdzcmNkRFIrTHNOTTM0dz09)

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| **09:30** | **Welcome by Dr Sebastian Sprick** |
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| **Session 1** |
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| **09:40** | **Invited speaker: Dr Mark Symes**,University of Glasgow, UK.*Decoupled electrolysis for solar-driven water splitting* |
| **10:05** | **Michael G. Allan**, Swansea University, UK.*Solvent-controlled O2 diffusion enables air-tolerant solar hydrogen generation* |
| **10:20** | **Francesca Greenwell**, University of Liverpool, UK.*Noncovalent immobilization of a nickel cyclam catalyst on carbon electrodes for CO2 reduction using aqueous electrolyte* |
| **10:35** | **Dr Pablo Jimenéz-Calvo**, University of Paris Saclay, France.*A compact photo-cell reactor for online H2 photoproduction: a case study on Schottky junctions* |
| **10:50** | **Break** |
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| **Session 2** |
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| **11:10** | **Invited speaker: Dr Salvador Eslava,** Imperial College London, UK.*Developing and extending the family of semiconductors for solar fuels* |
| **11:35** | **Dr Yuanmiao Sun**, Nanyang Technological University, Singapore.*Theoretical insights into water oxidation on spinel oxides* |
| **11:50** | **Anna Wilson**, Imperial College London, UK.*Investigating the origin and role of long-lived charges in photocatalyst sheets for solar driven hydrogen fuel production* |
| **12:05** | **Dr Mariam Fadel**, Université Grenoble Alpes, France.*NiOx-decorated GaP nanowires for solar fuels production* |
| **12:20** | **Sarah Sharp**, Royal Society of Chemistry, UK.*How to publish with impact* |
| **12:50** | **Summary, prize giving, and close** |