

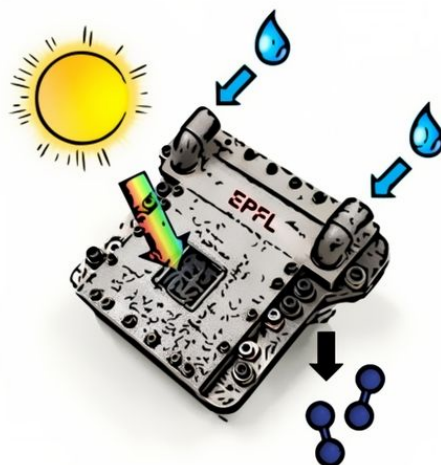
SOLAR2CHEM 1st NEWS

SOLAR2CHEM is a new Marie Skłodowska Curie Innovative Training Network (ITN) funded by the European Commission.

SOLAR2CHEM will train young researchers to fill the existing gap in the European industrial landscape in the area of solar chemicals production and usage in technical, economic and policy aspects.



SOLAR2CHEM's scientific aim targets the design and construction of photoelectrochemical (PEC) and photocatalytic reactors using hybrid photocatalysts to transform renewable resources such as sunlight, water, CO₂ and N₂ into solar chemicals including H₂, H₂O₂, CH₃OH and higher alcohols, NH₃, and the transformation of organic substrates as key intermediates for the pharmaceutical industry.



More information at www.solar2chem.eu

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SOLAR2CHEM Research Objectives

(RO1) To prepare hybrid (hy-)photoanodes for selective oxidation of substrates (water, alcohols and alkenes);

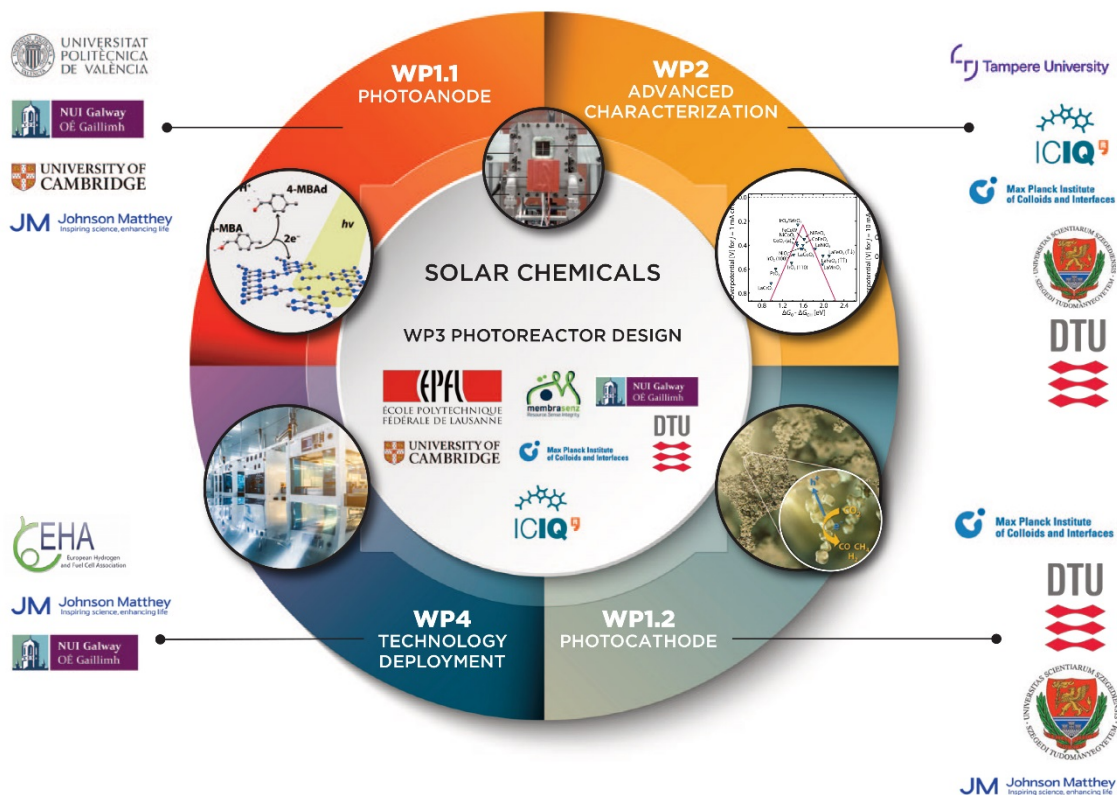
(RO2) To synthesise hy-photocathodes for H₂, CH₃OH and NH₃ production;

(RO3) To design hy-photocatalysts for simultaneous oxidation and reduction reactions of the targeted compounds;

(RO4) To fully study the photoelectrodes using advanced spectroscopic techniques and quantum chemical computations, such as ultrafast spectroscopy, 2D electron microscopy and x-ray synchrotron measurements;

(RO5) Design photoelectrochemical (PEC) and photocatalytic reactors combining the targeted photoelectrodes and photocatalysts, and optimise their performance for each chemical output; and

(RO6) Undertake a sustainability analysis to promote the technology at the European level and ensure an appropriate legal framework for its adaptation.



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SOLAR2CHEM consortium



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More information can be found at solar2chem.eu/consortium

SOLAR2CHEM 1st Newsletter

The project started in February 2020

We had a great plan for a kick-off meeting in Galway, Ireland, with the recruitment event for the ESRs.

However, COVID-19 appeared and we had to adapt to the current circumstances. Our first meeting went online on March 26th 2020 with an overview of the project and a comprehensive recruitment process for most of the ESR positions in SOLAR2CHEM.

More information on the selected ESRs will appear on the next newsletter, stay tuned!



The virtual meeting had the participation of all partners, but also representatives of partner organisations which will be delivering some of the transferable skills workshops.

A session with members of the Advisory Board served as introduction and setting the roles of its members.

The 2nd project meeting and 1st training workshops (*computational chemistry and public engagement*) will be online on November 4-6th.

Stay updated! [Solar2chem.eu/news-events](https://solar2chem.eu/news-events)