

SUSTAINABLE CHEMICALS WITH SUNLIGHT AND CO₂

Learn about our project and results

FlowPhotoChem research is on the EU's Innovation Radar

Six FlowPhotoChem partners are on the [EU Innovation Radar](#).

- Membrasenz: [Composite membranes based on reinforcement mats functionalized by inorganic salts and polymer binders for use in PEC and EC devices to produce green hydrogen and chemicals](#)
- HZB and eChemicles: [Electrochemical test cell for operando spectroscopic studies](#)
- SoHHytec and EPFL: [Integrated system demonstrator for the production of green ethylene](#)
- EPFL, DLR and eChemicles: [Integrated system demonstrator for the production of green ethylene 2](#)



A closer look at eChemicles: industry interview and overview



FlowPhotoChem partner [eChemicles](#) is part of a league of green companies capturing greenhouse gas and industrial emissions and reducing fossil fuel dependency to generate useful chemicals and materials.

The company focuses on developing and bringing groundbreaking electrolyser technologies to the market, enabling the chemical industry to reduce its environmental impact profitably. Read more [here](#).



FlowPhotoChem Coordinator
Dr. Pau Farràs Costa,
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WHAT IS FlowPhotoChem?

FlowPhotoChem is a multi-national, EU-funded research project developing new and better ways to manufacture chemicals using carbon dioxide (CO₂) and sunlight. There is great potential to replace much of the fossil fuels used today to make fuels and useful chemicals, by using solar energy and advanced catalysts to convert CO₂ into, for example, ethylene, as a precursor for plastics. FlowPhotoChem addresses the key challenges to achieving this – more effective solar light management, more efficient reactors, and more durable catalysts.

The project brings together many of Europe's leading R&D teams in this and related fields, from computer scientists and modellers to chemists, reactor designers and catalyst companies.

VISIT OUR WEBSITE WWW.FLOWPHOTOCHEM.EU



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Dissemination matters

FlowPhotoChem publications



Four FlowPhotoChem papers have been published since our November 2023 [newsletter](#). The recent papers come from partners at the University of Amsterdam and the University of Szeged.

Visit our website's [Publications page](#) and our [Zenodo](#) community to access these and our entire list of papers.

DLR hosts our plenary meeting

The FlowPhotoChem team assembled for our 7th plenary meeting in Cologne, Germany on the 16th-17th of May 2024.

Thanks to Dr. Michael Wullenkord at the [DLR Institute of Solar Research](#) for organising and hosting, and our scientific advisors Dr. Huyen Dinh and Dr. Max Fleischer for their valuable advice.



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