COmbined suN-Driven Oxidation and CO_2 Reduction for renewable energy storage

Timeline | 11/2020 to 10/2024

Overall Budget | 4,087,866.25 €

ICIQ's Budget | 448,118.75 €

ICIQ People | Llobet Research Group

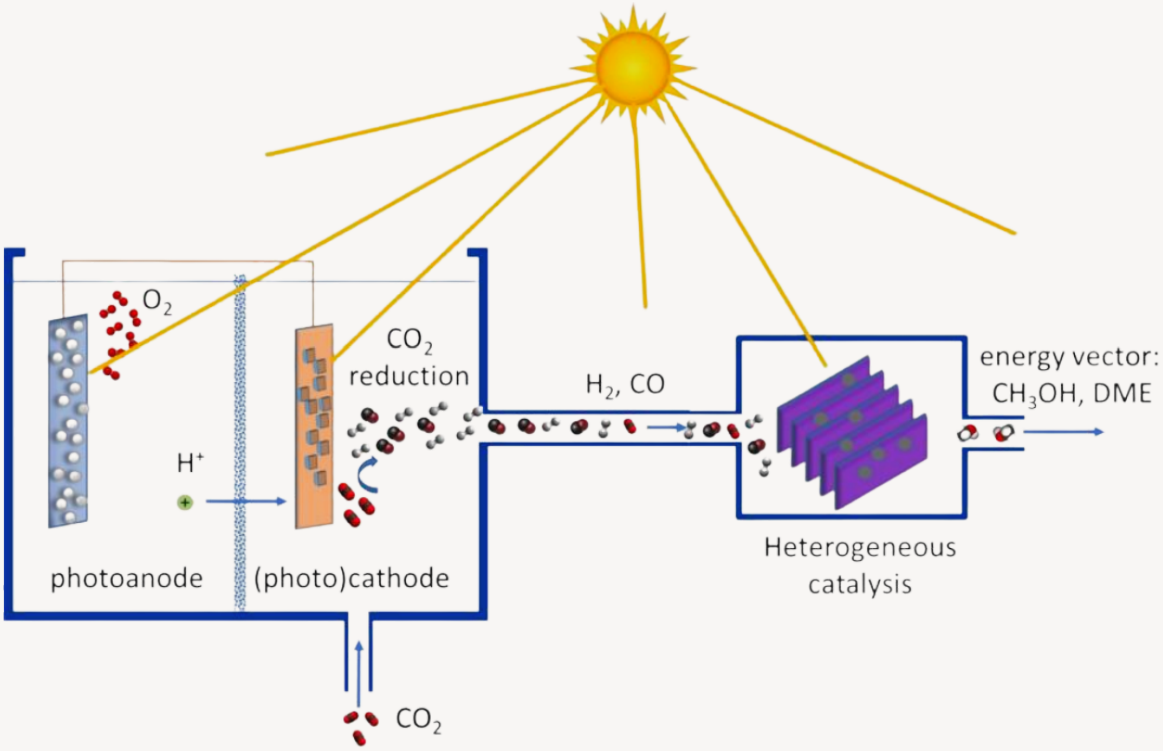
Website | https://condor-h2020.eu

Call | H2020-LC-SC3-2020-RES-RIA

SUMMARY

The production of solar energy helps us reduce our dependency on fossil fuels and thus mitigate global warming by lowering the emission of greenhouse gases. The EU-funded **CONDOR** project is addressing both of these challenges. It will develop a modular device for the production of fuels by using water and CO_2 as feedstock and sunlight as the only energy source. The proposed modular approach will allow for different configurations depending on the target product. The oxidation process is not limited to O_2 production, it entails chlorine and small organic molecules, such as 2,5-furandicarboxylic acid. Employed materials will be obtained from earth abundant chemical elements through low-energy/low-temperature routes.

"CONDOR proposes an innovative approach for developing highly efficient solar-driven conversion of CO_2 into fuels and added-value chemicals"



CONSORTIA

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