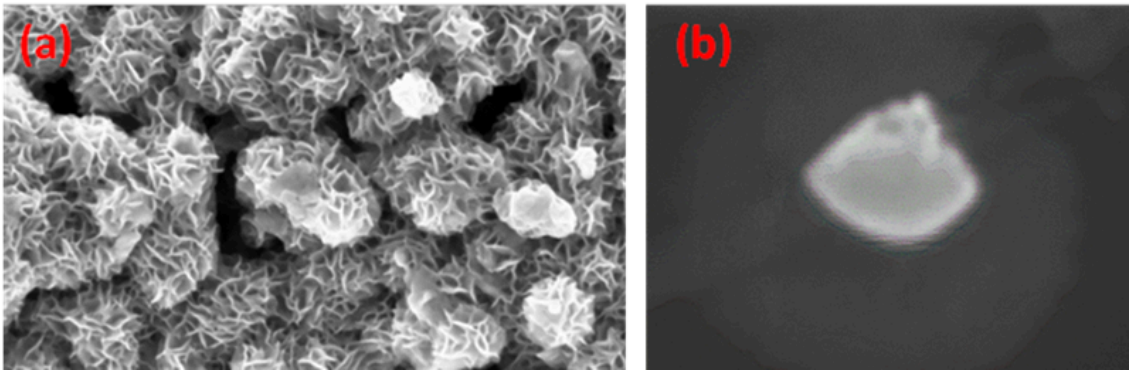
Welcome to the second issue of the PH2OTOGEN newsletter!

Dear PH2OTOGEN readers,

We're excited to bring you updates twice a year on our progress, innovations, and key milestones. Don't forget to follow PH2OTOGEN on X and LinkedIn to stay informed about the latest developments in green hydrogen technology.
Someone shared this newsletter with you? You can easily subscribe here to join our growing community.

Latest news

Green hydrogen production: PH2OTOGEN's progress in hydrogen evolving particles



In its first year, PH2OTOGEN has made significant strides in identifying sustainable alternatives to platinum for the **hydrogen evolution reaction (HER)**. Researchers are

exploring **molybdenum sulfides (MoS_x)**, a **promising, precious metal-free catalyst**, which shows excellent stability and performance when doped with elements like cobalt or nickel.

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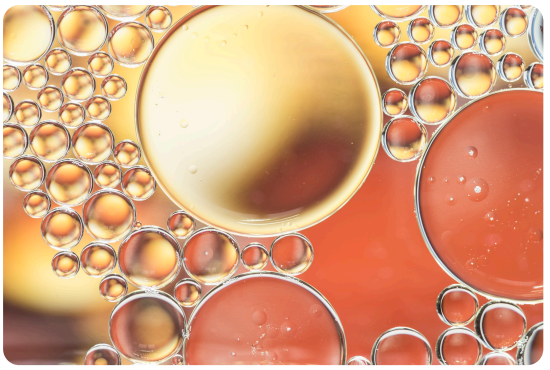
Turning glycerol into valuable: PH2OTOGEN's progress in oxidising particles



At PH2OTOGEN, we are redefining hydrogen production with combinations of innovative materials and processes. A cornerstone of this effort is the **oxidising particle**, a key component in our **light-driven system for converting glycerol into valuable products,** such as 1,3 dihydroxyacetone.

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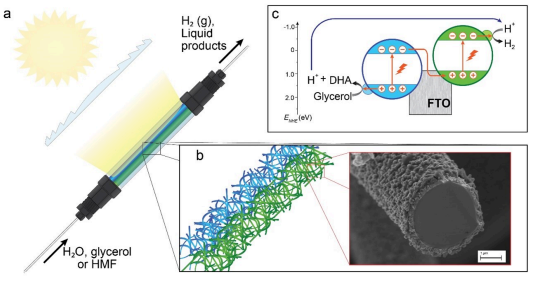
An optimised, robust, and scalable photocatalyst support

PH2OTOGEN researchers are advancing transparent, conductive, porous photocatalyst supports, aiming for significant improvements in robustness and scalability. Recent developments include **enhanced strength** and **successful medium-scale substrate production**.



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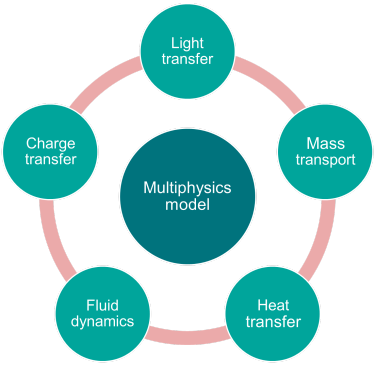
PH2OTOGEN's photoreactor design using multiphysics modelling



How can advanced multiphysics modelling optimise photoreactor systems for green hydrogen production? By understanding challenges like **light scattering, heat transfer, and fluid dynamics**, we are designing a more **efficient and scalable photoreactor**.

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Evaluating sustainability and costs in hydrogen production

Conducting detailed lifecycle assessments and cost analyses are essential to ensure hydrogen production is both environmentally sustainable and economically viable. By developing **robust inventories** and **addressing scalability challenges**, researchers are paving the way for greener energy solutions.

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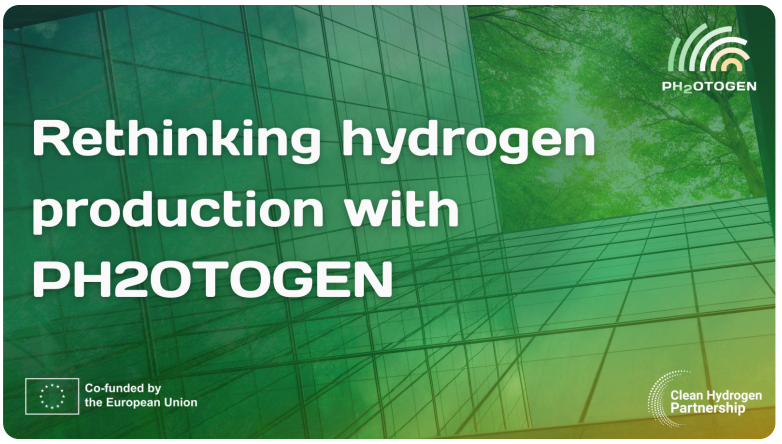
Communication and events



PH2OTOGEN's first awareness campaign

Maybe you've seen it recently on LinkedIn and X. PH2OTOGEN's new social media campaign highlights the biggest challenges in hydrogen production—safety, efficiency, stability, and economics—and showcases how the project is providing innovative solutions.

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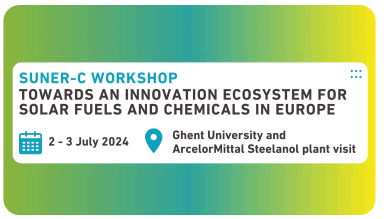

PH2OTOGEN presented at Suner-C workshop

PH2OTOGEN participated in the SUNER-C workshop, held on July 2-3, 2024, in Ghent, Belgium.

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