Welcome to the third 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.

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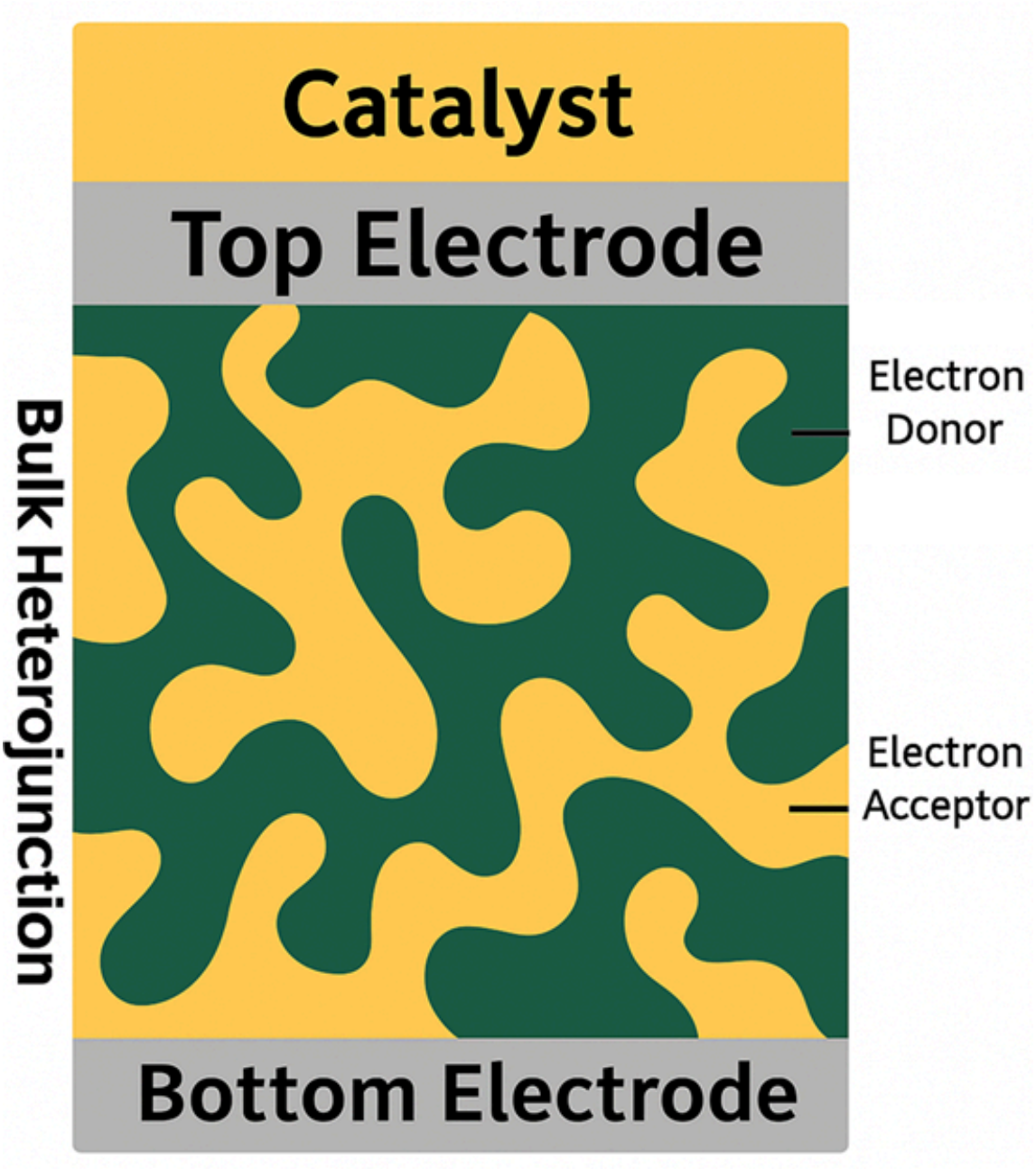
Latest news

The photoabsorber layer is necessary to generate excited electrons for the reduction of hydrogen from the incident light



The PH2OTOGEN demonstrator uses a photoabsorber layer consisting of organic semiconductor materials to capture light in the H2-evolving photocatalyst sheet. The selected materials are typically used in organic solar cells.

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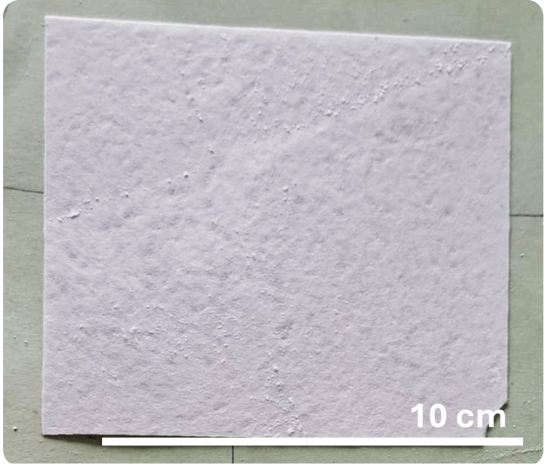
Scale up of the transparent, conducting, porous support



To demonstrate the PH2OTOGEN device concept, a robust, transparent, and porous substrate for the photocatalyst particles is needed. SiO_2 fibres, selected for their transparency and mechanical robustness, are processed to form a monolithic semi-transparent scaffold sheets over 100 cm^2 in area.

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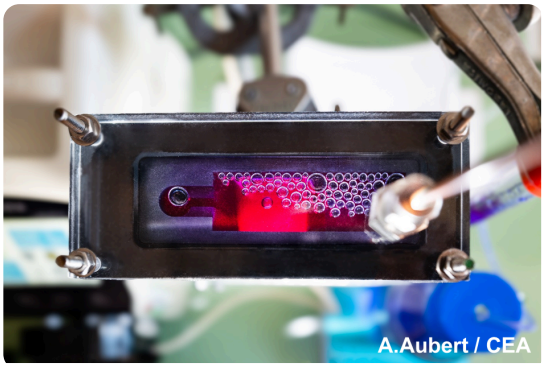
Utilising sunlight to produce green hydrogen from water while oxidising low-value organic molecules, such as glycerol, into valuable chemicals

We are now designing a first small-scale version of the photoreactor.

This first version will be able to accommodate active photocatalytic sheets of ~5 cm^2 and will allow us to test the feasibility of our process before scaling it up to 500 cm^2.



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VIDEO - New PH2OTOGEN publication (with OPH2ERA project) Interview with Marco Favaro

Watch

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