newsletter

No. 3

a-leaf

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News & Events

- The Science Museum of London features our partner Prof. Lloret-Fillol
- BIYSC 2017 – A Summer Project on Artificial Photosynthesis
- 1 Year of A-LEAF!

Deliverables

- D7.6. Data Management Plan Update
- D.7.9. Dissemination and Exploitation Plan Update
- D.7.12. Communication and Outreach Plan Update

Publications

- "Building Blocks for High Performance in Electrocatalytic CO_2 Reduction: Materials, Optimization Strategies and Device Engineering". *J. Phys. Chem. Letters* **2017**, *8*, 3933-3944.

1 year of A-LEAF!

The 12th month consortium meeting of A-LEAF took place in Castellón on February 14th and 15th. The groups of Juan Bisquert and Sixto Giménez hosted the meeting at the Institute of Advance Materials.

During the meeting all partners presented their advances in the different work packages of the project and the first design for the A-LEAF propotype was unveiled.

In addition, J. R. Galán-Mascarós coordinator of the project, announced two very important events: the European Commission has invited A-LEAF project to organise a seminar on artificial photosynthesis in Brussels on March 15h, and to write a blogpost "A-LEAF under the sun".

Finally, it was agreed that the next meeting will take place in Darmstadt, in 6 months.

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Publications

- "Sulfur-Modified Copper Catalysts for the Electrochemical Reduction of Carbon Dioxide to Formate". *ACS Catal*. **2018**, 8, 837-844.

- "The Impact of Different Si Surface Terminations in the (001) n-Si/NiOx Heterojunction on the Oxygen Evolution Reaction (OER) by XPS and Electrochemical Methods". *J. Electrochem. Soc.* **2018**, *165*, H3122-H3130

- "Water Interaction with Sputter-Deposited Nickel Oxide on n-Si Photoanode: Cryo Photoelectron Spectroscopy on Adsorbed Water in the Frozen Electrolyte Approach". *J. Electrochem. Soc.*, **2018**, *165* H3148-H3153

Very interesting!

A-LEAF under the sun

A-LEAF project has recently been invited to post an entry in the blog of the European Comission website: Digital Single Market (February 16th). J. R. Galán-Mascarós explains how A-LEAF aims to contribute to the discovery of efficient and affordable techniques to completely substitute fossil fuels.

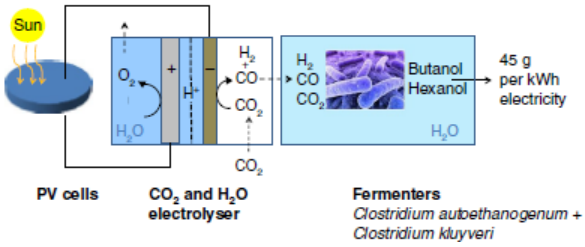
ICREA RESEARCH PROFESSOR AT THE INSTITUTE OF CHEMICAL RESEARCH OF

Jose Ramon Galan-Mascaros

Digital Single Market

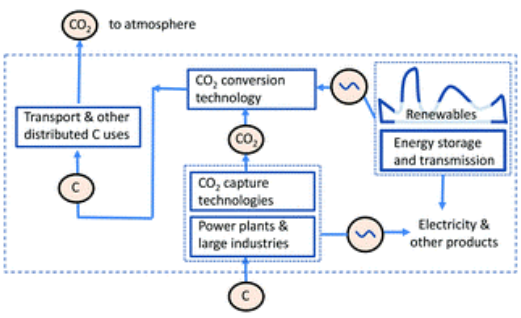
An artificial leaf to capture the sun? Solar Fuels will transform our society's energy use

- Technical photosynthesis involving CO_2 electrolysis and fermentation. *Nature Catalysis*, **2018**, *1*, 32-39



DOI: 10.1038/s41929-017-0005-1

- On the climate change mitigation potential of CO_2 conversion to fuels. *Energy Environ. Sci.*, **2017**, *10*, 2491-2499



DOI: 10.1039/C7EE02819A

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