

47. IUPAC meetings in Paris

Start Time: Friday, July 5, 2019 09:00 am

End Time: Friday, July 12, 2019 05:00 pm

Paris, France

We are delighted to announce the symposium
[Turning Solar Energy to Fuels via Artificial Photosynthesis](#)

during the [47th IUPAC meeting](#) in Paris July 5-12 2019

in the topic area [Chemistry and Energy](#)

Abstracts are accepted until March 1 2019

Please share the news with your group and partners.

[Turning Solar Energy to Fuels via Artificial Photosynthesis](#)

On the path to an energy transition away from fossil fuels to sustainable sources, scientific breakthroughs must be achieved. One main objective is to produce solar fuels from solar energy and water to accomplish the efficient storage of solar energy in a chemical form. This is a grand scientific challenge. One important approach to achieve this goal is Artificial Photosynthesis, a discipline which nowadays gathers materials science (Photo-ElectroChemical processes), molecular sciences (antenna systems, light-driven electron transfers and bio-inspired catalysts) and biological sciences (photosynthesis and multi-electron metalloenzymes) through the use of common concepts (light harvesting, electron transfer, electrocatalysis, reaction mechanisms) and tools (nanosciences, electrochemistry, photochemistry, advanced spectroscopy and theoretical chemistry).

This 2.3 symposium is divided into three sessions, each dedicated to one of the main approach of solar fuels production:

- the first one will deal with advances in multi-electron multi-proton electrocatalysis (H₂ evolution, CO₂ reduction, water oxidation...) including mechanistic studies and

operando measurements

- the second one will address the challenge of designing cheap, efficient and stable direct solar energy conversion into chemicals in Photoelectrochemical cells
- the third one will be dedicated to molecular and biomolecular approaches of artificial photosynthesis.

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Organizer