**POST-DOC POSITION**

Institute: Laboratory of Photonics and Interfaces (LPI), Ecole Polytechnique Federale de Lausanne, Switzerland.

Laboratory Director: Prof. Michael Grätzel

**Job Description:** We are looking for a talented and motivated postdoc candidate to pursue research in designing photoelectrochemical devices for artificial photosynthesis. The project, funded by EU H2020, aims at developing Cu2O-based photocathodes with co-catalysts for efficient conversion of CO2 to ethylene and understanding the interface using the state-of-the-art techniques. The duration of the project is three years with the expecting starting date of May 1, 2020.

**Requirements:** The candidate should hold a Ph.D. degree in Chemistry, Materials Science, Chemical Engineering or other related disciplines. Demonstrated experience in photoelectrochemistry or electrocatalysis is a must. The candidate should enjoy teamwork and be willing to collaborate among the group members. English is the working language.

**How to apply:** Interested candidates should send a CV and three representative publications (reprint) in pdf format via email to dan.ren@epfl.ch before 31st January. Only shortlisted candidate will be contacted and scheduled for interview.

**About LPI:** The main focus of research at LPI is on photo-systems that generates electric power or fuels from sunlight. The great majority of devices examined in our laboratories employs mesoscopic structures composed of nano sized particles as a key substrate element. In fact, it was the Grätzel’s group at LPI that pioneered the use of such mesoscopic architectures for the solar production of electricity and fuels.

**The solar fuel sub-group** in LPI is interested in developing efficient photoelectrodes and electrocatalysts for converting small molecules such as H2O and CO2 to value-added products including H2, CO, C2H4 and ethanol. Apart from electrode/catalyst design and system engineering, employing the state-of-the-art operando Raman spectroscopy and operando synchrotron techniques to gain the mechanistic insights into the electrode/electrolyte interfaces is also our research interest.