

Séminaire ICGM/CMOS du Mercredi 20 Mars 2018 à 10h30

Polytech, salle SC002

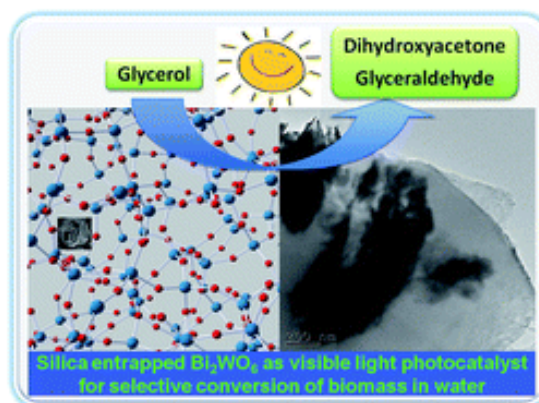
Sol-Gel Nanochemistry Enabling Solar Chemistry

Mario Pagliaro



Long sought-after solar chemistry, namely the use of solar light to drive synthetic processes in the chemical industry as it happens with Nature's photosynthesis, is becoming a reality.

New visible-light photocatalytic processes are eventually being adopted, almost a century after the promising industrial debut, in 1943 in Germany, of the production of the anthelmintic drug ascaridole via solar irradiation of α -terpinene. Sol-gel glasses, we argue in this lecture, will play an eminent role in this transition.



Mario Pagliaro is a chemistry and energy scholar based in Palermo, Italy, where he leads a research Group focusing on nanochemistry, sustainability and the bioeconomy. He ranks amongst Italy's most cited scientists in nanotechnology and materials chemistry. In recognition of his "significant contributions to the chemical sciences" in 2014 he was designed Fellow of the Royal Society of Chemistry. The achievements of his Group's research developed in co-operation with leading researchers based in 20 countries include numerous important advances reported in over 200 frequently cited research papers. He has authored or co-authored 21 books.