

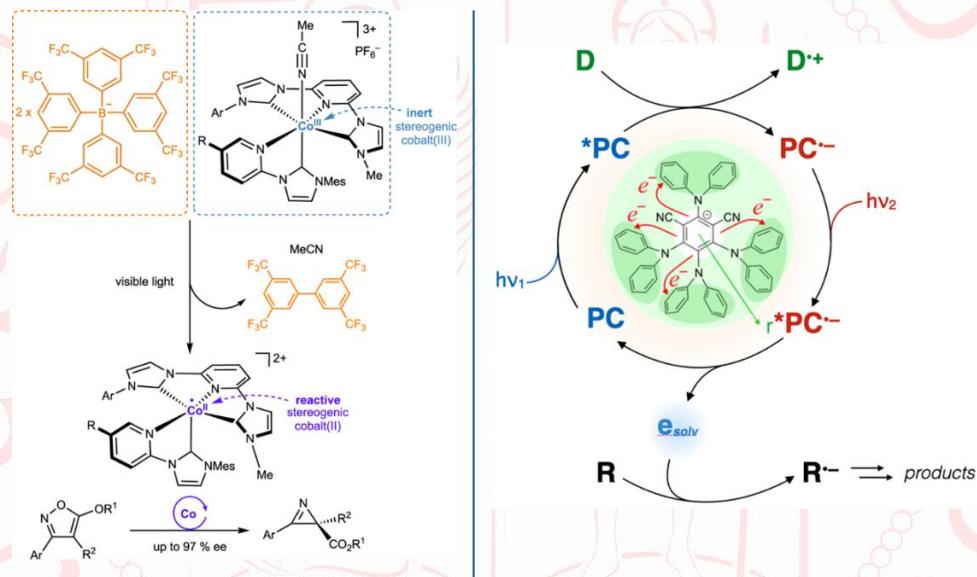
Venerdì 16 Gennaio 2026 alle ore 15:00 presso l'aula G

il Dr. Marco Villa

Dipartimento di Chimica "Giacomo Ciamician", Università di Bologna

terrà il seminario dal titolo:

Photocatalysis: A Journey into the Photochemical Mechanism



The use of light to speed up chemical reactions or to drive chemical transformations that are endergonic in the dark is known since the origin of photochemistry. The last decade has evidenced an impressive growth in the number of studies using visible light to promote organic reactions. In most cases, photocatalysts are involved in electron transfer processes, since electronically excited states are both better oxidants and better reductants.

In the present contribution will be presented a chiral photocatalysts based on Co(III) metal complex for asymmetric photocatalysis, as well as on organic chromophores for solvated electron generation. These photogenerated solvated electrons are responsible for the exceptional reducing power of these photocatalytic systems. Steady state and time-resolved photochemical experiments will be discussed in terms of the elucidation of the reaction mechanism. The use of super-reducing photocatalysts and the corresponding mechanism will be presented.

La presenza della S. V. sarà molto gradita

Organizzatore
Marco Fantin

Il Direttore del Dipartimento
Stefano Mammi