

IN²UB INTERNATIONAL RESEARCH SEMINARS

Molecular Approaches to Energy Conversion

During my lecture I will present our latest results on the characterization of different type of solar cells from DSSC and OPV to MAPI using advanced photo-induced time resolved techniques. Using PICE (Photo-induced charge extraction), PIT-PV (Photo-induced Transient PhotoVoltage) and other techniques, we have been able to distinguish between capacitive electronic charge, and a larger amount of charge due to the intrinsic properties of the perovskite material. Moreover, the results allow us to compare different materials, used as hole transport materials (HTM), and the relationship between their HOMO and LUMO energy levels, the solar cell efficiency and the charge losses due to interfacial charge recombination processes occurring at the device under illumination. These techniques and the measurements carried out are key to understand the device function and improve further the efficiency and stability on perovskite MAPI based solar cells.



The IN²UB invites you to the seminar by

Prof. Emilio Palomares

Director of Institute of
Chemical Research
of Catalonia
(ICIQ)-BIST, Spain

SAVE THE DATE

March 25th, 2021 at 12.00h.

Telematic session by *BB Collaborate*

[\(Link&Instructions\)](#)



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