IN²UB INTERNATIONAL RESEARCH SEMINARS

Halide Perovskite Materials for Optoelectronic and Photochemical Applications

Halide perovskite solar cells have revolutionized the photovoltaic field in the last decade. The key point of this success is the low non-radiative recombination that make this family of materials extremely successful not just for photovoltaics but for other optoelectronic and photochemical applications. In this talk I will discuss the work of my group in this field stressing our approach to face the two more important drawbacks for halide perovskite application, the use of hazardous Pb and the longterm stability, that still to be open questions that have not been fully addressed. Sn-based perovskite solar cells exhibit a longterm stability lower than their Pb containing counterparts, making stability their main problem. We will highlight how the use of proper additives can increase significantly the stability of formamidinium tin iodide (FASnI3) solar cells and discuss about the different mechanism affecting this stability.

The IN²UB invites you to the webinar by

Prof. Iván Mora Seró

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SAVE THE DATE

June 30th, 2022 at 12.00h.

Institut de Nanociència i Nanotecnologia

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Sponsored by PhD program on Nanoscience UB

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