

Seminar #2.3
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*Supramolecular interactions in
halide perovskite solar cells*

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Halide perovskites are quickly overrunning research activities in new materials for cost-effective and high-efficiency photovoltaic technologies. Since the first demonstration from Kojima and co-workers in 2009, several perovskite-based solar cells have been reported and certified, rapidly improving power conversion efficiency. Recent reports demonstrate that perovskites can compete with the most efficient photovoltaic materials. Simultaneously, they still allow processing from solution as a potential advantage to deliver a cost-effective solar technology.

In the present talk, we will present new materials and preparation procedures that improve perovskite solar cells' lifetime without giving up on high power conversion efficiency. We will pay particular attention to the new materials' environmental impact, providing our prospect for future research investments.



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