MAPbI₃ Perovskite Solar Cells Fabricated by Low-Temperature Reaction of Iodine (I₂) with MAI and Pb Layered Films

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Introduction

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Goals

The demand for new methods to reduce the manufacturing cost and to increase the efficiency has triggered our interest to study the Perovskite absorbers layers and solar cells fabricated by a novel "reactive polyiodide melt" (RPM) method, which was jointly developed by an international team including AIST/CEREBA and MSU/EPFL.

We will describe the "reactive polyiodide melt" (RPM) method and characterize the absorber layers fabricated by this method.

We will fabricate and characterize Perovskite solar cells.

We will demonstrate that this method is suitable for the fabrication of large area PVs.

