Optimization of Lead-free Organic-inorganic Tin(II) Halide Perovskite Semiconductors by Scanning Electrochemical Microscopy

Hsien-Yi Hsu^{†§}, Li Ji^{†‡§}, Minshu Du[†], Ji Zhao[†], Edward T. Yu[‡] and Allen J. Bard^{*†}

Supporting Information



Figure S1. Current density of unencapsulated p-MASnI_{0.5}Br_{2.5} and p-MASnI₃ perovskite PEC solar cells in ambient atmosphere. The MASnI_{0.5}Br_{2.5} and p-MASnI₃ photoelectrodes was irradiated by a 150 mW/cm² Xe lamp. The optical path through the solution was about 0.3 mm.



Figure S2. Normalized efficiency of sealed p-MASnI_{0.5}Br_{2.5} and p-MASnI₃ perovskite PEC solar cells under Ar. The MASnI_{0.5}Br_{2.5} and p-MASnI₃ photoelectrodes was irradiated by a 150 mW/cm² Xe lamp. The optical path through the solution was about 0.3 mm.



Figure S3. Current density of sealed p-MASnI_{0.5}Br_{2.5} and p-MASnI₃ perovskite PEC solar cells under Ar. The MASnI_{0.5}Br_{2.5} and p-MASnI₃ photoelectrodes was irradiated by a 150 mW/cm² Xe lamp. The optical path through the solution was about 0.3 mm.