

Influence of Moisture on the Preparation, Crystal Structure, and Photophysical Properties of Organohalide Perovskites[†]

Kelsey K. Bass,^a R. Eric McAnally,^a Shiliang Zhou,^a Peter I. Djurovich,^a Mark E. Thompson,^a Brent C. Melot^{a*}

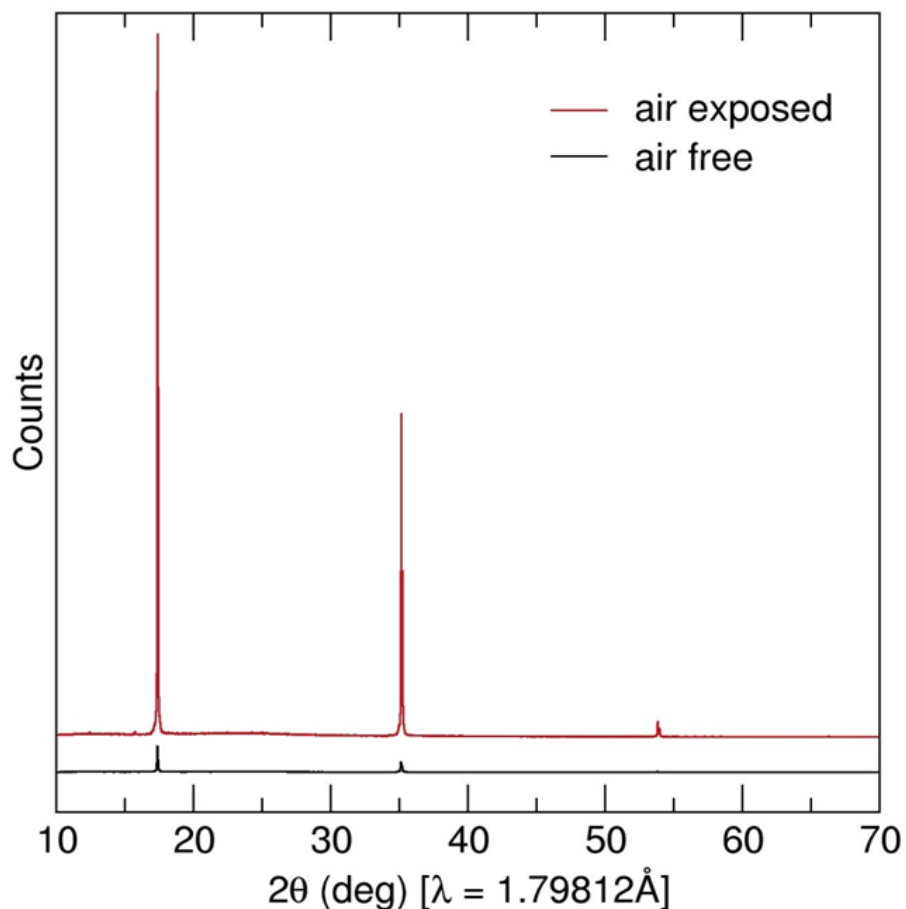


Fig. 1 Comparison of laboratory powder diffraction data for air free and air exposed $\text{CH}_3\text{NH}_3\text{PbBr}_3$ prepared/characterized under inert atmosphere (black line) and exposed to ambient atmosphere (red line).

^a Department of Chemistry, University of Southern California, Los Angeles, CA 90089 E-mail: melot@usc.edu

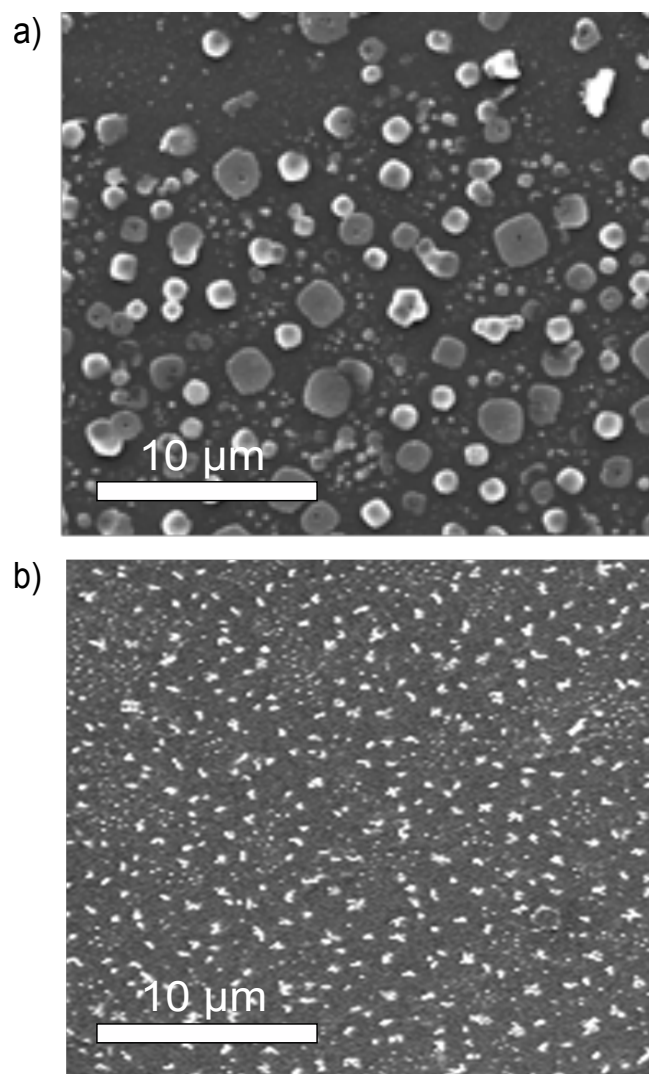


Fig. 2 Scanning electron microscope images for 10 wt % $\text{CH}_3\text{NH}_3\text{PbBr}_3$ in DMF films spin-cast under (a) inert atmosphere and (b) in ambient atmosphere.