## Supporting Information

## Zero-dimensional methylammonium bismuth iodide based lead-free perovskite capacitor

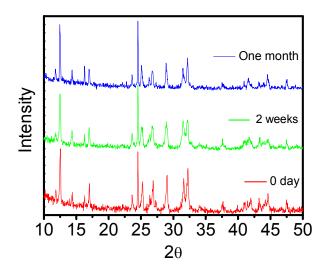
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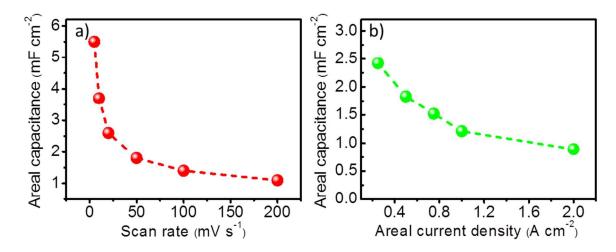
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## 1. Stability study of MBI:



**Figure S1.** Powder X-ray diffraction pattern of MBI over a period of 1 month. The sample was kept at ambient conditions. No change in peak intensity and position indicates the excellent stability of the material.



## 2. Electrochemical measurements:

Figure S2. Variation of areal capacitance with a) scan rate and b) areal current density.