## Improved Air-Stability of Organic-inorganic Perovskite with Anhydrously Transferred Graphene

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**Figure S1.** Schematic illustration of anti-solvent method to fabricate smooth perovskite thinfilm.



**Figure S2.** The optical images of perovskite thin film on FTO glass substrate (a) has a mirror effect (b). The mirror effect displays the uniform surface of perovskite thin film. The scale bar is 1 cm.



**Figure S3.** Normalized absorbance at 500 nm of perovskite films coated by 0/1/2/3LG. The films are exposed to moisture for 10 h.

