

Electronic Supplementary Information

Using imidazolium in the construction of hybrid 2D and 3D lead bromide pseudoperovskites

Gonzalo García-Espejo ¹, Konstantis F. Konidakis, ^{1*} Antonietta Guagliardi ², and Norberto Masciocchi ^{1,*}

¹ Dipartimento di Scienza e Alta Tecnologia and To.Sca.Lab, Università dell'Insubria, via Valleggio 11, 22100 Como (Italy)

² Istituto di Cristallografia and To.Sca.Lab, Consiglio Nazionale delle Ricerche, via Valleggio 11, 22100 Como (Italy)

* Authors to whom correspondence should be addressed.

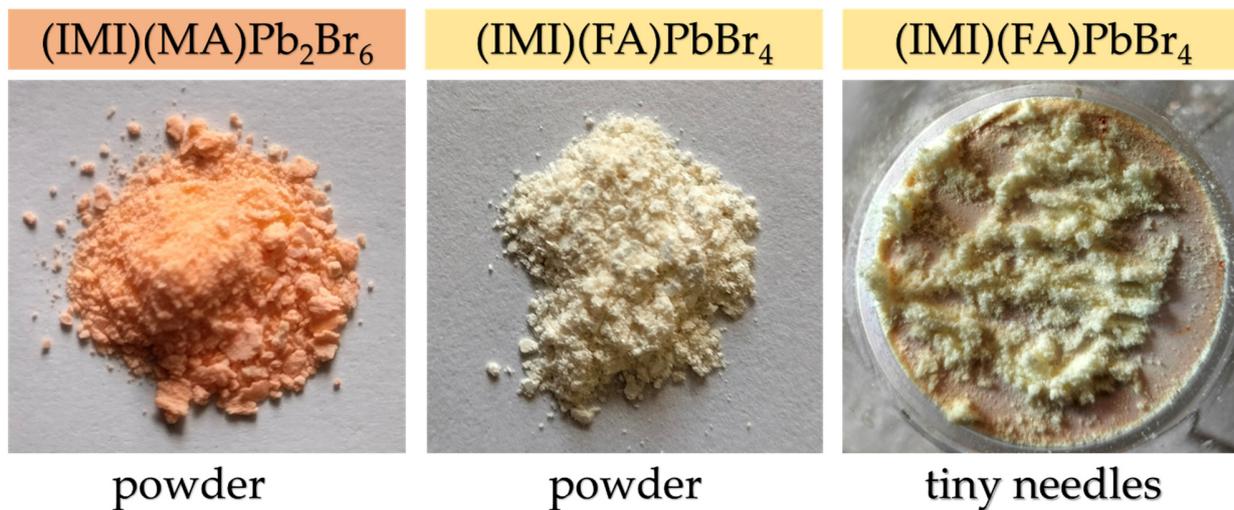


Figure S1. Optical images of the prepared samples.

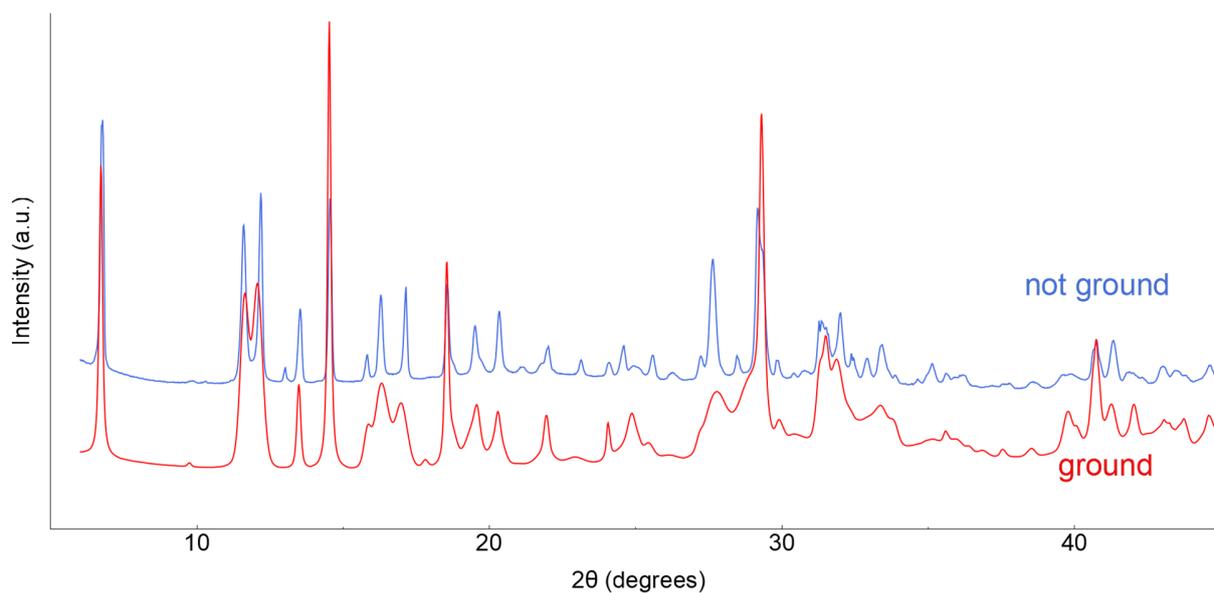


Figure S2. XRPD pattern of pristine (blue) and gently ground (red) (IMI)(FA)PbBr₄ (2) showing partial and anisotropic degradation of the crystals.

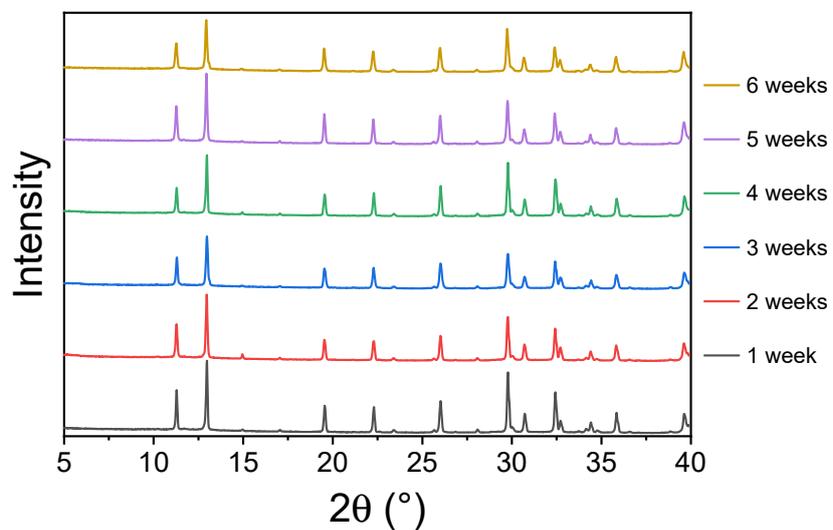


Figure S3. XRPD measurements of a powder sample of (IMI)(MA)Pb₂Br₆ (**1**) exposed to environmental air, humidity and light, in the course of 6 weeks.

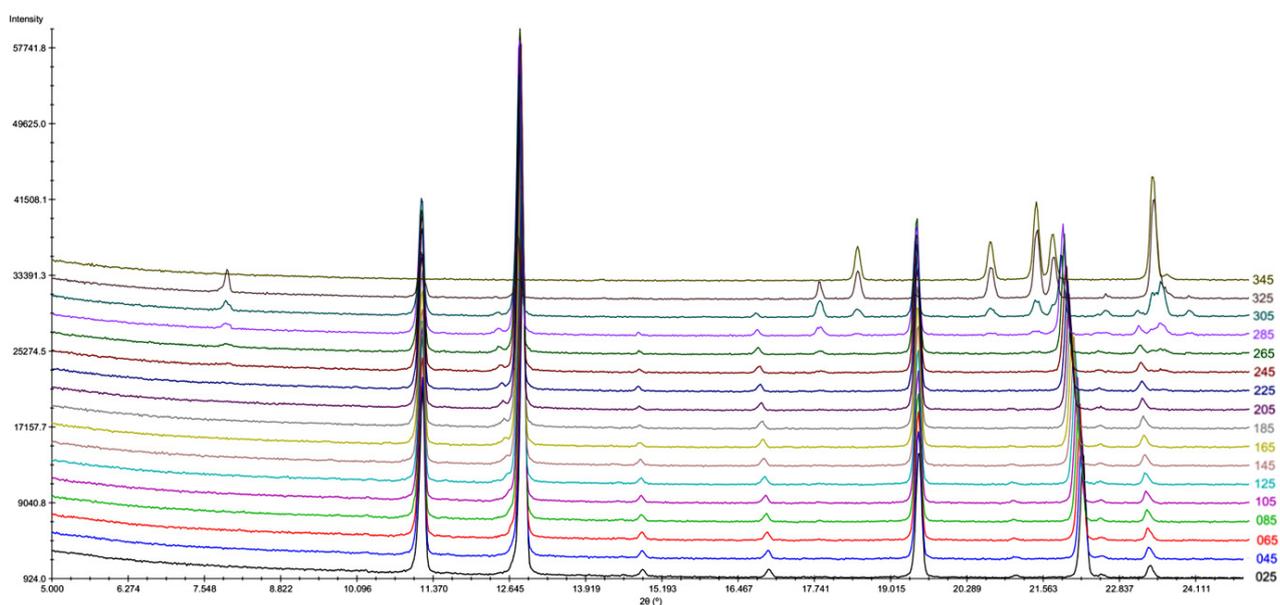


Figure S4. VT-XRD patterns for (IMI)(MA)Pb₂Br₆ (**1**) in the 25 – 345 °C range.

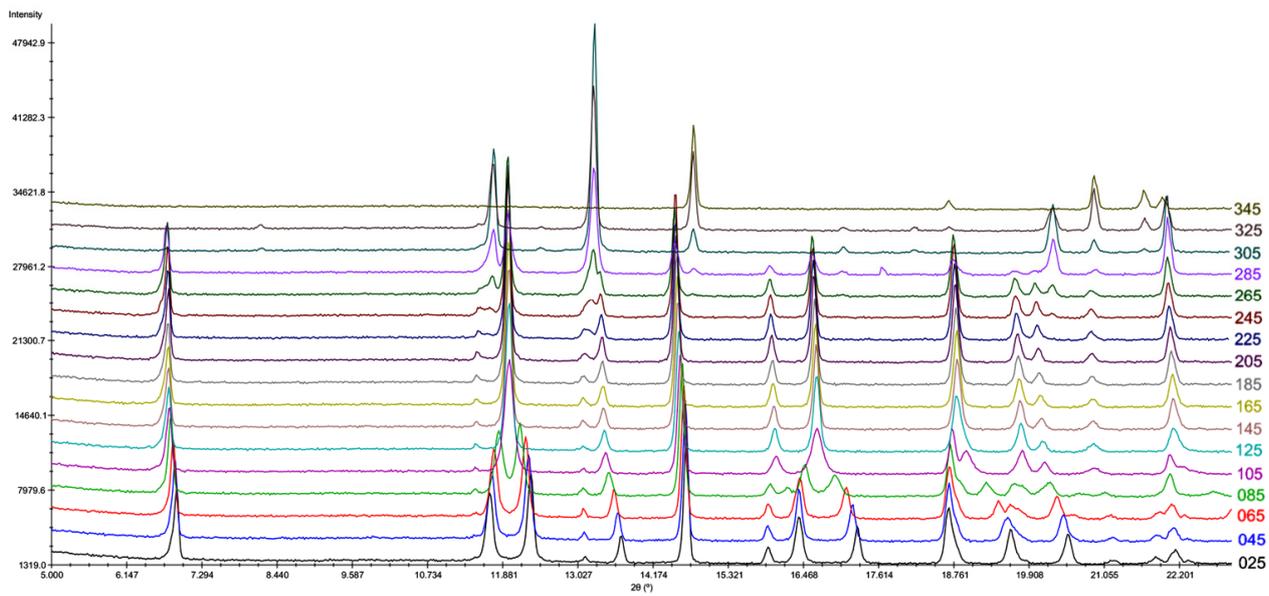


Figure S5. VT-XRD patterns for (IMI)(FA)PbBr₄ (2) in the 25 – 345 °C range.